

**Joseph A. Konstan**  
Distinguished McKnight University Professor  
Distinguished University Teaching Professor  
Department of Computer Science and Engineering

Associate Dean for Research  
College of Science and Engineering

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### *Curriculum Vitae*

## Education

Ph.D. in Computer Science	University of California, Berkeley	1993
M.S. in Computer Science	University of California, Berkeley	1990
A.B. in Computer Science	Harvard University	1987

## Professional Experience

Associate Dean for Research	College of Science and Engineering	2019-
Professor (with tenure)	University of Minnesota	2005-
Distinguished McKnight University Professor		2009-
Distinguished University Teaching Professor		2010-
Also appointed as Adjunct Professor of Epidemiology and Community Health		2007-2017
Associate Department Head		2008-2015
co-Director, Social Media and Business Analytics Collaborative (SOBACO)		2012-2016
Director, GroupLens Center for Social and Human-Centered Computing		2016-2018
Associate Professor (with tenure)	University of Minnesota	1999-2005
Assistant Professor	University of Minnesota	1993-1999
Consulting Scientist	Net Perceptions, Inc.	1996-2000
Instructor	University of Minnesota	1992-1993
Research Assistant	University of California, Berkeley	1988-1992
Teaching Assistant	University of California, Berkeley	1988-1992
Instructor	Harvard Summer School	1987-1988
Teaching Assistant	Harvard University	1985-1987

## Research Interests

Human-computer interaction, social computing, collaborative information filtering, online communities, medical and health applications of Internet technology. Former interests include: multimedia systems, scientific visualization, interface toolkits and frameworks.

## Awards & Honors

### National/International Recognition

ACM SIGCHI Lifetime Service Award	2013
IEEE Fellow	2013
AAAS Fellow	2011
ACM Software Systems Award	2011
CHI Academy	2011
ACM Fellow	2008
ACM Distinguished Scientist	2006
IEEE Senior Member	2006
IEEE Distinguished Visitor	2003-2005
National Science Foundation CAREER Grant	1998-2003
ACM Distinguished Lecturer	1997-2006
National Science Foundation Research Initiation Award	1994-1998
National Defense Science & Engineering Graduate Fellowship	1989-1992

### Best Paper and Lasting Impact Awards

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SIGIR Test of Time Award (SIRIR '99 paper)	2017
AAAI Classic Paper Honorable Mention (AAAI-99 paper)	2017
WWW Seoul Test of Time Award (high-significance paper in history of WWW)	2016
James Chen Award (Best Paper in <i>UMUAI</i> journal)	2012
Best Student Paper (advisees), UMAP 2011	2011
Best Student Paper (advisees), User Modeling 2003	2003
Best Paper. Usenix Tcl/Tk Workshop	1996
Best Experience Paper, OOPSLA '91	1991
<b>University of Minnesota Awards</b>	
George Taylor / CSE Alumni Society Award for Distinguished Teaching	2013
Award for Outstanding Contributions to Postbaccalaureate, Graduate, and Professional Education (Academy of Distinguished Teachers)	2010
Distinguished McKnight University Professor	2009
George Taylor Career Development Award	1999
Bush Foundation Advanced Seminar on Teaching Excellence	1995
President's Distinguished Faculty Mentor	1994-1997
Bush Foundation Project for Teaching Excellence	1993-1994
<b>University of California, Berkeley Awards</b>	
Outstanding Graduate Student Instructor Award	1992
Demitri Angelakos Award (service to department)	1991
California Fellowship in Microelectronics	1987-1988

## Interdisciplinary Affiliations

Co-Director SOBACO (Social Media Business Analytics Collaborative) (2012-2016)  
Organizing Chair of Interdisciplinary Graduate Group in Social Computing (2010-2014)  
Adjunct Professor of Epidemiology and Community Health, U of M School of Public Health (2007-2017)  
Affiliate Member of the Graduate Faculty of Rhetoric (since 2007)  
Member of Graduate Faculties of Human Factors, Software Engineering (Director of Graduate Studies, 1999-2001)  
Member of Center for Cognitive Sciences, Internet Studies Center

## Professional Activities

### Professional Recognition

ACM (Fellow); IEEE (Fellow), AAAS (Fellow), ACM SIGCHI (Academy Member).

### Society Offices and Leadership Positions

#### **ACM: Association for Computing Machinery**

Executive Committee Member (2006-2008)  
Member of Council (board of directors) (2006-2008; 2009-2011; 2012-2019)  
SIGCHI: Special Interest Group on Computer-Human Interaction (approx.. 4500 members; 17 conferences/yr)  
President (2003-2006); Executive Committee (1999-2009)  
Special Interest Group Governing Board (oversees all ACM SIGs and conference policies)  
Chair (2006-2008); vice-Chair for Operations (2004-2006); Executive Committee (2004-2013)  
Membership Services Board  
Vice-Chair (2004-2006)  
Publications Board (oversees ACM's 43 journals, 8 magazines, digital library, publications policies, etc.)  
co-Chair (2013-2019)  
Member (2010-2019)  
Fellows Selection Committee (2016-2019)  
SIGMultimedia: Special Interest Group on Multimedia  
Executive Committee (1999-2007)  
Twin Cities local chapter of SIGCHI  
co-founder; Treasurer (1997-1998); President (1998-1999)  
Task Forces and Special Projects  
Task force on the the future of ACM-W (committee on women in computing) (2006-2007)  
Task force on the future of the *Journal of the ACM* (2011-2012)  
Task force on ACM's future directions in Health and Medical Informatics (chair) (2011-2012)

Strategic Planning Workgroup (2013-2014)  
CHI 2030 Visioning Task Force (co-Chair, 2019)

**Federal Demonstration Partnership** (partnership of grantee organizations and federal agencies)

Vice-Chair and elected Faculty Representative (2005-2007)  
University of Minnesota Faculty Representative (2003-2008); alternate representative 2008-2019

**Editorships and Editorial Boards**

Editor of *SIGCHI Bulletin* (1999-2003)  
Associate Editor of *ACM Transactions on Social Computing* (2015-)  
Associate Editor of *ACM Transactions on Computer-Human Interaction* (2012-2013)  
Associate Editor of *ACM Transactions on the Web* (since 2012-2013)  
Member of the Editorial Board of the journal *Foundations and Trends in Human-Computer Interaction* (2012-2015)  
Member of the Editorial Board of the journal *User Modeling and User Adapted Interaction* (2002-2013)  
Member of the Editorial Board of the *International Journal of Human-Computer Interaction* (2008-2010)  
Member of the Editorial Board of ACM/Springer Verlag journal *Multimedia Systems* (2001-2004)  
Member of the Editorial Board of the *Journal of Computer-Mediated Communication* (1996-2003).

**Conference and Program Committees**

**Conference Chair**

Dagstuhl Perspectives Workshop on Building a Predictive Science for IR/RecSys/NLP Performance (co-chair, 2017)  
Social Computing: NSF- and ACM-sponsored workshop on Social Computing research (2013)  
CHI 2012: ACM SIGCHI Conference on Human Factors in Computing Systems (2012)  
RecSys 2007: First ACM Conference on Recommender Systems (2007)  
UIST 2003: ACM Symposium on User Interface Software and Technology (2003)  
ITEL: U of M President's 21<sup>st</sup> Century Interdisciplinary Conference on Information, Technology, and Everyday Life (1995)

**Program co-Chair**

CSCW 2016: ACM Conference on Computer-Supported Cooperative Work (2016)  
UMAP 2011: 19<sup>th</sup> Conference on User Modeling, Adaptation, and Personalization (2011)  
ACM Multimedia 2000  
Usenix Tcl/Tk Workshop 1997

**Conference Steering Committee**

RecSys: ACM Recommender Systems Conference (since inception in 2007)  
CHI: ACM Conference on Human Factors in Computing Systems (since inception in 2016)  
IHI 2010: First ACM International Health Informatics Symposium (2010)  
SocialCom-10: Second IEEE International Conference on Social Computing (2010)

**Program Committee (or Papers Review Committee)**

ACM Turing Award 50<sup>th</sup> Anniversary Conference  
ACM CSCW 2014 (also co-chair of best papers committee); 2016 (co-chair)  
ACM Symposium on Principles of Database Systems (PODS) 2013  
CHI (1995 – 2011; 2013; Associate Chair in 2004)  
UMAP, User Modeling, Adaptive Hypermedia (2019, 2018, 2017, 2015, 2011, 2010, 2009, 2008, 2007, 2005; co-chair in 2011)  
ACM Recommender Systems 2019 (Senior PC), 2018 (Senior PC), 2017 (Senior PC), 2016 (Senior PC), 2014 (Senior PC), 2011 (Senior PC), 2010 (Senior PC); 2009 (single PC), 2008 (single PC)  
ACM UIST (2005, 2003, 2000, 1999)  
International Conference on Weblogs and Social Media 2014 (Senior PC), 2013 (Senior PC)  
CHI Basic Research Symposium (co-Chair 1998; member 1999, 1997, 1996)  
ACM Conference on Universal Usability 2000 (Associate Chair)  
ACM Multimedia (2000 – co-Chair; 1999 and 1998 – Associate Chair)  
ACM IUI 1999  
AAAI 2010  
International Conference on Autonomous Agents 2000  
IEEE SocialCom 2009  
WWW 2017 (senior PC), 2009, 2006  
HCI Educators Conference 2007

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NordiCHI (2008, 2006, 2004)

IEEE ICDM 2003

Interact (2009, 2003)

InfoVis 2003

#### Workshops on Recommender Systems

RecSys 2014 Joint Workshop on Interfaces and Human Decision Making for Recommender Systems (IntRS 2014)

4<sup>th</sup> International Workshop on Social Recommender Systems (in conjunction with WWW2013)

ACM RecSys'12 Workshop on Interfaces for Recommender Systems

ECAI 2008 Workshop on Recommender Systems

AAAI 2007 Workshop on Recommender Systems

AAAI 2006 Workshop on Intelligent Techniques for Web Personalization

Beyond Personalization Workshop at IUI 2005 (co-chair)

CHI 99 Workshop on Recommender Systems

SIGIR 99 Workshop on Recommender Systems

AAAI 98 Workshop on Recommender Systems

#### Other Workshops

Social Navigation and Community-Based Adaptation Technologies Workshop at Adaptive Hypermedia 2006

CHI 2000 Workshop on Social Navigation

#### Doctoral Symposia/Consortia

RecSys 2016 (co-Chair)

CHI 2013 (faculty member)

RecSys 2012 (committee member)

NSF SoCS Workshop 2011 (Chair)

UMAP 2010 (Committee Member)

CHI 2008 (co-Chair)

RecSys 2008 (co-Chair)

IJCAI 2003 (faculty panelist)

ACM Multimedia '99 (Chair)

#### Other Roles

Breakthrough Group co-Chair (Humans and Machines), ITU AI for Good Global Summit 2017

Workshops co-Chair, ACM Recommender Systems 2009

Short-Papers co-Chair, CSCW 2002

Local Activities Chair, CHI 2002

Organizing Committee, Internet Research 2001 (Association of Internet Researchers)

Short Papers Associate Chair, CHI 2000

Panels Chair, UIST '99.

Technical Demonstrations Chair, ACM Multimedia '99.

Exhibits co-Chair for CHI '96.

#### Guest Editorships

Guest co-editor for special issue of *AI Communications* (Vol. 21, Issue 2-3, April 2008) in Recommender Systems).

Guest editor for January 2004 special issue of *ACM Transactions on Information Systems* on Recommender Systems: Algorithms and Evaluation.

Guest editor of December 1996 issue of *JCMC* on Communication in Information Spaces.

#### Other Reviewing

Referee for *ACM Computing Surveys*, *ACM Transactions on Programming Languages and Systems*, *ACM Transactions on Software Engineering*, *IEEE Computer*, *Communications of the ACM*, *ACM Transactions on Computer-Human Interaction*, *ACM Multimedia Systems*, *ACM Transactions on Information Systems*, *User Modeling and User Adapted Interaction*, *ACM Transaction on Internet Technology*, *AI Communications*, *International Journal of Human Computer Interaction*, *International Journal on Human-Computer Studies*, *Human Computer Interaction*, *ACM Transactions on the Web*, and various other journals.

Reviewer for Clearway Minnesota (Minnesota QuitPlan Proposals) 2008.

Reviewer for NSF proposals (1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2008, 2009, 2010, 2011, 2014, 2015, 2017, 2018).

Reviewer for many conferences and for overseas funding agencies.

Judge/Reviewer for ACM Student Research Competition Grand Finals (2009, 2010, 2012, 2013, 2014, 2015, 2016)

Judge/Panelist for Challenge on Context-aware Movie Recommendation (2010)

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## National and International Working and Advisory Groups

National Science Foundation CISE Committee of Visitors (2014)

Member of the National Children's Study Federal Advisory Committee (2012-2014)

Member of IFIP WG 13.1 on Education in HCI and HCI Curricula, since 2001.

## Journal and Serial Papers

49. Helen Fu, Terrence J Adam, Joseph A Konstan, Julian Wolfson, Thomas Clancy, Jean F Wyman. Influence of Patient Characteristics and Psychological Needs on Diabetes Mobile App Usability in Adults with Type 1 or Type 2 Diabetes on Insulin Therapy. *JMIR Diuabetes* (to appear). doi:10.2196/11462 (2019).
48. Nicola Ferro, Norbert Fuhr, Gregory Grefenstette, Joseph A. Konstan, Pablo Castells, Elizabeth M. Daly, Thierry Declerck, Michael D. Ekstrand, Werner Geyer, Julio Gonzalo, Tsvi Kuflik, Krister Lindén, Bernardo Magnini, Jian-Yun Nie, Raffaele Perego, Bracha Shapira, Ian Soboroff, Nava Tintarev, Karin Verspoor, Martijn C. Willemsen, and Justin Zobel. From Evaluating to Forecasting Performance: How to Turn Information Retrieval, Natural Language Processing, Recommender Systems into Predictive Sciences. *Dagstuhl Manifestos* 7(1) 96-139 (2018).
47. Tomu Tominaga, Yoshinori Hijikata, & Joseph A. Konstan. How self-disclosure in Twitter profiles relate to anonymity consciousness and usage objectives: a cross-cultural study. *Journal of Computational Social* (2018) pp. 1-45. <https://doi.org/10.1007/s42001-018-0023-z>
46. Nicola Ferro, Norbert Fuhr, Gregory Grefenstette, and Joseph A. Konstan. Towards Performance Modeling and Performance Prediction across IR/RecSys/NLP. *Dagstuhl Reports* 7(10), 2018, pp. 139-146.
45. Weiwen Leung\*, Haiyi Zhu, and Joseph A. Konstan. 2017. The Effect of Emotional Cues from the NFL on Wikipedia Contributions. *Proc. ACM Hum.-Comput. Interact.* 1, CSCW, Article 66 (December 2017), 21 pages.
44. Jacob Thebault-Spieker\*, Daniel Kluver\*, Maximilian A. Klein\*, Aaron Halfaker, Brent Hecht, Loren Terveen, and Joseph A. Konstan. 2017. Simulation Experiments on (the Absence of) Ratings Bias in Reputation Systems. *Proc. ACM Hum.-Comput. Interact.* 1, CSCW, Article 101 (December 2017), 25 pages.
43. Raghav Pavan Karumur\*, Tien T. Nguyen\*, Joseph A. Konstan. Personality, User Preferences, and Behavior in Recommender Systems. *Information Systems Frontiers* 20(6) 1241-1265, online Sept. 13, 2017
42. Tien T. Nguyen\*, F. Maxwell Harper, Loren Terveen, Joseph A. Konstan, User Personality and User Satisfaction with Recommender Systems. *Information Systems Frontiers* 20(6) 1173-1189, online Sept. 3, 2017
41. Fernando Mourão\*, Leonardo Rocha, Camila Araújo\*, Wagner Meira Jr., Joseph Konstan, What Surprises does your past have for you?, *Information Systems*, 71:137-151, Nov. 2017, ISSN 0306-4379, <https://doi.org/10.1016/j.is.2017.08.001>.
40. F. Maxwell Harper and Joseph A. Konstan. The MovieLens Datasets: History and Context. *ACM Trans. Interact. Intell. Syst.* 5, 4, Article 19 (December 2015), 19 pages. DOI=<http://dx.doi.org/10.1145/2827872>
39. Jeremy A. Grey, Joseph A. Konstan, Alex Ianfaffi, J. Michael Wilkerson, Dylan Galos, and B.R. Simon Rosser. "An Updated Protocol to Detect Invalid Entries in an Online Survey of Men Who Have Sex with Men (MSM): How Do Valid and Invalid Submissions Compare?" *AIDS and Behavior* March 2015, pp. 1-10. DOI: <http://dx.doi.org/10.1007/s10461-015-1033-y>
38. Y.Chen and J.A. Konstan. "Online Field Experiments: A Selective Survey of Methods." *Journal of the Economic Science Association* 1:1 29-42, July 2015. DOI: 10.1007/s40881-015-0005-3.
37. J.A. Konstan, J.D. Walker D.C. Brooks, K. Brown, M.D. Ekstrand. "Teaching Recommender Systems at Large Scale: Evaluation and Lessons Learned from a Hybrid MOOC." *ACM Transactions on Computer-Human Interaction* 22:2 article 10, pp 1-23, 2015.
36. J.A. Konstan and J.T. Riedl. "Recommended for you." *IEEE Spectrum* 49:10, pp 54-62 October 2012.
35. A. Pal\*, F.M. Harper, and J.A. Konstan. "Exploring Question Selection Bias to Identify Experts and Potential Experts in Community Question Answering." *ACM Transactions on Information Systems* 30:2 article 10:1-28, May 2012.
34. J.A. Konstan and J.T. Riedl. "Recommender Systems: From Algorithms to User Experience." *User Modeling and User Adapted Interaction* 22(1-2) pp. 101-123, March 2012. *Winner of the James Chen Award for best paper published in UMUAI in 2012.*
33. W. Li, J. Matejka, T. Grossman, J.A. Konstan, and G. Fitzmaurice. "Design and evaluation of a command recommendation system for software applications." *ACM Transactions on Computer-Human Interaction* 18: 2, article 6:1-35, July 2011.
32. M.D. Ekstrand\*, J.T. Riedl, and J.A. Konstan. "Collaborative Filtering Recommender Systems." *Foundations and Trends in Human-Computer Interaction* 4(2) pp. 81-173, April 2011.
31. B.R.S. Rosser, J.M Wilkerson, D.J. Smolenski, J.M. Oakes, J.A. Konstan, K.J. Horvath, G.R. Kilian, D.S. Novak, G.P. Danilenko\*, and R. Morgan. "The Future of Internet-based HIV Prevention: A Report on Key Findings from the Men's INternet Sex (MINTS-I, II) Studies" *AIDS & Behavior* 15:91-100, April 2011.
30. E. Horvitz, L. Getoor, C. Guestrin, J. Hendler, J. Konstan, D. Subramanian, M. Wellman, and H. Kautz. "AI Theory and Practice: A Discussion on Hard Challenges and Opportunities Ahead." *AI Magazine* 31(3):103-114, Fall 2010.
29. B.R.S. Rosser, J.M. Oakes, J.A. Konstan, S. Hooper, K.J. Horvath, G.P. Danilenko\*, K.R. Nygaard\*, and D.J. Smolenski. "Reducing HIV Risk Behavior of MSM through Persuasive Computing: Results of the Men's INternet Study (MINTS-II)." *AIDS* 24(13):2099-2107, 2010.

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28. F.M. Harper, J. Weinberg, J. Logie, and J.A. Konstan. Question types in social Q&A sites. *First Monday* 15(7-5), July 2010.
27. Y. Chen, F.M. Harper\*, J.A. Konstan, and S.X. Li. "Social Comparisons and Contributions to Online Communities: A Field Experiment on MovieLens." *American Economic Review* 100(4):1358-1398, Sept. 2010.
26. J. Chen\* and J.A. Konstan. "Conference Paper Selectivity and Impact." *Communications of the ACM* 53(6):79-83, June 2010.
25. B.R.S. Rosser, M.H. Miner W.O. Bockting, M.W. Ross, J.A. Konstan, L. Gurak, J. Stanton, A. Carballo-Díéguez, R. Mazin, E. Coleman. "HIV Risk and the Internet: Results of the Men's INternet Study (MINTS)." *AIDS & Behavior* 13(4) August 2009, pp. 746-756.
24. B.R.S. Rosser, J.M. Oakes, K.J. Horvath, J.A. Konstan, and J.L. Peterson. "HIV Sexual Risk Behavior by Men who use the Internet to seek Sex with Men: Results of the Men's INternet Sex Study-II (MINTS-II)." *AIDS and Behavior* 13(3) June 2009, pp 488-498.
23. B.R.S. Rosser, L. Gurak, K.J. Horvath, J.M. Oakes, J.A. Konstan, and G. Danilenko. "The Challenges of Ensuring Participant Consent in Internet-based Sex Studies: A Case Study of the MINTS I and II Studies." *Journal of Computer-Mediated Communication*, 14(3) April 2009, pp 602-626.
22. C-N. Ziegler, G. Lausen, and J.A. Konstan. "On Exploiting Classification Taxonomies in Recommender Systems," *AI Communications* 21(2-3) pp. 97-125, 2008.
21. W. Pequegnat, B.R.S. Rosser, A. Bowen, S.S. Bull, R.J. DiClemente, W.O. Bockting, J. Elford, M. Fishbein, L. Gurak, K. Horvath, J. Konstan, S. Noar, M.W. Ross, L. Sherr, D. Spiegel, R. Zimmerman. "Conducting Internet-based HIV/STD Prevention Survey Research: Considerations in Design and Evaluation." *AIDS & Behavior* 11,4 July 2007, pp. 505-521. (published online October 2006).
20. B.P. Bailey and J.A. Konstan. "On the Need for Attention-Aware Systems: Measuring Effects of Interruption on Task Performance, Error Rate, and Affective State." *Journal of Computers in Human Behavior* 22, 4, July 2006, pp. 685-708.
19. N. Good, J. Grossklags, J.A. Konstan, D. Mulligan, A. Perzanowski, D. Thaw.) "User Choices and Regret: Understanding Users' Decision Process about Consensually Acquired Spyware." *I/S: A Journal of Law and Policy for the information Society* 2, 2, 2006.
18. J.A. Konstan, B.R.S. Rosser, M.W. Ross, J. Stanton, and W.M. Edwards. "The Story of Subject Naught: A Cautionary but Optimistic Tale of Internet Survey Research," *Journal of Computer-Mediated Communication* 10(2), January 2005.
17. J.B. Schafer, J.A. Konstan, and J. Riedl. "The View through MetaLens: Usage Patterns for a Meta-Recommendation System," *IEE Proceedings Software*, Vol. 151, No. 6, December 2004, pp 267-279. IEE Publishing.
16. M. Ross, B.R.S. Rosser, J. Stanton, and J. Konstan. "Characteristics of Latino men who have sex with men on the Internet who complete and drop out of an Internet-based sexual behavior survey," *AIDS Education and Prevention* 16(6), December 2004, pp. 526-537.
15. B. Miller, J. Konstan, L. Terveen and J. Riedl. "PocketLens: Towards a Personal Recommender System" *ACM Transactions on Information Systems* 22(3), pp. 437-476, July 2004.
14. J. Herlocker, J. Konstan, L. Terveen and J. Riedl. "Evaluating Collaborative Filtering Recommender Systems" *ACM Transactions on Information Systems* 22(1), pp. 5-53, January 2004.
13. B. Bailey and J. Konstan. "Are Informal Tools Better? Comparing DEMAIS, Pencil and Paper, and Authorware for Early Multimedia Design." *CHI Letters* 5(1), CHI 2003, ACM Conference on Human Factors in Computing Systems. (16% acceptance rate)
12. D. Cosley\*, S.K. Lam\*, I. Albert, J. Konstan, and J. Riedl. "Is Seeing Believing? How Recommender System Interfaces Affect Users' Opinions." *CHI Letters* 5(1), CHI 2003, ACM Conference on Human Factors in Computing Systems. (16% acceptance rate)
11. J. Herlocker, J. Konstan, and J. Riedl. Empirical Analysis of Design Choices in Neighborhood-based Collaborative Filtering Algorithms. *Information Retrieval* 5 287-310, 2002.
10. S. McNeé\*, Istvan Albert, Dan Cosley\*, Prateep Gopalkrishnan\*, Shyong K. Lam\*, Al Mamunur Rashid\*, Joseph A. Konstan, and John Riedl. "On the Recommendation of Citations for Research Papers." *CHI Letters* 4(3), CSCW 2002, ACM Conference on Computer-Supported Cooperative Work. (acceptance rate: 20%)
9. J. Herlocker and J. Konstan. "Content-Independent, Task-Focused Recommendations." *IEEE Internet Computing* 5(6) Nov-Dec 2001, pp. 40-47.
8. J.B. Schafer\*, J. Konstan, and J. Riedl. "Electronic Commerce Recommender Applications." *Data Mining and Knowledge Discovery*. Kluwer Academic Publishers. January 2001. Also appears as a chapter in R. Kohavi and F. Provost (eds.) *Applications of Data Mining to Electronic Commerce*. Kluwer Academic Publishers, February 2001.
7. J. Herlocker\*, J. Konstan, and J. Riedl. "Explaining Collaborative Filtering Recommendations." *CHI Letters* 2(3), CSCW 2000, ACM Conference on Computer Supported Cooperative Work." (acceptance rate: 18%)
6. I. Kazi\*, D. Jose\*, B. Ben-Hamida\*, C. Kwok\*, C. Hescott\*, J. Konstan, D. Lilja, and P-C. Yew. "JaViz: A Client/Server Java Profiling Tool," *IBM Systems Journal* 31:1, 2000.
5. E. Chi\*, P. Barry, J. Riedl, and J. Konstan. "Principles for Information Visualization Spreadsheets," *IEEE Computer Graphics & Applications*, July 1998, pp. 30-38.
4. J. Konstan, L. Lichtblau, P. Sturm\*, and J. McLeod\*. "ISAP: A Web-Based Pharmacology Course and Study Environment," *Computers and Education* special issue on Multimedia, December 1997, pp. 63-71.

3. J. Konstan, B. Miller\*, D. Maltz\*, J. Herlocker\*, L. Gordon\*, and J. Riedl. "Applying Collaborative Filtering to Usenet News: The GroupLens System," *Communications of the ACM*, March 1997, pp. 77-87.
2. J. Schnepf\*, J. Konstan, and D. Du. "Doing FLIPS: Flexible Interactive Presentation Synchronization," *IEEE Journal on Selected Areas in Communication*, January 1996, pp. 114-125. (an earlier version appeared in the 1995 IEEE Multimedia Conference)
1. J. Konstan. "State Problems in Programming Human-Controlled Devices," *IEEE Transactions on Consumer Electronics*, November 1994, pp. 812-820.

## Books

1. J. Riedl and J. Konstan. *Word of Mouse: The Marketing Power of Collaborative Filtering*. New York: Warner Books, 2002.

## United States Patents

6. U.S. Patent #6,496,832. Visualization Spreadsheet (with E. Chi, J. Riedl, P. Barry). Issued December 17, 2002.
5. U.S. Patent #6,412,012. System, method, and article of manufacture for making a compatibility-aware recommendations to a user (with P. Bieganski, J. Rausser, and D. Frankowski). Issued June 25, 2002.
4. U.S. Patent #6,334,127. System, method and article of manufacture for making serendipity-weighted recommendations to a user (with P. Bieganski and J. Riedl). Issued December 25, 2001.
3. U.S. Patent #6,108,493. System, Method, and Article of Manufacture for Utilizing Implicit Ratings in Collaborative Filters (with B. Miller and J. Riedl). Issued August 22, 2000.
2. U.S. Patent # 6,016,475. System, Method, and Article of Manufacture for Generating Implicit Ratings Based on Receiver Operating Curves (with B. Miller and J. Riedl). Issued January 18, 2000.
1. U.S. Patent #5,842,199. System, Method, and Article of Manufacture for Using Receiver Operating Curves to Evaluate Predictive Utility (with B. Miller and J. Riedl). Issued November 24, 1998.

## Highly Selective Peer-Reviewed Conference Papers

54. Qian Zhao, Martijn C. Willemsen, Gediminas Adomavicius, F. Maxwell Harper, and Joseph A. Konstan. 2018. Interpreting user inaction in recommender systems. In *Proceedings of the 12th ACM Conference on Recommender Systems (RecSys '18)*. ACM, New York, NY, USA, 40-48. DOI: <https://doi.org/10.1145/3240323.3240366> (acceptance rate: 18%)
53. Raghav Pavan Karumur\*, Bown Yu\*, Haiyi Zhu, and Joseph A. Konstan. 2018. Content is King, Leadership Lags: Effects of Prior Experience on Newcomer Retention and Productivity in Online Production Groups. *Proceedings of ACM CHI 2018*. (acceptance rate: 25.7%)
52. Taavi Tajjala\*, Martijn Willemsen, and Joseph A. Konstan. 2018. MovieExplorer: Building an Interactive Exploration Tool from Ratings and Latent Taste Spaces. *Proceedings of ACM SAC 2018 track on Recommender Systems: Theory, User Interactions, and Applications*. (acceptance rate: 21.6%)
51. Qian Zhao\*, F. Maxwell Harper, Gediminas Adomavicius, and Joseph A. Konstan. 2018. Explicit or Implicit Feedback? Engagement or Satisfaction? — A Field Experiment on Machine-Learning-Based Recommender Systems. *Proceedings of ACM SAC 2018 track on Recommender Systems: Theory, User Interactions, and Applications*. (acceptance rate: 21.6%)
50. Denis Kotkov\*, Joseph A. Konstan, Qian Zhao\*, and Jari Veijalainen. 2018. Investigating Serendipity in Recommender Systems Based on Real User Feedback. *Proceedings of ACM SAC 2018 track on Recommender Systems: Theory, User Interactions, and Applications*. (acceptance rate: 21.6%)
49. Jie Kang\*, Kyle Condiff\*, Shuo Chang\*, Joseph A. Konstan, Loren Terveen, and F. Maxwell Harper. 2017. Understanding How People Use Natural Language to Ask for Recommendations. *Proceedings of RecSys '17*, Como, Italy, August 27-31, 2017, <https://doi.org/10.1145/3109859.3109873>
48. Qian Zhao\*, Gediminas Adomavicius, F. Maxwell Harper, Martijn Willemsen, and Joseph A. Konstan. 2017. Toward Better Interactions in Recommender Systems: Cycling and Serpentine Approaches for Top-N Item Lists. In *Proceedings of the 2017 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '17)*. ACM, New York, NY, USA, 1444-1453. (acceptance rate: 35% after two rounds of review)
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34. M.D. Ekstrand\*, M. Ludwig, J.A. Konstan, and John T. Riedl. "Rethinking the Recommender Research Ecosystem: Reproducibility, Openness, and LensKit." In *Proceedings of the Fifth ACM Conference on Recommender Systems*, pp 133-140, October 2011. (acceptance rate: 20%)
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22. R. Torres\*, S. McNee\*, M. Abel, J. Konstan, and J. Riedl. "Enhancing Digital Libraries with TechLens+," *Proceedings of the ACM/IEEE Joint Conference on Digital Libraries 2004*. (acceptance rate: 30%)
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19. S.M. McNee\*, S.K. Lam\*, J.A. Konstan, and J. Riedl. Interfaces for Eliciting New User Preferences in Recommender Systems. *Proceedings of The 9th International Conference on User Modeling (UM'2003)*, LNAI 2702, June 2003, pp. 178-188. (acceptance rate: 25%) **Winner of best student paper award.**
18. J.B. Schafer, J.A. Konstan, and J. Riedl. "Meta-recommendation Systems: User-controlled Integration of Diverse Recommendations." *Proceedings of the 11th International Conference on Information and Knowledge Management*, McLean, VA, November 2002, pp. 43-51. (acceptance rate: 25%)
17. A.M. Rashid\*, I. Albert, D. Cosley\*, S.K. Lam\*, S. McNee\*, J.A. Konstan, & J. Riedl. "Getting to Know You: Learning New User Preferences in Recommender Systems." *Proceedings of the 2002 International Conference on Intelligent User Interfaces*, San Francisco, CA, January 2002, pp. 127-134. (acceptance rate: 30%)
16. B. Bailey\*, J. Konstan, and J. Carlis. "DEMAIS: Designing Multimedia Applications with Interactive Storyboards." *Proceedings ACM Multimedia 2001*. (acceptance rate: 17%)
15. M. O'Connor\*, D. Cosley\*, J. Konstan, and J. Riedl. "PolyLens: A Recommender System for Groups of Users." *Proceedings of the European Conference on Computer-Supported Cooperative Work 2001*. (acceptance rate: 19%)
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11. J.B. Schafer\*, J. Konstan, and J. Riedl. "Recommender Systems in E-Commerce," *Proceedings of the ACM Conference on Electronic Commerce (EC '99)*. (acceptance rate: <30%)
10. J. Herlocker\*, J. Konstan, A. Borchers, and J. Riedl. "An Algorithmic Framework for Performing Collaborative Filtering," *Proceedings of the ACM Conference on Research and Development in Information Retrieval (SIGIR '99)*. (acceptance rate: 25%)
9. N. Good\*, J.B. Schafer\*, J. Konstan, A. Borchers, B. Sarwar\*, J. Herlocker\*, and J. Riedl. "Combining Collaborative Filtering with Personal Agents for Better Recommendations," *Proceedings of AAAI-99*, AAAI Press. (acceptance rate: 25%)
8. J. Carlis and J. Konstan. "Interactive Visualization of Serial Periodic Data," *Proceedings of ACM UIST 98*, San Francisco, November 1998, pp. 29-38. (acceptance rate: 25%)
7. B. Sarwar\*, J. Konstan, A. Borchers, J. Herlocker\*, B. Miller\*, and J. Riedl. "Using Filtering Agents to Improve Prediction Quality in the GroupLens Research Collaborative Filtering System," *Proceedings of ACM CSCW '98*, Seattle, November 1998, pp. 345-354. (acceptance rate: 19%)
6. B. Bailey\*, J. Konstan, R. Cooley\*, and M. Dejong\*. "Nsync - A Toolkit for Building Interactive Multimedia Presentations," *Proceedings of ACM Multimedia '98*, Bristol, UK, September 1998, pp. 257-266. (acceptance rate for full papers: 17%) Also appears in *Readings in Multimedia Computing and Networking* (K. Jeffay and H. Zhang, eds.) Morgan-Kaufmann, 2001, pp. 761-770.
5. T. Gustafson\*, J.B. Schafer\*, and J. Konstan. "Agents in Their Midst: Evaluating User Adaptation to Agent-Assisted Interfaces," *Proceedings of the 1998 International Conference on Intelligent User Interfaces*, San Francisco: ACM, January 1998, pp. 163-170. (acceptance rate: 35%)
4. B. Miller\*, J. Riedl, and J. Konstan. "Experiences with GroupLens: Making Usenet Useful Again," *Proceedings of the Usenix 1997 Winter Technical Conference*, Anaheim, CA, January 1997, pp. 219-233. (acceptance rate: 31%)
3. J. Herlocker\* and J. Konstan. "Commands as Media: Design and Implementation of a Command Stream," *Proceedings of ACM Multimedia '95*, pp. 155-165. (acceptance rate: 22%)
2. L. Rowe, J. Konstan\* and B. Smith\*. "The Picasso Application Framework," *Proceedings of ACM UIST '91*, Hilton Head, SC, November 1991, pp. 95-105. (acceptance rate: 23%)
1. J. Konstan\* and L. Rowe. "Developing a GUIDE Using Object-Oriented Programming," *Proceedings of the Sixth ACM Conference on Object-Oriented Programming: Systems, Languages, and Applications*, Phoenix, AZ, October 1991, pp. 75-88. (paper won best experience paper award) (acceptance rate: 12%)

## Articles and Chapters

25. Nicola Ferro, Norbert Fuhr, Gregory Grefenstette, Joseph A. Konstan, Pablo Castells, Elizabeth M. Daly, Thierry Declerck, Michael D. Ekstrand, Werner Geyer, Julio Gonzalo, Tsvi Kuflik, Krister Lindn, Bernardo Magnini, Jian-Yun Nie, Raffaele Perego, Bracha Shapira, Ian Soboroff, Nava Tintarev, Karin Verspoor, Martijn C. Willemsen, and Justin Zobel. 2018. The Dagstuhl Perspectives Workshop on Performance Modeling and Prediction. *SIGIR Forum* 52, 1 (August 2018), 91-101. DOI: <https://doi.org/10.1145/3274784.3274789>
24. Jack Davidson, Joseph Konstan, Andrew A. Chien, and Scott Delman. 2018. Toward sustainable access: where are we now?. *Commun. ACM* 61, 5 (April 2018), 6-7. DOI: <https://doi.org/10.1145/3201219>

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23. Joseph A. Konstan. 2017. Net Neutrality: What it is and what it means for consumers. *MinnPost*. Dec. 13, 2017.
22. Joseph A. Konstan and Jack W. Davidson. 2015. Should conferences meet journals and where?: a proposal for 'PACM'. *Commun. ACM* 58, 9 (August 2015), 5-5. DOI=<http://dx.doi.org/10.1145/2811400>
21. Joseph A. Konstan and Jack W. Davidson. 2015. Charting the future: scholarly publishing in CS. *Commun. ACM* 58, 4 (March 2015), 5-5. DOI=10.1145/2742646.
20. L. Terveen, J. Riedl, J.A. Konstan, and C. Lampe. "Study, Build, Repeat: Using Online Communities as a Research Platform" in J.S. Olson and W.A. Kellogg, Eds., *Ways of Knowing in HCI*. Springer Verlag 2014.
19. F. Bi\* and J.A. Konstan. Customer Service 2.0: Where Social Computing Meets Customer Relations. *Computer* 45:11, pp. xx-xx, November 2012.
18. A. Uduwage\* and J.A. Konstan. The Answer is Out There: Online Q&A Sites. *Computer* 45:7, pp. 90-92, July 2012.
17. P. Resnick, J.A. Konstan, Y. Chen, and R.E. Kraut. "Starting New Online Communities" in R. Kraut and P. Resnick, Eds., *Building Successful Online Communities: Evidence-Based Social Design*. MIT Press, 2012.
16. J.A. Konstan and W. West. "Using Technology and the Internet in Research" in W. Pequegnat, E. Stover, and C.A. Boyce (Eds.) *How to Write a Successful Research Grant Application: A Guide for Social and Behavioral Scientists, 2<sup>nd</sup> Ed.* Pp. 189-206. Springer 2010.
15. J.A. Konstan. "Forward" in D. Jannach, M. Zanker, A. Felfernig, and G. Friedrich, *Recommender Systems: An Introduction*. Cambridge University Press, 2010.
14. J.A. Konstan, B.R.S. Rosser, K.J. Horvath, L. Gurak, and W. Edwards. "Protecting Subject Data Privacy in Internet-Based HIV/STI Prevention Survey Research." In F.G. Conrad and M.F. Schober (Eds) *Envisioning the Survey Interview of the Future*. Wiley and Sons, 2007.
13. J.A. Konstan. "Drawing on SketchPad: Reflections on Computer Science and HCI." In T. Erickson and D.W. McDonald (Eds.) *HCI Remixed: Essays on Works that have Influenced the HCI Community*. MIT Press, 2007.
12. J.A. Konstan. "The Case for Direct-Charged Research Project Management Assistance." Federal Demonstration Project White Paper. December, 2007.
11. R.S. Decker, L. Wimsatt, A.G. Trice, and J.A. Konstan. "A Profile of Federal-Grant Administrative Burden among Federal Demonstration Partnership Faculty." January 2007. Report available at [www.thefdp.org](http://www.thefdp.org).
10. J.B. Schafer, J. Konstan, and J. Riedl. "Recommender Systems for the Web." In *Visualizing the Semantic Web*, 2<sup>nd</sup> Edition, edited by V. Geroimenko and C. Chen. Springer Verlag, 2006. Substantial revision and extension of first-edition chapter.
9. J. Konstan and J. Riedl. "Collaborative Filtering: Supporting Social Navigation in Large, Crowded Infospaces." In *Designing Information Spaces: The Social Navigation Approach* edited by K. Höök, D. Benyon, and A.J. Munro. Springer Verlag, 2002.
8. J. Konstan and J. Riedl. "Recommender Systems for the Web." In *Visualizing the Semantic Web*, edited by V. Geroimenko and C. Chen. Springer Verlag, 2002.
7. B. Bailey\*, L. Gurak, and J.A. Konstan. "Trust in Cyberspace." In *Human Factors and Web Development*, edited by J. Ratner. New Jersey: Lawrence Erlbaum Associates, 2002.
6. B. Miller\*, J. Riedl, and J. Konstan. "GroupLens for Usenet: Experiences in Applying Collaborative Filtering to a Social Information System" in C. Leug and D. Fisher (eds.) *From Usenet to CoWebs: Interacting with Social Information Spaces*. Springer-Verlag, 2002 (in press).
5. B. Sarwar\*, J. Konstan, and J. Riedl. "Distributed Recommender Systems: New Opportunities for Internet Commerce," in *Internet Commerce and Software Agents: Cases, Technologies and Opportunities* (S. Rahman and R. Bignall, eds.). Idea Group Publishing, Hershey, PA, 2001.
4. B. Bailey\* and J. Konstan "Authoring Interactive Media." Article in *Encyclopedia of Electrical and Electronics Engineering*. John Wiley & Sons, 2000.
3. J. Konstan. "Web Resources" encyclopedia article in *1999 Yearbook of Science & Technology*. McGraw Hill, New York, 1999.
2. A. Borchers, J. Herlocker\*, J. Konstan, and J. Riedl. "Ganging Up on Information Overload," column in *IEEE Computer*, April 1998, pp. 106-108.
1. S. Rafaeli, F. Sudweeks\*, J. Konstan, and E. Mabry. "ProjectH: A Collaborative Quantitative Study of Computer-Mediated Communication," in *Network & NetPlay: Virtual Groups on the Internet* (F. Sudweeks, M. McLaughlin, and S. Rafaeli, editors). Cambridge, MA: AAAI Press and MIT Press, 1998, pp. 265-281.

### Other Peer-Reviewed Full-Length Conference Papers

24. J.A. Konstan, J.D. Walker, D.C. Brooks, K. Brown, and M.D. Ekstrand. Teaching Recommender Systems at Large Scale: Evaluation and Lessons Learned from a Hybrid MOOC. *Proceedings of the ACM Conference on Learning at Scale*, March 2014. (Acceptance rate: 35%).
23. K.B. Shores\*, J.A. Konstan, J.T. Riedl, A.J. Taylor, D.J. Steinberger, and T.J. Adam. Radiology Diagnostic Exchange Agents: Clinical Term Identification and Validation. *AMIA Joint Summits on Translational Science Proceedings*, pp. 244-248, March 2013.

22. J. Logie, J. Weinberg\*, F.M. Harper, and J.A. Konstan. "Asked and Answered: On Qualities and Quantities of Answers in Online Q&A Sites" in *Proceedings of the AAAI ICWSM Workshop on the Social Mobile Web*, AAAI Technical Report WS-11-02, pp. 24-31, AAAI Press, 2011.
21. V. Krishnan\*, P.K. Narayanashetty\*, M. Nathan\*, R.T. Davies, and J.A. Konstan. "Who predicts better?: results from an online study comparing humans and an online recommender system." In *Proceedings of the 2008 ACM Conference on Recommender Systems* (Lausanne, Switzerland, October 23 - 25, 2008). RecSys '08. ACM, New York, NY, 211-218.
20. F.M. Harper\*, X. Li, Y. Chen, and J.A. Konstan. "Social Comparisons to Motivate Contributions to an Online Community" *Proceedings of Persuasive 2007* (approx. acceptance rate: 44%).
19. N. Kapoor\*, J.T. Butler, G.C. Fouty, J.A. Stemper, and J.A. Konstan.. "Resolvability of References in Users' Personal Collections" In *Proceedings of the Sixth International Conference on Conceptions of Library and Information Sciences (CoLIS 2007)*.
18. N. Kapoor, D. Frankowski, L. Terveen, and J. Konstan. "Lessons Learned in Implementing the CHIplace Online Community" *Proceedings of the Human-Computer Interaction International Conference 2005*. (invited and reviewed)
17. B.M. Sarwar, G. Karypis, J. Konstan, and J. Riedl. "Recommender Systems for Large-Scale E-Commerce: Scalable Neighborhood Formation Using Clustering." *Proceedings of the Fifth International Conference on Computer and Information Technology*, 2002. (acceptance rate: 54%)
16. B.M. Sarwar, G. Karypis, J. Konstan, and J. Riedl. "Incremental SVD-Based Algorithms for Highly Scaleable Recommender Systems." *Proceedings of the Fifth International Conference on Computer and Information Technology*, 2002. (acceptance rate: 54%)
15. B. Bailey\*, J. Konstan, and J. Carlis. "Supporting Multimedia Designers: Towards More Effective Design Tools." *Proceedings Multimedia Modeling, 2001*. (acceptance rate: 54%)
14. A. Safonov\*, J. Konstan, and J. Carlis. "End-user Web Automation: Challenges, Experiences, Recommendations." *Proceedings of WebNet 2001*. (acceptance rate: unknown)
13. B. Bailey\*, J. Konstan, and J. Carlis. "An Examination of Trust Production in Computer-Mediated Exchange." *Proceedings of the 7th Conference on Human Factors and the Web*, 2001. (acceptance rate: 33%)
12. A. Safonov\*, J. Konstan, and J. Carlis. "Beyond Hard-to-Reach Pages: Interactive, Parametric Web Macros." *Proceedings of the 7th Conference on Human Factors and the Web*, 2001.(acceptance rate: 33%)
11. B. Bailey\*, J. Konstan, and J. Carlis. "Adjusting Windows - Balancing Information Awareness with Intrusion," *Proceedings of the Sizth Conference on Human Factors and the Web*, 2000. (acceptance rate: 42%)
10. B. Sarwar\*, G. Karypis, J. Konstan, and J. Riedl. "Application of Dimensionality Reduction in Recommender System--A Case Study." *Proceedings of the WebKDD 2000 Workshop*, August 2000. (acceptance rate: 41%)
9. A. Safonov\*, J. Konstan, and J. Carlis. "Toward Web Macros: A Model and a Prototype System for Automating Common Tasks on the Web," *Proceedings of the Fifth Conference on Human Factors and the Web*, June 1999. (acceptance rate: 40%).
8. M. DeJong\*, B. Bailey\*, and J. Konstan. "Creating A Multimedia Extension for Tcl Using the Java Media Framework," *Proceedings of the 1998 Tcl/Tk Conference*, Usenix Association, San Diego, September 1998, pp. 155-162. (acceptance rate: 59%)
7. E. Chi\*, P. Barry, J. Riedl, and J. Konstan. "A Spreadsheet Approach to Information Visualization," in *Proceedings of the 1997 IEEE Symposium on Information Visualization*, October 1997, pp. 17-24 and 116. (acceptance rate: 59%)
6. A. Safonov\*, J. Konstan, J. Carlis, and B. Bailey\*. "Extending Traces with OAT: An Object Attribute Trace Package for Tcl/Tk," *Proceedings of the Tcl/Tk Workshop 97*, Usenix Association, July 1997, pp. 81-88. (acceptance rate: 50%)
5. B. Bailey\* and J. Konstan. "Nsync -- A Constraint-Based Toolkit for Multimedia," *Proceedings of the Tcl/Tk Workshop 97*, Usenix Association, July 1997, pp. 107-114. (acceptance rate: 50%)
4. J. Konstan, S. Herbst\*, and A. Ellis. "Web-Based Delivery and Open-Architecture Database Support in the ITreS Counselor Information System," Special Issue of *Journal of the American Medical Informatics Association -- Proceedings of the AMIA Fall Symposium*, 1996, pp. 782-786. (acceptance rate: 55%)
3. A. Safonov\*, D. Perrin\*, J. Konstan, and J. Carlis. "Lessons from the Neighborhood Viewer: Building Innovative Collaborative Applications in Tcl and Tk," *Proceedings of the Tcl/Tk Workshop '96*, Usenix Association, 1996, pp. 203-213. (paper won best paper award) (acceptance rate: 57%)
2. J. Herlocker\* and J. Konstan. "Tcl Commands as Media in a Distributed Multimedia Toolkit," *Proceedings of the Tcl/Tk Workshop 95*, Usenix Association, 1995, pp. 205-212. (acceptance rate: 79%)
1. S. Iyengar\* and J. Konstan. "TclProp: A Data-Propagation Formula Manager for Tcl and Tk," *Proceedings of the Tcl/Tk Workshop 95*, Usenix Association, 1995, pp. 25-30. (acceptance rate: 79%)

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## Other Reviewed Publications

36. From User Experience to Offline Metrics and Back Again: A Research Agenda. Proc. of the 2018 REVEAL Workshop on Offline evaluation for recommender systems. <https://sites.google.com/view/reveal2018>
35. Xinyi Wang, Haiyi Zhu, Yangyun Li, Yu Cui, and Joseph Konstan. 2017. A Community Rather Than A Union: Understanding Self-Organization Phenomenon on MTurk and How It Impacts Turkers and Requesters. In *Proceedings of the 2017 CHI Conference*

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- Extended Abstracts on Human Factors in Computing Systems (CHI EA '17)*. ACM, New York, NY, USA, 2210-2216 (late-breaking work).
34. Qian Zhao, Sashank Varma, and Joseph A. Konstan. 2017. In-Video Reuse of Discussion Threads in MOOCs. In *Proceedings of the Fourth (2017) ACM Conference on Learning @ Scale (L@S '17)*. ACM, New York, NY, USA, 153-156. (Work-in-Progress).
  33. Raghav Pavan Karumur, Tien T. Nguyen, and Joseph A. Konstan. 2016. Exploring the Value of Personality in Predicting Rating Behaviors: A Study of Category Preferences on MovieLens. In *Proceedings of the 10th ACM Conference on Recommender Systems (RecSys '16)*. ACM, New York, NY, USA, 139-142. (short paper acceptance rate: 20%)
  32. Vikas Kumar, Daniel Jarratt, Rahul Anand, Joseph A. Konstan, and Brent Hecht. "Where Far Can Be Close" Finding Distant Neighbors in Recommender Systems. Proceedings of the LocalRec 2015 Workshop on Location-Aware Recommendations. CUER Workshop Proceedings Vol 1405 ISSN 1613-0073, pp. 13-20.
  31. J.A. Konstan and G. Adomavicius. Toward Identification and Adoption of Best Practices in Algorithmic Recommender Systems Research. Proceedings of the RepSys Workshop held at the 2013 ACM RecSys Conference, Hong Kong.
  30. J.A. Konstan and A. Uduwage. "An Experimentalist Agenda for Social Q&A." CSCW 2013 Workshop on Social Media Question Asking. San Antonio, TX, USA.
  29. B.R.S. Rosser, D.J. Smolenski, D. Holsinger, E. Fuchs, K.J. Horvath, J.A. Konstan, J.M. Oakes, and J.M. Wilderson. "Advancing methods in Internet-based HIV prevention intervention trials for MSM: Results from the Men's INternet Studies (MINTS-I, II, III)" poster presented at AIDS 2012 – Washington, D.C., USA.
  28. A. Pal and J.A. Konstan. "Expert Identification in Community Question Answering: Exploring Question Selection Bias" in *Proceedings of the 19th ACM International Conference on Information and Knowledge Management (CIKM '10)*, pp. 1505-1508, October 2010.
  27. B.R.S. Rosser, J.A. Konstan, S. Hooper, K.J. Horvath, G. Danilenko, K. Nygaard, J.M. Oakes. "Sexpulse: An Internet-based HIV prevention program for Men who use the Internet to seek Sex with Men." *Abstracts of the 9th International AIDS Impact Conference*, Gaborone, Botswana, September 2009.
  26. B.R. Simon Rosser, Joseph Konstan, Richard Weinmeyer, Keith Horvath, Sonya Brady, Rhonda Jones-Webb, Lindsay Niswanger, Gabriel Anderson. "Investigating Structural Interventions to Lower Alcohol-related STI/HIV-risk (SILAS)." *Abstracts of the XVII International AIDS Conference*, Mexico City, 3-8 August 2008, Tuesday 5, 13702.
  25. Editor's introduction to April 2008 special issue of *AI Communications* (with D. Jannach and M. Zanker).
  24. J.A. Konstan and Y. Chen. "Online Field Experiments: Lessons from CommunityLab" in *Proceedings of the Third International Conference on e-Social Science*, Ann Arbor, MI, October 2007.
  23. J.A. Konstan, S.M. McNee, C-N. Ziegler, R. Torres, N. Kapoor, and J.T. Riedl. "Lessons on Applying Automated Recommender Systems to Information Seeking Tasks". Nectar paper in the *Proceedings of AAAI-06: the Twenty-First National Conference on Artificial Intelligence (AAAI-06)*, Boston MA, July 2006.
  22. J.A. Konstan, N. Kapoor, S.M. McNee, and J.T. Butler. TechLens: Exploring the Use of Recommenders to Support Users of Digital Libraries. CNI 2005 Fall Task Force Meeting Project Briefing. Coalition for Networked Information. Phoenix, AZ.
  21. B.R.S. Rosser, W.O. Bockting, L. Gurak, J. Konstan, M.W. Ross, E. Coleman, S. Jacoby. Sexual risk behavior and the Internet: Results of the Men's INternet Study (MINTS). *Abstracts of the 2005 National HIV Prevention Conference*, Atlanta, GA, July 12-15, 2005; #T1-A0804, p. 82.
  20. B.R.S. Rosser, C. Naumann, J. Konstan, S. Hooper, K. Feiner, W. Bockting, G. Remafedi, E. Coleman, M. Oakes, T. Manning, M. Allen. Next generation HIV prevention programs using the Internet: Men's INternet Study II (MINTS-II). *Abstracts of the 2005 National HIV Prevention Conference*, Atlanta, GA, July 12-15, 2005; #T2-C1501, p.112.
  19. N. Kapoor, J.A. Konstan, and L.G. Terveen. How peer photos influence member participation in online communities. In *CHI '05 Extended Abstracts on Human Factors in Computing Systems* (Portland, OR, USA, April 02 - 07, 2005).
  18. B. Miller\*, I. Albert, S. Lam\*, J. Konstan, and J. Riedl (poster paper) "MovieLens Unplugged: Experiences with a Recommender Systems on Four Mobile Devices." *Proceedings of the 2003 ACM Conference on Intelligent User Interfaces*, Miami, FL, January 2003.
  17. A. Safonov\*, J. Konstan, and J. Carlis. (poster) "WebMacros - a Proxy-based System for Recording and Replaying User Interactions with the Web." *Poster Proceedings of the 10th International World Wide Web Conference*, 2001.
  16. J.A. Konstan. "Turn off the cameras—I'll take a traditional classroom." *eLearn 2001:10*, October 2001.
  15. B. Bailey\*, J. Konstan, and J. Carlis. "Measuring the Effects of Interruptions on Task Performance in the User Interface," *Proceedings of the IEEE Conference on Systems, Man, and Cybernetics*, 2000.
  14. J. Konstan. "Research Resources for Collaborative Filtering." Position paper for CHI 99 Workshop on Recommender Systems. Presented at the workshop in May 1999.
  13. J. Konstan. "No Filter is an Island." Position paper for AAAI-98 Workshop on Recommender Systems. Presented at the workshop on July 26, 1998.
  12. S. Larson and J. Konstan. "Collaborative Filtering's Impact on Relationship Marketing" column in *DM News*, November 24, 1997.

11. "A Spreadsheet Approach to Information Visualization" (with E. Chi, P. Barry, and J. Riedl). Peer-reviewed demonstration presented at the *10th Annual ACM Symposium on User Interface Software and Technology (UIST '97)*, Banff, AB, October, 1997. (Summary on page 79 of proceedings).
10. "The GroupLens Research Project: Exploring Collaborative Filtering" (with J. Riedl and B. Miller) (position paper) *CHI '97 Basic Research Symposium*.
9. "Creating Multimedia System Toolkits" (position paper) *CHI '97 Basic Research Symposium*.
8. "Teaching the Design of Interactive Systems" (position paper) 1997 TeaDIS Workshop.
7. "The Neighborhood Viewer: A Paradigm for Exploring Image Databases" (with J. Carlis, A. Safonov, and D. Perrin). Peer-reviewed demonstration presented at CHI 97; summary in the *CHI 97 Conference Companion*.
6. Refereed demonstration of GroupLens collaborative filtering toolkit and applications at CSCW 96 (with B. Miller and J. Riedl) (Cambridge, MA, November 1996).
5. Refereed demonstration of command stream and SynchMe synchronization toolkit at ACM Multimedia '96 (with B. Smith and L. Rowe) (Boston, MA, November 1996).
4. "Tcl and Tk in the Classroom: Lessons Learned" (panel and position paper) Proceedings of the Tcl/Tk Workshop '95, Usenix Association, 1995.
3. "Fulfilling the Promise of Multimedia: Intelligent and Usable Multimedia Applications" (position paper) CHI '95 Basic Research Symposium.
2. "State Problems in Programming Human-Controlled Devices" (extended abstract) Proceedings of the International Conference on Consumer Electronics, 1993.
1. "The Picasso Graphical User Interface Framework" (poster) 1991 Lisp Users and Vendors Conference.

## Software Systems and Other Publications

Michael D. Ekstrand and Joseph A. Konstan. Recommender Systems Notation: Proposed Common Notation for Teaching and Research. arXiv preprint arXiv:1902.01348, 2019.

IRL Portal, a collaborative work environment for the RWJF Interdisciplinary Research Fellows program (2015-)

BookLens recommender system integrated into 7 of the metropolitan library catalogs (2014-2017)

GopherAnswers online Q&A web site (first released 2013).

LensKit recommender system toolkit for research (first released 2011, release 2.0 Summer 2013, more than 3000 users).

Online community intervention for HIV-positive medication adherence (pilot trial held in 2010).

SexPulse online intervention/education system for HIV prevention (randomized clinical trial held in 2008).

TechLens research paper recommender (versions 1, 2, and 3).

Four years of editorial columns during my tenure as editor of *SIGCHI Bulletin* (approximately 20 editorials total).

CHIPlace community web site (taken over and re-developed during 2003; re-launched with entirely new code in 2003). A community web site for the HCI community with over 2000 members.

DEMAIS design tool for multimedia. Released for general use.

MovieLens data sets and DBLens research collaborative filtering toolkit. Released for research use (and currently used by researchers at several universities and research labs, including Carnegie Mellon University and U.C. Berkeley).

GroupLens collaborative filtering toolkit. Licensed by University of Minnesota to Net Perceptions, Inc., July 1996. Commercial version is currently the leading collaborative filtering recommendation engine, with over 50 customers, mostly Internet sites.

MovieLens web-based movie recommendation site. Launched Fall 1997. Research system used to gather data and carry out experiments. Operates continuously with over 7000 users worldwide.

URL: <http://movielens.umn.edu/>

ISAP pharmacology education web site. Launched Spring 1996. As of July 1998, over 6800 registered users. Licensed to IdeaServices for commercial development in August 1998.

URL: <http://www.med.umn.edu/ISAP/>

TclProp data propagation constraint programming software releases. TclProp 1.0 and TkVP (video poker demonstration application) released August 1995. TclProp 1.1 released as part of Berkeley CMT distribution in November 1996. TclProp 2.0 and OAT (trace interface layer) released January 1997. Over 50 direct downloads.

*An Event-Based Architecture for Graphical User-Interface Toolkits*, Ph.D. Dissertation, University of California, Berkeley, 1993.

Berkeley IC-CIM Research (videotape), with L.A. Rowe, C. Hegarty, Y. Or, P. Schank, B. C. Smith, and S. Smoot. University of California, Berkeley, 1991.

Picasso Graphical User Interface Toolkit and Framework (software system) and accompanying *Picasso Reference Manual*, with L.A. Rowe, B.C. Smith, S. Seitz, C. Liu, and P. Schank. University of California, Berkeley, 1990.

## Research Grants

### Awarded: Federal Agencies

#### **National Science Foundation**

RecSys 2016 Doctoral Symposium (PI). Funded for \$20,932 for the period June 2016 – May 2018.

HCC-Small: Experiments in Community Q&A (PI, with John Logie). Funded for \$499,952 for the period September 2013 – August 2018.

Workshop: Social-Computation Systems (SoCS) Doctoral Symposium (PI). Funded for \$42,670 for the period September 2010 – August 2011.

HCC-Small: Net Fishing: Pulling Valuable Tweets, Feeds, and Blogs from the Online Message Stream (replacement PI for J. Riedl as of 2013). Funded for \$499,999 for the period September 2010 – August 2015.

HCC-Small: Understanding and Supporting Online Question-Answering Sites” (PI, with J. Logie). Funded for \$445,519 for the period September 2008 – August 2011.

REU Supplement of \$16,000 funded May 2009.

REU Supplement of \$22,012 funded June 2010.

HCC-Large: Collaborative Research: Understanding Online Volunteer Communities: Toward Theory-Based Design” (co-PI and later PI, with J. Riedl, M. Snyder, L. Terveen, Y. Ren). Funded for \$2,400,000 for the period August 2008 – July 2013 (extended to July 2015).

“IIS Workshop: Human-Computer Interaction Doctoral Research Consortium at ACM CHI 2008: Human Factor in Computing Systems” (PI). Funded for \$40,000 for the period August 2007 – July 2008.

“Recommender Systems Conference Doctoral Consortium 2007” (co-PI, with L. Terveen) Funded for \$15,415 for the period June 2007 – May 2008.

\$9000 supplement awarded to fund 2008 consortium.

“Enhanced Digital Libraries through Recommendation: Exploring the Use of Citations, Personal Bibliographies, and Metadata to Synthesize Library Services for Individuals” (PI, with J. Riedl and J. Butler). Funded for \$500,000 for the period June 2006-May 2009; later extended to May 2011.

“Helping Hands: Computer Support for Community-Maintained Artifacts of Lasting Value” (co-PI, with J. Riedl and J. Kahn). Funded for \$630,133 for the period 11/1/05 through 10/31/08.

“ITR: Collaborative Research: Designing On-Line Communities to Enhance Participation -- Bridging Theory and Practice” (PI, with J. Riedl and L. Terveen; collaborating with researchers at CMU and U. of Michigan). Funded for \$1,246,017 for the period 9/1/03 through 8/31/08.

REU Supplement of \$6,000 funded May 6, 2004.

“CISE Research Resources: Being There: Mobile Devices for Community and Commerce” (co-PI, with L. Terveen, J. Riedl, and S. Shekhar). Funded for \$120,000 for the period 9/1/02 through 8/31/04.

“Reading a Balanced Diet: Foraging in Information Communities” (PI, with J. Riedl). Funded for \$410,000 for the period 09/01/01 through 08/31/04. Extended through 8/31/05.

“Research Instrumentation: Cluster Computing for Knowledge Discovery in Diverse Data Sets” (co-PI, with G. Karypis, J. Riedl, S. Shekhar, and M. Gini). Funded for \$74,516 for the period February 1, 2000 - January 31, 2003.

“Reflective GroupLens: Collaborative Filtering in Self-Aware Communities” (PI, with J. Riedl). Funded for \$303,264 for the period September 15, 1999 - August 30, 2002.

REU Supplement of \$15,000 funded July 31, 2002.

“CAREER: Algorithmic Issues in Collaborative Filtering.” (PI) Funded August 1, 1998 - July 31, 2003 for \$326,262.

REU Supplement of \$10,000 funded June 1, 1999

Industrial Collaboration Supplement of \$10,000 funded August 27, 1999.

“Collaborative, Distributed Database for Brain Viewing” (co-PI, with J. Carlis, J. Riedl, and B. Elde). Funded August 1, 1997 - July 31, 1999 for \$519,992.

“GroupLens: Scalable Collaborative Filtering for the Internet” (co-PI, with J. Riedl). Funded March 1, 1997 - February 29, 2000 for \$317,451.

REU Supplement of \$15,000 funded April 1, 1999.

“Graduate Research Traineeships: Human Interface Design for Access to Computers and Networked Information--Panning for Gold: Information Discovery on the Information Super-Highway” (co-PI, with A. Sameh, J. Riedl, and J. Srivastava) Funded September 1995 - August 2000 for \$562,500.

“RIA: User Interface Toolkit Architectures for Distributed Multimedia Applications” (PI) Funded July 1994 - July 1997 for \$99,865. Extended to July 1998 and supplemented twice to a total of \$110,744.

#### **National Institutes of Health**

Last updated: 2/2019

"Men's Internet Study III (MINTS-III) for HIV Prevention" (co-I with S. Rosser and several other co-Is). Approximately \$3 million for the period 9/22/10 through 5/31/15.

"Understanding Effects of Web-based Media on Virtual Populations" (co-I with S. Rosser and several other co-Is). Approximately \$1.4 million for the period 8/1/09 through 4/30/12.

"A Pilot Test of an Online HIV Medication Adherence Intervention" (co-I with Keith Horvath and other co-Is). Approximately \$670,000 for the period 2/12/2009 through 12/31/2011.

"Food and Nutrient System for Research (Renewal)" (co-I with L. Harnack and other co-Is). Approximately \$3.2 million for the period 12/15/08 through 2/28/14.

"Gender Identity and HIV Risk II" (co-I with Walter Bockting (PI) and other co-Is). \$3,306,358 for the period 5/1/07 through 4/30/12.

"Structural Factors to Lower Alcohol-Related HIV Risk" (co-I with S. Rosser and several other co-Is). Approximately \$3.2 million for the period 9/6/06 through 8/31/11.

"Men's INternet Study II (MINTS-II) for HIV Prevention" (co-I with S. Rosser and several other co-Is). Approximately \$2.4 million for the period 8/1/04 through 7/31/09.

"Food and Nutrition System for Research (Renewal)" (co-I with J. Himes and other co-Is). Approximately \$3.4 million for period 12/1/03 through 11/30/06. First year of grant was pre-awarded. Rest was awarded in 2004. One year funded extension awarded in 2006. Another one-year extension awarded in 2007.

"Internet HIV Prevention for Internet-Using Latino MSM" (co-I, with S. Rosser and several other co-Is). Funded for \$888,545 for the period 7/8/01 through 6/30/04.

"NDS-R Fluoride Component" (co-I, with John Himes and other co-Is). Funded for \$963,101 for the period 9/30/01 through 9/29/04.

"A Fall Prevention Program for High-Risk Elderly Women" (co-I, with J. Wyman and several other co-Is). Funded for \$2,971,282 for the period May 1, 2000 through February 28, 2005.

"Food and Nutrient Systems for Research" (co-I, with J. Himes and three other co-Is in epidemiology). \$2,123,653 funded by National Heart, Lung, and Blood Institute for period December 1, 1998 through November 30, 2003.

#### **United States Department of Transportation**

"Agent-Based Distraction-Free Interfaces: Investigation." (PI) Funded August 16, 1995 - August 15, 1996 for \$40,322.

#### **Awarded: Industrial and Foundation Funding**

Robert Wood Johnson Foundation: "Interdisciplinary Research Leaders – National Leadership Program" (with J.M. Oakes (PI) and other co-PIs). \$3,199,202 for the period 9/1/2018 through 8/31/2019.

Robert Wood Johnson Foundation: "Interdisciplinary Research Leaders – National Leadership Program" (with J.M. Oakes (PI) and other co-PIs). \$2,509,353 for the period 9/1/2017 through 8/31/2018.

Robert Wood Johnson Foundation: "RWJF Change Leaders Programs – Interdisciplinary Research Leaders" (with J.M. Oakes (PI) and other co-PIs). \$1,688,914 for the period 4/1/2016 through 8/31/2017.

Robert Wood Johnson Foundation: "National Leadership Program Center – Interdisciplinary Research Leaders program planning grant" (with J.M. Oakes (PI) and other co-PIs) \$715,641 for the period 11/15/2015 – 3/31/2016.

Google Focused Research Award in Social Interactions: "Precision Crowdsourcing: Closing the Loop to turn Information Consumers into Information Contributors" (with J. Riedl and L. Terveen) \$292,500 2012

Autodesk Research: "Recommender Systems, Online Communities, and Collaborative Filtering" \$55,000. 2009.

Unilever Corporate Research: "Exploring Temporal Collaborative Filtering to Support Behavior Change" \$25,000 (matched by funds from U of M Digital Technology Center) (with J. Riedl). 2006.

Aurora Technology: "Software Development for and Assessment of Multi-Screen Radiology Workstation." Funded June 1998 - January 1999 for \$40,000 (part of \$55,000 grant with R. Ritenour).

Net Perceptions, Inc: "GroupLens Research" (with J. Riedl). Funded September 1997 - September 2000 for \$60,000.

IBM: "Java Performance Monitoring and Visualization Tools" (with P. Yew and Z. Li). Funded February 1 1997 - January 31, 1998 for \$91,000 (PI of \$30,000 visualization component). Renewed (with P. Yew and D. Lilja) for March 1998 - December 1999 for \$90,000 (PI of \$36,000 visualization component).

Distributed Multimedia Research Center (Computing Devices International): "Commands as Media -- Implementation of Command Streams (renewed)" funded December 16, 1996 - December 15, 1997 for \$23,000.

Essex Consulting/NIH SBIR Subcontract: "Information System for Substance Abuse Practitioners." Funded September 1995 - March 1996 for \$18,578.

Distributed Multimedia Research Center (Computing Devices International): "Commands as Media -- Implementation of Command Streams" funded September 16, 1995 - September 15, 1996 for \$21,500.

#### **University Programs**

SOBACO Research Grants: "Toward More Rigorous Data-Intensive Research: Standardization in Recommender Systems" \$50,000 (with G. Adomavicius). 2013.

Last updated: 2/2019

MN Futures Grant: "MARVEL – Improving Radiology Reports through Recommendation \$250,000 (with T. Adam, D. Steinberger, and J. Riedl). 2011.

University of Minnesota Libraries: "Recommender Services in Academic Digital Libraries" \$25,000 (with J. Riedl). 2005. Another \$25,000 awarded as a renewal in 2006.

Digital Technology Center Faculty Grant: "Exploring Temporal Collaborative Filtering to Support Behavior Change" \$25,000 (matched by funds from Unilever Corporate Research) (with J. Riedl). 2005

President's 21<sup>st</sup> Century Interdisciplinary Conference Fund. "Information, Technology, and Everyday Life" (PI, with a large interdisciplinary team of collaborators). Funded for a Spring 2005 conference for \$25,000.

Digital Technology Center Faculty Grant to purchase an eye-tracker. Funded Spring 2004 for approximately \$20,000.

Planning Initiatives in Interdisciplinary Research, Scholarly and Creative Activities (IRSCA) program. "Interdisciplinary Education and Outreach in Internet Studies" (with L. Gurak and D. Burk). Funded July 1, 2001 - June 30, 2003 for \$20,000.

Eight Undergraduate Research Opportunity Program (UROP) awards.

Academic Health Center: Pilot Study on using Voice Playback and Recognition Software as part of an Exercise Tracking System for Elderly Citizens (over age 75) (with J. Wyman, et. al.). Funded July 1, 1998 for approximately \$150,000.

University of Minnesota Academic Health Center: "Internet Self-Assessment in Pharmacology." (with L. Lichtblau, Univ. of Minnesota Department of Pharmacology) Funded June - November 1995 for \$2100.

Project MinneMAC: "Internet Self-Assessment in Pharmacology." (with L. Lichtblau) two equipment grants (Apple Macintosh equipment) funded 1995 and 1996.

University of Minnesota Graduate School: "Embeddable Applications: A New Abstraction for Multimedia Toolkits." Funded July 1, 1994 - December 15, 1995 for \$23,332.

University of Minnesota Graduate School: "Software Platforms for Collaborative, Distributed, Interactive Applications." Funded October 1993 - December 15, 1994 for \$14,067.

### Royalty-Related Funding

Research share of University of Minnesota's interest in Net Perceptions, Inc. Managed as a quasi-endowment fund yielding between \$150,000 and \$200,000 per year to support research projects (with J. Riedl).

### Other Funding Activity

Faculty participant in several additional funded proposals including an NSF Instructional Laboratory Instrumentation grant and an NSF Research Instrumentation grant.

## **Academic Courses Created**

Computer Science 5110: User Interface Design, Implementation, and Evaluation  
first offering 1993-94, annually thereafter  
revised in 1999 to become CSci 5115 with new focus on real-world projects

Computer Science 5111: GUI Toolkits and Their Implementation  
first offering 1995-96, biennially thereafter  
revised in 1999 to become CSci 5116 with new focus on comparative evaluation of toolkits

Computer Science 8110: Human Computer Interaction and User Interface Technology  
first offering 1996-97, biennially thereafter  
revised for 2001 to become CSci 8115 with 50% additional material

Industrial Short Course: User Interfaces: A Hands-On Introduction  
first offering Summer 1995, annually or more frequently thereafter

Laboratory-Based Introduction to Procedural Programming in C (CSci 3113)  
first offering Fall 1995, offered quarterly by department faculty

Software Engineering 5115: User Interface Design and Evaluation  
designed for MS in Software Engineering program  
first offered Fall 1998, annually thereafter

Software Engineering 5116: Graphical User Interface Toolkits  
designed for MS in Software Engineering program  
first offered Spring 1999, periodically thereafter; will replace 5111 in Computer Science curriculum

Computer Science 1001: An Overview of Computer Science  
targeted at non-engineering students to provide an introduction to the core concepts of Computer Science  
first offered Spring 2005, scheduled for annual offering

Last updated: 2/2019

Computer Science 8001: Introduction to Research in Computer Science  
co-created as part of Ph.D. redesign committee  
co-taught pilot version of the course in Spring 2006  
teaching full year-long versions in 2007-2008, 2008-2009, 2015-2016.

Computer Science 5125: Collaborative and Social Computing  
co-created with Loren Terveen  
first offered Spring 2007, offered biennially thereafter.

Computer Science 5129 / Public Health 6000: Online Public Health Interventions  
co-created with a team from Public Health and Rhetoric  
co-taught first offering in Fall 2007, second in Fall 2008, third in Fall 2010.  
added to CSci curriculum (cross-listed) in 2010

### Online Courses

#### Recommender Systems

co-created with John Riedl, first offered with M.D. Ekstrand  
a MOOC offered Fall 2013 on Coursera and simultaneously as a for-credit course  
for U of M students  
converted into a Coursera “on Demand” course in February 2015  
converted into a 4-course plus Capstone “specialization” 2016-2017  
Total reach of these courses exceeds 175,000 visitors, 55,000 active participants, and 1440 completions. Paid enrollment in first course of 800 (prior versions were free) with 620 paid enrollments in the full four-course sequence.

#### User Interface Design

co-created with L. Terveen, B. Hecht, L. Yarosh, and H. Zhu as a 4-course plus Capstone Coursera specialization in 2016-2017; as of 3/1/18, a total of over 50,000 visitors and 12,500 active participants; paid enrollment exceeds 1375 in first course, with 236 completing four courses and 78 completing the full certificate.

### Students Advised

- Graduated:
- Brian Bailey (Ph.D. 2002, M.S. 1997)  
Dissertation topic: DEMAIS: A sketching tool for multimedia design  
Currently tenured Associate Professor at University of Illinois, Urbana-Champaign
  - Jilin Chen (Ph.D. 2011)  
Dissertation topic: Personalized Recommendation in Social Network Sites  
Formerly researcher at PARC, IBM Research  
Currently software engineer at Google
  - Michael Ekstrand (Ph.D. 2014)  
Dissertation topic: Recommender Engineering  
Formerly Assistant Professor at Texas State University  
Currently Assistant Professor at Boise State University
  - Max Harper (Ph.D. 2009; M.S. 2006)  
Dissertation topic: – Impact of Social Design on User Contributions to Online Communities  
Currently working at U of M as Research Associate (after two start-ups)
  - Jon Herlocker (Ph.D. 2000, M.S. 1998)  
Dissertation topic: Algorithmic and usage issues in collaborative filtering  
Formerly tenured Associate Professor at Oregon State  
Currently VP Technologist/Executive at VMware
  - Raghav Karumur (Ph.D. 2018)  
Dissertation Topic: Newcomer contributions in online peer-production  
Currently researcher at Target Corporation
  - Daniel Kluver (Ph.D. 2018)  
Dissertation Topic: Improvements in Holistic Recommender Systems Research  
Currently lecturer at Macalester College, starting as lecturer at University of Minnesota 1/19
  - Vikas Kumar (Ph.D. 2018)  
Dissertation Topic: Novelty and Familiarity in Recommender Systems  
Currently Data Scientist at KenSci
  - Pamela Ludford (Ph.D. 2007)  
Dissertation topic: Local information services

Currently consultant

Sean McNee (Ph.D. 2006, M.S. 2003)  
 Dissertation topic: Task-oriented recommendation, metrics, and research recommenders  
 Formerly Computing Research Scientist at Attenex (an FTI Consulting company)  
 Currently co-founder and CTO, Percognate

Tien Nguyen (Ph.D. 2016)  
 Dissertation Topic: User Experience with Recommender Systems beyond Accuracy  
 Currently Software Engineer, Data at Pinterest

Aditya Pal (Ph.D. 2012)  
 Dissertation topic: Expert identification in online communities  
 Formerly member of research staff at IBM Research.  
 Currently research scientist at Facebook

Alex Safonov (Ph.D. 2002, M.S. 1998)  
 Dissertation topics: Web macros  
 Formerly senior advanced engineer/scientist at General Dynamics AIS  
 Currently principal research scientist at Abbott Laboratories

Ben Schafer (Ph.D. 2001, M.S. 1999)  
 Dissertation topic: Meta-Recommender Systems  
 Currently Associate Professor at the University of Northern Iowa

Qian Zhao (Ph.D. 2018)  
 Dissertation Topic: Recommendation Meets User Experience  
 Currently Senior Research Engineer at Bloomberg LLP

Patrick Baudisch (Ph.D. 2001)  
 co-Advisor at the Technical University at Darmstadt, Germany  
 Dissertation topic: Dynamic information filtering  
 Currently Professor at Hasso Plattner Institute at the University of Potsdam

Badis Ben-Hamida (M.S. 1999 -- Topic: visualization of Java program performance)

Natalie Bennett (MSSE 1999 -- Topic: usability testing of software engineering processes)

Maketha Bridges (MSSE 2006 -- Topic: User interface for donor tracking)

Chad Brown (MSSE 1999 -- Topic: PDA interface design and implementation)

Randy Carpenter (MSSE 2005 -- Topic: Medical information system for cardiology)

Matthew Chadwick (MSSE 2004 -- Topic: Scheduling software for a summer camp)

Kun-Feng Chen (MSSE 1999 -- Topic: Interface and infrastructure for filtering Java methods)

Chad Cmejla (MSSE 2005 -- Topic: Software for software defect tracking/management)

Brent Dahlen (M.S. 1998 -- Topic: Sanitized ratings in collaborative filtering)

Rich Davies (MSSE 2003 -- Topic: Extreme Programming case study)

Xiao Dong (M.S. 2011 -- Topic: Interfaces for entity reference selection)

Ron Dosedel (MSSE 2005 -- Topic: Coronary Heart Disease web portal)

David Doyle (M.S. 2000 -- Topic: Personalized computer-based education)

Yvon Droliet (MSSE 2003 -- Topic: Extreme Programming case study)

Kurtis Halvorson (MSSE 2000 -- Topic: Generic Visual Basic templates)

Susan Herbst (M.S. 1996 -- Topic: UI design for counselor information system)

Zihong Huang (M.S. 2015 -- Topic: Precision Crowdsourcing)

Sunanda Iyengar (M.S. 1996 -- Topic: TclProp data propagation constraint system)

Daniel Jarratt (M.S. 2015 -- Topic: Distant neighbors in recommender systems)

Utkarsh Kajaria (M.S. Data Science 2017 -- Topic: Deep neural networks for recommender systems)

Anil Kashyap (M.S. 1996 -- Topic: UI prototype for physics laboratory CBT)

Vinod Krishnan (M.S. 2010 -- Topic: Human recommendation)

Chris Kwok (M.S. 1999 -- Topic: Java performance trace processing tools)

Chris Leitschuh, (MSSE 2007 -- Topic: Adapting Open-Source Software)

David Leppik (M.S. 1998 -- Topic: Partitioning in collaborative filtering)

Peksun Mak (MSSE 2000 -- Topic: XML for event calendars)

Arun Mannava (M.S. 2010 -- Topic: Integrating feeds into Q&A interfaces)

Sumit Mishra (M.S. 2000 -- Topic: Phone-based system for elderly exercise intervention)

Praveen Mittal (MSSE 2006 -- Topic: Managing volunteers to create online community)

Matthew Moore (MSSE 2000 -- Topic: Dermatology exam reporting interface)

Joe Morin (MSSE 1999 -- Topic: Interfaces and databases for a recommender system web site)

Mikko Niemioja (MSSE 2007 -- Topic: Visual autism survey)

Vajira Nissanka (M.S. 2002 -- Topic: Better web search through query modifications)  
 Mark O'Connor (M.S. 2000 -- Topic: Multi-user recommendation interfaces)  
 Alex Perez (MSSE 2005 -- Topic: Medical information system for cardiology)  
 Mile Petrov (M.S. 1998 -- Topic: Vocabulary size in speech recognition)  
 Ann Phillippi (M.S. 1995 -- Topic: Walkthrough usability analysis techniques)  
 Kien Quan (MSSE 1999 -- Topic: interfaces and databases for a recommender system web site)  
 Ramya Ramachandran (M.S. 1998 -- Topic: Neural net analysis of UI surveys)  
 Hany Ramadan (M.S. 1999 -- Topic: Enhancements to starfield/dynamic query interfaces)  
 Milinda Rambel-Stone (MSSE 1999 -- Topic: Usability testing of software engineering processes)  
 Rohan Sadale (M.S. Data Science 2017 -- Topic: Newcomer churn activity)  
 Royce Shin (M.S. 1995 -- Topic: Database and interface design for ISAP)  
 Kenny Shores (M.S. 2015 -- Topic: Disruptive behavior in online games)  
 Chandni Singh (M.S. 2016 -- Topic: Understanding personality from user behavior)  
 Tahir Souza Menezes (M.S. 2016 -- Topic: Movie trailer watching on MovieLens)  
 Kristin Storvick (M.S. 2008 (Scientific Computation) -- Topic: Combinatorial Product Search Interfaces)  
 Mark Swan (M.S. 1998 -- Topic: Managing computation in scientific visualization)  
 Larry Temple (M.S. 1998 -- Topic: Unix micro-kernel file system & instructional design)  
 Hongguo Tian (M.S. 2000 -- Topic: Search and indexing for news filtering services)  
 Sai Tong (M.S. 1994 -- Topic: Study of gopher usage patterns)  
 Masaki Utsumiya (M.S. 2009 -- Topic: Mining web usage data to estimate user satisfaction)  
 Duo Wang (MSSE 2000 -- Topic: Electronic data access interfaces)  
 Zheng Wang (MSSE 2004 -- Topic: Web interface for corporate document library)  
 Patrick Whalin (M.S. 2008 -- Topic: Usability)  
 Tom Zielund (M.S. 1997 -- Topic: Confidence displays in recommender systems)

Current Ph.D.: Ruoyan Kong (Current Topic: Communication Overload)  
 Taavi Tajjala (Current Topic: User Factors in Recommender Systems)

Former UG: Gabriel Aguirre (NSF REU -- Topic: Explanation interfaces for recommender systems)  
 George Atendido (UROP -- Topic: Collaborative filtering)  
 Mo DeJong (NSF REU -- Topic: Multimedia toolkits and authoring)  
 Kem Ferguson (MSDP -- Topic: Web site design)  
 Mary Bernadette Garza (MSDP -- Topic: UI for recommender systems)  
 Nathaniel Good (UROP & NSF REU -- Topic: Collaborative filtering & agents)  
 Ammon Hall (Honors research program -- Topic: Collaborative filtering)  
 Hae Young Kim (UROP -- Topic: Interactive web site design)  
 (NSF REU -- Topic: Statistical techniques for improving recommender systems)  
 Tony Lam (NSF REU & UROP -- Topic: Interface and experimental design for recommender systems)  
 Tim Lee (NSF REU & UROP -- Topic: Critique and community interfaces for recommender systems)  
 Daniel Moy (NSF REU & UROP -- Topic: Machine learning to support online Q&A sites)  
 J.J. Plude (IBMSF project -- Topic: Interactive visualization of trace trees)  
 Paul Sturm (UROP -- Topic: Interaction and interface design for ISAP)  
 Alan Wivell (IDIM -- Major: New Media Engineering)  
 (additional UG students conducted directed study)

## Presentations

### Keynotes and Invited Plenary Presentations

OHRP Research Community Forum: “Improvised Exemptions: A Soloist’s Perspective” – 9/17  
 ITU AI for Good Global Summit: Plenary panelist on Privacy, Security, Ethics, and Societal Challenges – 6/17  
 Recommender Systems Workshop. Caesarea Rothschild Insitute, University of Haifa: “Recommender Systems: Beyond Machine Learning” – 5/17  
 Fifth International Conference on Data Mining for Business Intelligence: “Recommender Systems: Beyond Machine Learning” – 5/17  
 International Conference on E-Democracy and E-Government Keynote: “Social and Participatory Computing: Lessons for E-Democracy and E-Government” – 4/17  
 BNY Mellon Machine Learning Day Keynote: “Recommender Systems: Lessons on Data Mining, Personalization, and User Experience” – 5/16  
 DMRS 2015 Invited Talk: “User Experience, Boundary Cases, and New Ways of Recommending” – 10/15

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CTS 2014 Keynote. "The Experimentalist's Manifesto: A Challenge for Social and Collaborative Computing" – 5/14

PRIM&R Advancing Ethical Research Conference 2013 Plenary Panel "Internet Research" -- 11/13

RecSys 2013 Doctoral Symposium. "Research in Academia" – 10/13

RecSys 2012 Workshop on Human Decision Making in Recommender Systems Keynote. "Decision-Making in Recommender Systems: Failures, Successes, and Research Directions" – 9/12

Mount Sinai IRB Education Retreat. "How Did You Know That About Me? Research Subject Identifiability, Anonymity, Informed Consent" – 5/12

PRIM&R Advancing Ethical Research Conference 2011 Plenary Panel "Was Your Last Blog Post, Search, Survey, or Biopsy Really Anonymous? What Is and Isn't Identifiable in 2011?" -- 12/11

Human Subjects Protection Conference (Cincinnati Region) "Ethical and Pragmatic Issues in Internet Research" – 9/11

Northwestern University T&SB Distinguished Speaker Series "Help is out there: Online Community, Community Artifacts, and new ways of harvesting knowledge" – 4/11

RecSysTEL Workshop 2010 "Recommender Systems in Education: Getting enough Data and Moving beyond Preferences" – 9/10

University of Pittsburgh Computer Science Distinguished Lecture Series: "Bridging Computing Science and Behavioral Science: Research Examples" – 11/09

Workshop on Search in Social Media at SIGIR 2009 – invited keynote: "Help is out there: Online Community, Community Artifacts, and new ways of finding and harvesting knowledge" – 7/09

EPFL Summer Research Institute – invited scholar: "User Experiences and Systems Issues with Online Recommender Systems" – 7/07

World Usability Day (Minneapolis) – invited Keynote: "Bridging Computer Science and Behavioral Science: Examples" – 11/06

Michigan World Usability Day – invited speaker: "User Experiences and Systems Issues with Online Recommender Systems" – 11/05

Third Artificial Intelligence Forum – invited Keynote: "Recommender Systems: Research Issues and User Experience" at ULBRA (the Lutheran University of Brazil), Canoas, Rio Grande do Sul, Brazil – 9/05

Advances in Recommender Systems Workshop – invited speaker: "Recommender Systems, Human Computer Interaction, and Evaluation" at the 2005 Biennial Israeli Symposium on Foundations of Artificial Intelligence, Haifa – 6/05

International Conference on Artificial Reality and Telexistence – invited speaker: "The Human Factor in Mobile and Wearable Technologies: Making the Transition from Science to Social Good" – 11/04

Univ. of Calif., Irvine, Inst. for Software Research Distinguished Lecture (Bridging Behavioral Science and Computer Science) 10/04

Computer Society of South Africa -- invited Keynote " Human factors in collaborative filtering/recommender systems" -- 2/02

CHI SouthIndia 2002 Conference -- invited Keynote Tutorial on User Interface Design -- 1/02

Rio de Janeiro Workshop on Human-Computer Interaction Research -- invited Keynote "The GroupLens Research Project" -- 8/01

Eighth International Conference on User Modeling -- invited speaker: "Heavyweight Applications of Lightweight User Model" -- 7/01

SIGIR 99 Recommender Systems Workshop -- Invited Keynote: "Recommender Systems: Opportunities and Obstacles" -- 8/99

Fifth DELOS Workshop on Collaborative Filtering -- distinguished speaker -- GroupLens Experience and Research Issues on Collaborative Filtering -- 11/97

### *Invited Talks to Academia and Industry*

University of British Columbia (Recommender Systems: Beyond Machine Learning) 10/18

Jheronimus Academy of Data Sciecn (Recommender Systems: Beyond Machine Learning) 5/18

Huawei STC (Recommender Systems: Beyond Machine Learning) 5/18

UMN TRIO Program Upward Bound (introducing public school students to computer science) 2/18

Hong Kong Baptist University (Recommender Systems: Beyond Machine Learning) 1/18

Barlow Research First Friday Webcast (Artificial Intelligence and Banking) 1/18

University of Minnesota Computer Science Colloquium (Recommender Systems: Beyond Machine Learning) 11/17

Syracuse University (Recommender Systems: Beyond Machine Learning) 10/17

Fudan University (Recommender Systems: Beyond Machine Learning) 6/17

Microsoft, Herzliya (Recommender Systems: Current Research and Applications) 5/17

Yahoo! Research, Haifa (Recommender Systems: Beyond Machine Learning) 5/17

IBM Research, Haifa (Recommender Systems: Current Research) 5/17

UMN TRIO Program Upward Bound (introducing public school students to computer science) 4/17

Boise State University (Recommender Systems: Beyond Machine Learning) 2/17

UMN Honors Program Retreat (Recommender Systems) 4/16

UMN TRIO Program Upward Bound (introducing public school students to computer science) 3/16

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University of Minnesota St. Croix Valley Alumni Network (Online Community; New Ways to Harness Knowledge) 12/15  
Stanford HCI Seminar (Through the Experimentalists Lens: Social Computing Research in Balance) 2/15  
Rochester Institute of Technology—ACM Lecture (Recommender Systems) 5/14  
MIT Media Lab (Recommender Systems and HCI) 11/13  
Huawei Noah's Ark Lab (Overview of Social Computer Research) 10/13  
Google (Online Communities and New Ways of Harnessing Knowledge) 6/11  
University of Minnesota Science and Engineering Day (Online Communities and New Ways of Harnessing Knowledge) 3/11  
University of Hawaii at Manoa (Panel: Conducting Research in Academia, Government, Industry) 1/11  
University of Hawaii at Manoa (Online Communities and New Ways of Harnessing Knowledge) 1/11  
Harvard University (Online Communities and New Ways of Harnessing Knowledge) 11/10  
Stanford University (Online Communities and New Ways of Harnessing Knowledge) 6/10  
Cornell University (Internet Survey Research: Ethical Issues and Practical Advice) 2/10  
Usability Professionals Association, Minnesota Chapter (Online Community) 2/10  
North Dakota State University (Internet Research: Ethical Issues and Practical Advice) 9/09  
Hasso Plattner Institute, University of Potsdam (Online Community and New Ways of Harnessing Knowledge) 6/09  
Hasso Plattner Institute, University of Potsdam (Recommender Systems) 6/09  
University of Girona (Online Community and New Ways of Harnessing Knowledge) 5/09  
Telefonica R&D, Barcelona (Recommender Systems) 5/09  
Autodesk (Recommender Systems) 2/09  
University of British Columbia (Bridging Behavioral Science and Computer Science) 6/08  
Microsoft Silicon Valley Center (Online Question-Answering Sites) 5/08  
Microsoft Bay Area Research Center (Online Question-Answering Sites) 2/08  
Japan Science and Technology Agency (Faculty Role in Reducing Research Administrative Burden) 2/08  
EPFL (Bridging Behavioral Science and Computer Science) 7/07  
UMN New Media Research Breakfast (Online Community) 4/07  
UMN CSci 8001 Graduate Research Course (HCI) 3/07  
UMN MSSE Seminar (HCI) 10/06  
University of Maryland (Bridging Behavioral Science and Computer Science) 9/06  
CNR, Italy (Recommender Systems) 6/06  
Humboldt University (Bridging Behavioral Science and Computer Science) 6/06  
SIGCHI Bangalore (Recommender Systems) 6/06  
HCISIG, Sydney Australia (Bridging Behavioral Science and Computer Science) 6/06  
University of Sydney (Recommender Systems) 6/06  
University of Sydney (Building an HCI Curriculum) 6/06  
University of Melbourne (Bridging Behavioral Science and Computer Science) 6/06  
Monash University (Recommender Systems) 6/06  
New Zealand HCI Workshop (Recommender Systems) 6/06  
University of Waikato (Bridging Behavioral Science and Computer Science) 6/06  
Puget Sound SIGCHI Chapter (Recommender Systems) 5/06  
IBM TJ Watson Research Center (GroupLens Research) 12/05  
University of Michigan (Bridging Behavioral Science and Computer Science) 11/05  
Michigan State University (GroupLens Research) 11/05  
Michigan State University (Building an HCI Curriculum) 11/05  
Federal University of Rio Grande do Sul, Brazil (GroupLens Research) 9/05  
University of Haifa (GroupLens Research) 6/05  
DFKI Saarbrücken (GroupLens Research) 6/05  
University of Freiburg (GroupLens Research) 6/05  
Unilever Corporate Research (Research Overview) 12/04  
Singapore Computer Society (User Interface Design) 12/04  
Nanyang Technological University, Singapore (Bridging Behavioral Science and Computer Science) 12/04

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University of Tokyo (Bridging Behavioral Science and Computer Science) 12/04  
Shanghai Jiaotong University (GroupLens Research) 12/04  
ACM SIGCHI China Chapter, Opening Meeting (HCI, SIGCHI, ACM, and related topics) 12/04  
Microsoft Research Asia (Bridging Behavioral Science and Computer Science) 12/04  
Microsoft Research (Bridging Behavioral Science and Computer Science) 7/04  
Northwestern University (GroupLens Research) 5/04  
University of South Florida (IEEE Lecture – User Interface Design) 4/04  
Microsoft Bay Area Research Center (Research Overview) 3/04  
University of Minnesota Statistics Colloquium (Sex, Lies, and Video Disks) 12/03  
University of Wisconsin, Eau Claire (Bridging Behavioral Science and Computer Science) 12/03  
University of Saskatchewan (GroupLens Research) 11/03  
University of Saskatchewan (Bridging Behavioral Science and Computer Science) 11/03  
University of California, Berkeley (Bridging Behavioral Science and Computer Science) 10/03  
University of Minnesota, Kinesiology 3505/5505 (User Interface Design) 10/03  
IEEE Long Island Chapter (IEEE Lecture – User Interface Design) 6/03  
New Jersey Institute of Technology (GroupLens Research) 6/03  
University of Minnesota, Duluth (GroupLens Research) 3/03  
Miami University, Ohio (ACM Lecture -- GroupLens Research) 1/03  
Retek (HCI Overview) 11/02  
NIH Panel on Structural Interventions in HIV Research (Technology and Internet Research) 11/02  
U of M MIS Research Center (Collaborative Filtering, with J. Riedl) 9/02  
University of York, England (Interfaces to Alleviate Information Overload) 5/02  
University of Sunderland, England (GroupLens Research) 5/02  
Napier University, Scotland (Interfaces to Alleviate Information Overload) 5/02  
University of Glasgow, Scotland (Interfaces to Alleviate Information Overload) 5/02  
University College, London, England (Interfaces to Alleviate Information Overload) 5/02  
Cambridge University, England (Interfaces to Alleviate Information Overload) 5/02  
University of Limerick, Ireland (Interfaces to Alleviate Information Overload) 5/02  
Edina Rotary (Applications of Collaborative Filtering) 4/02  
Carleton College (ACM Lecture -- GroupLens Research) 4/02  
Kinesiology 5720 (Human Factors Issues with User Interface Design) 4/02  
Sony Computer Science Laboratories, Japan (Interfaces to Alleviate Information Overload) 3/02  
Osaka University, Japan (Interfaces to Alleviate Information Overload) 3/02  
ATR, Japan (GroupLens Research) 3/02  
University of Tsukuba, Japan (Interfaces to Alleviate Information Overload) 3/02  
UNISA, South Africa (GroupLens Research) 2/02  
University of Pretoria, South Africa (Multimedia Authoring) 2/02  
University of Port Elizabeth, South Africa (Interfaces to Alleviate Information Overload) 2/02  
University of Aarhus, Denmark (GroupLens Research) 2/02  
Academy of Economical Studies, Romania (GroupLens Research) 2/02  
University Lucian Blaga, Romania (Multimedia Authoring) 2/02  
Allegheny College (ACM Lecture -- GroupLens Research) 2/02  
Microsoft Research Asia, China (GroupLens Research) 1/02  
City University of Hong Kong (GroupLens Research) 1/02  
Hong Kong University of Science and Technology (GroupLens Research) 1/02  
Kent Ridge Digital Laboratories, Singapore (GroupLens Research) 1/02  
National University of Singapore (GroupLens Research) 1/02  
CHI North India (GroupLens Research) 1/02  
IBM India Research Lab (GroupLens Research) 1/02  
Cognizant Corp, India (User Interface Design) 1/02

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Namahn, Belgium (Multimedia Authoring) 12/01  
CERTI, Belgium (GroupLens Research) 12/01  
University of Limberg and BelCHI, Belgium (GroupLens Research) 12/01  
Eurecom, France (GroupLens Research) 12/01  
Xerox Research Center Europe, France (GroupLens Research) 11/01  
INRIA Rhône-Alpes, France (Multimedia Authoring) 11/01  
Eurisco and SIGCHI Toulouse, France (GroupLens Research) 11/01  
University of California, Berkeley, Human-Centered Computing Seminar (GroupLens Research) 11/01  
Vrije Universiteit and SIGCHI.NL, Amsterdam, Netherlands (GroupLens Research) 11/01  
University of Oldenburg, Local ACM Chapter and GI Chapter, Germany (GroupLens Research) 10/01  
Fraunhofer Gesellschaft (former GMD) Bonn, Germany (GroupLens Research) 10/01  
SIGCHI Austria and Center for Usability Research and Engineering, Austria (GroupLens Research) 10/01  
Kinesiology 5505 -- Introduction to Human-Centered Design (HCI Overview) 10/01  
MERL -- Mitsubishi Electric Research Laboratories (GroupLens Research) 10/01  
University of Massachusetts, Lowell (ACM Lecture -- GroupLens Research) 10/01  
MITRE Corporation (GroupLens Research) 10/01  
KTH (Royal Institute of Technology), Sweden (Interfaces to Alleviate Information Overload) 9/01  
University of Linköping, Sweden (GroupLens Research) 9/01  
Cell Networks, Sweden (Future of HCI) 9/01  
STIMDI (Swedish HCI Society), Sweden (Future of HCI) 9/01  
Swedish Institute of Computer Science, Sweden (GroupLens Research) 9/01  
Federal University of Rio Grande do Norte, Brazil (GroupLens Research) 8/01  
State University of São Paulo, São Carlos, Brazil (GroupLens Research) 8/01  
Federal University of São Carlos, Brazil (GroupLens Research and Distance Learning) 8/01  
Federal University of Santa Catarina, Brazil (GroupLens Research) 8/01  
Universidade do Sul de Santa Catarina, Brazil (GroupLens Research) 8/01  
State University of Maringá, Brazil (GroupLens Research) 8/01  
University of Tampere, Finland (GroupLens Research) 7/01  
GMD IPSI, Darmstadt, Germany (GroupLens Research) 3/01  
Accenture Center for Strategic Technology Research (GroupLens Research) 1/01  
North Dakota State University (ACM Lecture: GroupLens Research) 5/00  
University of Central Florida (ACM Lecture: GroupLens Research) 3/00  
INCOSE (Systems Engineers Association) (Introductory talk on User Interfaces) 3/00  
TwinSPIN (Twin Cities software process improvement network) (Introductory talk on User Interfaces) 5/99  
Carlson School of Management (GroupLens Research) 4/99  
Allegheny College (ACM Lecture: GroupLens Research) 12/98  
UMN Computer Science Colloquium (spiral visualization, with J. Carlis) 11/98  
IT 1001 (freshman seminar) (Introductory talk on User Interfaces) 11/98  
UMN MSSE Seminar (Internet, World Wide Web, and HCI) 10/98  
MITRE (GroupLens Research) 8/98  
Information Advantage (GroupLens Research) 7/98  
Donaldson Company (Introductory talk on User Interfaces) 6/98  
Columbia University (GroupLens Research) 5/98  
UMN Health Informatics Colloquium (Introductory talk on User Interfaces) 4/98  
Twin Cities Chapters ASIS/SLA (Introductory talk on User Interfaces) 3/98  
University of Maryland Baltimore County (GroupLens Research) 2/98  
University of Maryland College Park (GroupLens Research) 2/98  
UMN Cognitive Science Colloquium (Internet, World Wide Web, and HCI) 1/98  
DEC Systems Research Center (GroupLens Research) 7/97  
Xerox PARC (GroupLens Research) 7/97

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Sun Microsystems Laboratories (GroupLens Research) 7/97  
 IBM Almaden Research Center (GroupLens Research) 7/97  
 Mitsubishi Electric Research Lab (GroupLens Research) 7/97  
 UMN Cognitive Science Proseminar (GroupLens Research) 5/97  
 Plymouth Schools Young Science Program (communication through the Internet) 4/97  
 Metropolitan State University (Multimedia Systems: Command Streams, Authoring, Synchronization) 3/97  
 UMN Undergraduate Computer Science Colloquium (Web architectures for interaction) 3/97  
 UMN Computer Science Colloquium (algorithmic issues in collaborative filtering) 2/97  
 UMN Pharmacology Seminar (ISAP) 10/96  
 Hazelden Chemical Dependency Clinic (ITreS presentation) 6/96  
 DataCard (Advanced talk on User Interface Design/Evaluation) 5/96  
 Instrument Society of America (Internet, World Wide Web, and HCI) 5/96  
 Xerox PARC (Multimedia Systems: Command Streams, Authoring, Synchronization) 3/96  
 Sun Microsystems Laboratories (Multimedia Systems: Command Streams, Authoring, Synchronization) 3/96  
 Loral (Introductory talk on User Interfaces) 1/96  
 UMN Computer Science Colloquium (multimedia command streams) 1/96  
 IT Alumni Association (Internet, World Wide Web, and HCI) 1/96  
 Stanford University (GroupLens Research) 11/95  
 Harvard University (Multimedia Systems: Command Streams, Authoring, Synchronization) 11/95  
 University of Toronto (Multimedia Systems: Command Streams, Authoring, Synchronization) 7/95  
 DataCard (Introductory talk on User Interfaces) 4/95  
 U.W. Milwaukee (Multimedia Systems: Command Streams, Authoring, Synchronization) 3/95  
 UMN Center for Learning, Perception and Cognition (Introductory talk on User Interfaces) 2/95  
 Honeywell Technology Center (Internet, World Wide Web, and HCI) 2/95  
 UMN Computer Science Colloquium (human interfaces to prediction systems) 1/95  
 U.C. Berkeley (Multimedia Systems: Command Streams, Authoring, Synchronization) 10/94

### *Conference and Workshop Presentations*

REVEAL 2018 Workshop (From User Experience to Offline Metrics and Back Again) 10/18  
 ACM SAC 2018 (Newcomer Retention in Online Production Groups) 4/18  
 Dagstuhl Perspectives Workshop on Predictable Performance across IR/RecSys/NLP (End-to-End Recommender Systems) 10/17  
 FARCON 2017 (Recommender Systems: Beyond Machine Learning) 7/17  
 Dato Data Science Summit 2016 (Recommender Systems) 7/16  
 PRIM&R Advancing Ethical Research Conference 2013 (Public Behavior and Consent) 11/13  
 RepSys Workshop 2013 (at RecSys 2013) (Best Practices in Algorithmic Research) 10/13  
 Human Computer Interaction Consortium (HCIC 2013) (Human Subjects and Ethical Issues in Research) 6/13  
 AGHO Internet Research Experts Meeting (Recruitment and Validity in the MINTS Studies) 12/12  
 PRIM&R Advancing Ethical Research Conference 2012 (What You Need to Know About Privacy and Confidentiality) 12/12  
 AAAI 2012 (Research Highlights and Directions in HCI) 7/12  
 HCIC 2012 (Discussant on Emotional Expression in Social Media) 6/12  
 PRIM&R SBE Conference (Data Security and Ethical Online Research) 4/11  
 Sex::Tech 2011 (The Role of an HCI Researcher in Sexual Health Research) 3/11  
 RecSys 2010: Panel on "Contests: Way Forward or Detour?" 9/10  
 Web Research 4 Beginners: Online Conference: Internet Research: Doing Virtual Research Virtuously – 6/09  
 Radcliffe Institute Seminar on Cooperation Design: Designing Online Communities to Improve Participation – 3/09  
 PRIM&R Advancing Ethical Research Conference 2008 – Internet Research: Doing Virtual Research Virtuously – 11/08  
 E-Social-Science 2007 -- Online Field Experiments: Lessons from CommunityLab – 10/07  
 AAAI 2006 -- Lessons on Applying Automated Recommender Systems to Information Seeking Tasks – 7/06  
 CNI Fall Task Force Meeting Project Briefing -- TechLens: Exploring the Use of Recommenders to Support Users of Digital Libraries – 12/05

NSF Future of the Survey Interview Workshop at University of Michigan -- Online survey ethics and pragmatics: Lessons from two HIV risk assessment studies -- 11/05

HCI International 2005 -- Lessons Learned in Implementing the CHIplace Online Community -- 7/05

Unilever Spark Workshop on Behavior Change through Automated Dialog -- Behavior Change through Recommenders -- 11/04

HCI 2003 -- MovieLens Unplugged: Experiences with a Recommender System on Four Mobile Devices -- 9/03

ECSCW 2001 -- "PolyLens: A Recommender System for Groups of Users" -- 9/01

AAAI 99 -- "Combining Collaborative Filtering with Personal Agents for Better Recommendations" -- 7/99

CHI 99 Recommender Systems Workshop -- "Toward Research Resources for Recommender Systems" -- 5/99

CSCW 98 -- "Filterbots in GroupLens" (with J. Riedl) -- 11/98

UIST '98 -- "Interactive Visualization of Serial Periodic Data" (with J. Carlis) -- 11/98

AAAI Workshop on Recommender Systems -- "No Filter is an Island" -- 7/98

Software Publishers' Association 13th Annual Conference -- "The Web Value Chain" -- 9/97

IFIP WG 13.1 Workshop on Teaching Design of Interactive Systems -- "The Overnight Staff" -- 5/97

CHI 97 Basic Research Symposium -- "Creating Multimedia System Toolkits" and "The GroupLens Research Project: Exploring Collaborative Filtering" -- 3/97

Usenix Annual Technical Conference -- "Experiences with GroupLens: Making Usenet Useful Again" -- 1/97

AMIA Fall Symposium -- "Web-Based Delivery and Open-Architecture Database Support in the ITreS Counselor Information System" -- 10/96

Collaborative Filtering Workshop at U.C. Berkeley -- "GroupLens Collaborative Filtering System" -- 3/96

Tcl/Tk Workshop -- "TclProp: A Data-Propagation Formula Manager for Tcl and Tk." -- 7/95

Tcl/Tk Workshop -- "Tcl Commands as Media in a Distributed Multimedia Toolkit." -- 7/95

CHI 95 Basic Research Symposium -- "Fulfilling the Promise of Multimedia: Intelligent and Usable Multimedia Applications" -- 4/95

1994 International Conference on Consumer Electronics -- "State Problems in Human-Controlled Devices" -- 6/94

### *Demonstrations and Laboratory Tours*

GroupLens Social Computing Research (Grad Revels @Northrop) 4/14

TechLens: A Researcher's Desktop (RecSys 2007) 10/07

Agents '98 laboratory tour (GroupLens project) 5/98

IT Week laboratory tour (GroupLens project) 5/98 and 5/01

IT Week laboratory tour (Multimedia projects) 5/97 and 5/96

CSCW 96 -- "GroupLens Collaborative Filtering System" (refereed demonstration) -- 11/96

### *Short Courses and Tutorials*

S.P. Jain School of Global Management -- three day short-course on Recommender Systems for Data Science program 11/18

PRIM&R Advancing Ethical Research Conference 2013 -- full-day course on Regulatory, Ethical, and Technical Challenges in Internet Research (with E. Buchanan and L. Odwazny) 11/13

PRIM&R Webinar: Online Research, Social Media, and the IRB: Assessing Ethics, Norms, and Risks (with E. Buchanan) 3/13

PRIM&R Advancing Ethical Research Conference 2012 -- full-day course on Regulatory, Ethical, and Technical Challenges in Internet Research (with E. Buchanan and L. Odwazny) 12/12

ACM Learning Webinar: Recommender Systems: The Power of Personalization 9/12

IUI 2011 -- half-day tutorial on HCI for Intelligent Systems 1/11

RecSys 2010 -- short tutorial on HCI for Recommender Systems 9/10

SIGMOD 2008 -- half-day tutorial on Recommender Systems 6/08

SIGIR 2007 -- half-day tutorial on Recommender Systems 7/07

Technical University of Catalonia -- 5 day short course on UI design and HCI 5/07

AH 2006 -- half-day tutorial on Advanced issues in Recommender Systems 6/06

AAAI 2004 -- full-day tutorial on Recommender Systems (with J. Riedl and A. Jameson) 7/04

CHI 2004 -- invited hour-long tutorial on the structure of the field of HCI 4/04

IJCAI 2003 -- half-day tutorial on Recommender Systems (with J. Riedl and A. Jameson) 8/03

CHI 2003 -- full day tutorial on Recommender Systems (with J. Riedl) 4/03

IUI 2003 -- half-day tutorial on Recommender Systems (with J. Riedl) 1/03

CSCW 2002 -- full-day tutorial on Recommender Systems (with J. Riedl) 11/02

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AAAI 2002 -- full-day tutorial on Recommender Systems (with J. Riedl and A. Jameson) 7/02  
 CHI SouthIndia 2002 Conference -- invited Keynote Tutorial on User Interface Design 1/02  
 FH Joanneum (Graz, Austria) -- one-credit short course on Collaborative Filtering and User Interface Design (15 hours) 10/01  
 ACM CSCW 2000 Conference -- full-day tutorial on Recommender Systems (with J. Riedl) 12/00  
 ACM E-Commerce Conference 2000 -- half day tutorial on Recommender Systems for E-Commerce (with J. Riedl) 10/00  
 National Computer Systems (full-day short course on UI design for the Web) 11/99  
 ASIS MN 1999 Continuing Education Class (user interfaces, information overload, internet) 3/99  
 Tcl/Tk Workshop -- 1/2 day tutorial on constraint programming (with A. Safonov) -- 7/97  
 Tutorial at Usenix Winter Technical Conference (introduction to user interfaces) 1/97  
 UMN "Hot Topics" half-day course (Internet, HCI, Object-Oriented Programming with J. Riedl) 6/96  
 Loral (Lockheed Martin) (20 hour course on UI design) 6/96

### Panels and Other Talks

Saint Paul JCC: "Net Neutrality" – 2/18  
 Indivisible MN03 Podcast: "Net Neutrality" – 2/18  
 Barlow Research First Friday Webinar: "AI in Banking" – 1/18  
 RecSys 2017 Panel on The Present and Future of RecSys: Are We on the Right Track? (panelist) – 8/17  
 Data Skeptic Podcast (Recommender Systems: Metrics and User Experience) – 7/17  
 ITU AI For Good Global Summit: Panel on Key Performance Indicators (panelist) – 6/17  
 ITU AI For Good Global Summit: Panel on Humans and Machines (co-organizer / moderator) – 6/17  
 WWW 2016: Panel on Test of Time Award and Recommender Systems – 5/16  
 SXSW Interactive 2016: Panel on Ethical Issues in Social Computing Research (organizer / moderator) – 4/16  
 CCC Workshop on Theoretical Foundations of Social Computing: Panel – 6/15  
 CRA Snowbird 2014: Panel on The Future of Scholarly Publication (co-organizer / moderator) – 7/14  
 CTS 2014: Panel on Goals and Challenges of Collaboration in Healthcare – 5/14  
 RepSys 2013 Workshop: Panel on Directions towards Replicable Research – 10/13  
 RecSys 2012 Workshop on Context-Aware Recommender Systems: Panel on Industrial Application of Context-Aware Recommendation – 9/12  
 UMAP 2012: Panel on "Advances Made and Challenges Ahead" – 7/12  
 CHI 2012: Organized/Chaired Panel on "Creating Great User Experience: Facing the Challenges Ahead" – 5/12  
 ACM RecSys 2011 Conference: Panel on "Recommender Systems and the Filter Bubble" – 10/11  
 UCERSTI::2 Workshop at RecSys 2011: Panel on "Recommender System Evaluation – Creating a Unified, Cumulative Science" – 10/11  
 UCERSTI Workshop at RecSys 2010 (Panel: User-Centered Evaluation) 9/10  
 ACM Recommender Systems 2010 (Panel: Contests: Way Forward or Detour) 9/10  
 Cornell University (Ethical and Pragmatic Issues in Online Surveys) 2/10  
 URJ Great Lakes Biennial – "Social Computing 101: Reaching the Digital Generation" – 11/08  
 MSR Faculty Summit 2008 – "Artificial Intelligence Theory and Practice: Hard Challenges and Opportunities Ahead" – 7/08  
 MSR Faculty Summit 2008 – "Networks, Social Science, and Education: TeaCHING, Linking, and Thinking About Connection" – 7/08  
 JSTA (Japan Science and Technology Agency) – "Faculty Participation in Streamlining Research Administration" – 2/08  
 FDP Winter Meeting – "A Faculty Perspective on Modular Budgets" – 1/08  
 National Academies Government-University-Industry Research Roundtable – "FDP Update" – 2/06  
 NCURA Annual Meeting – "FDP Update" – 11/05  
 Critical Issues in eHealth Research Conference (NIH) – "Ethics of eHealth Research" – 6/05  
 SRA Western Section meeting – "FDP Update" – 5/05  
 IJCAI 2003 Doctoral Symposium Advisor/Panelist – 8/03  
 CHI 2003 – "Spam, Spam, Spam, Spam – How can we stop it?" (Panelist) – 4/03  
 User Modeling 2001 -- "Industry Panel" (Panelist) -- 7/01  
 CHI 2001 -- "Start-up or Ph.D." (Panelist) -- 4/01  
 RASTEC (Rhetoric student group) Panel on 2000 Presidential Election -- 11/00  
 Mount Zion Brotherhood -- "Starting an Internet Company: From Idea to IPO" -- 2/00  
 Last updated: 2/2019

Saint Paul JCC (GroupLens Research) 12/99

Minnesota Digital Technology Summit -- Session Chair and Panel Organizer -- 10/97

NSF Interactive Systems Grantees Workshop -- Panel Chair and Moderator -- 8/97

AMIA Fall Symposium -- "Computer Technology, The Internet, and Mental Health Care Informatics" (Panel) -- 10/96

Tcl/Tk Workshop -- "The Future of Tcl/Tk" (Panel) -- 7/96

ACM Multimedia Conference -- "Multimedia Education" (Panel) -- 11/95

Tcl/Tk Workshop -- "Tcl/Tk in the Classroom" (Panel) -- 7/95

Minority Round Table (research in Computer Science) 7/94

## **Technology Transfer and Consulting**

Schulman Associates IRB

External member of IRB (Human Subjects Review Committee) since January 2016.

Evidentia Health, Inc.

Company developed from technology developed at the U of M to enhance radiology reports with literature recommendations and other enhancements. Am part of team that developed technology and have an advisory/consulting role in the company. Collaboration with several people here and at Mayo Clinic.

Founder, Net Perceptions, Inc.

Co-founder and then consulting scientist at Net Perceptions, a company founded to commercialize the GroupLens collaborative filtering project. Company was founded in July 1996 and grew to become the industry leader. Net Perceptions grew to over three hundred employees at its peak with headquarters in Minnesota and various sales offices nationwide. The company hit economic difficulties with the Internet downturn and its assets were eventually acquired.

FXPAL

Consulting advisor focusing on research directions and project evaluations.

Internet Broadcasting Systems, Inc.

Served as consultant focusing on usability and user-centered design issues for the leading developer of television station news websites. Worked with IBS on the usability reviews and evaluations for the NBCOlympics.com web site (which they developed and deployed for the 2004 games).

Technical Advisory Board, Sistina Software, Inc.

Served as technical advisor to a company specializing in global file systems and the administrative tools for configuring them. Sistina was purchased by Red Hat.

Advisory Board, i5 Digital, LLC

Served as advisor to Internet start-up incubator that owns several small companies.

Principal Consulting Scientist, Essex Consulting, Inc.

Served as consultant to a small business that was developing a counselor information system for substance abuse counselors. Collaborated on NIH grants (including a subcontract through the U of M) and providing general technical and business guidance.

IBM San Francisco Project

Project with P. Yew and D. Lilja to develop advanced Java performance tracing and visualization tools.

Aurora Technology

Project with R. Ritenour to jointly develop and test next-generation radiology workstation. Focus was on multiple monochrome displays with detailed image control capabilities.

HA Technical Solutions

Initially served as expert witness in software copyright case. Later consulted for firm that is developing and marketing high availability software solutions for workstations and servers.

HealthTel.net

Advisor of start-up company seeking to develop telephone-based behavioral health care monitoring and behavior-change systems.

IdeaServices

Founded by L. Lichtblau to commercialize ISAP pharmacology education web site. Site operates at

Last updated: 2/2019

<http://www.university.com/ISAP> (free for academic use). No involvement other than initial development of ISAP (licensed to IdeaServices in exchange for perpetual use license for U of M students).

Tcl Consortium.

Founding Member of Board of Directors

NextFavorite

Advisor to start-up company seeking to develop affinity marketing/recommender systems brand.

Other Consulting and Advisory Roles

Serve as consultant to several small and mid-sized companies in Minnesota, including National Computer Systems and Anlon Systems. Serve as expert witness in several intellectual property cases with local and national law firms. Also have taught short courses to several larger local companies including National Computer Systems and Lockheed Martin.

## **Major Department/University Service Activities (since Fall 1999)**

- 2018-2019      Mentoring Committee for Junior Faculty  
Faculty Consultative Committee (Chair, Fall) and Senate Consultative Committee (Chair, Fall)  
U of M Senate (ex officio, Fall)  
President's Policy Committee (ex officio, Fall)  
Regents Award Committee (ex officio, Fall)  
Vice President for Research Search Committee  
U of M President's Initiative to Prevent Sexual Misconduct Steering Committee (Fall)  
U of M Alternate Faculty Representative to Federal Demonstration Partnership (Fall)  
Council of Research Associate Deans (Spring)  
Center for Transportation Studies Executive Committee (Spring)
- 2017-2018      Department Strategic Planning Committee  
Mentoring Committee for Junior Faculty  
Faculty Consultative Committee (Chair) and Senate Consultative Committee (Chair)  
U of M Senate (ex officio)  
Regents Award Committee (ex officio)  
U of M President's Initiative to Prevent Sexual Misconduct Steering Committee  
U of M Alternate Faculty Representative to Federal Demonstration Partnership
- 2016-2017      Department Strategic Planning Committee  
Mentoring Committee for Junior Faculty  
Faculty Consultative Committee (vice-Chair) and Senate Consultative Committee  
U of M Senate (ex officio)  
U of M Alternative Faculty Representative to Federal Demonstration Partnership  
Search Committee for vice-President for Research  
Grand Challenge Research Proposal Review Committee  
Graduate School Grievance Hearing Panel
- 2015-2016      co-Director SOBACO  
Mentoring Committees for Junior Faculty  
Department Strategic Planning Committee  
Untenured Faculty Evaluation Committee  
Faculty Consultative Committee and Senate Consultative Committee (elected)  
U of M Senate (ex officio)  
Senate Committee on Faculty Affairs  
U of M Alternative Faculty Representative to Federal Demonstration Partnership  
Search Committee for vice-Provost for Academic Affairs
- 2014-2015      Associate Department Head  
co-Director SOBACO  
Mentoring Committees for Junior Faculty  
Untenured Faculty Evaluation Committee  
Department Search Committee for MNdrive Faculty  
Department Search Committee for Instructors (chair)

Last updated: 2/2019

Department Search Committee for Communications Coordinator  
U of M Senate (elected)  
Chair, Senate Committee on Faculty Affairs  
liaison to Regents Committee on Faculty and Staff Affairs  
Faculty Consultative Committee and Senate Consultative Committee  
U of M Alternate Faculty Representative to Federal Demonstration Partnership

2013-2014 Associate Department Head  
co-Director SOBACO  
Liaison to Industrial Affiliates Council and Computer Science Associates (through 4/14)  
Mentoring Committees for Junior Faculty  
Search Committee for Social Computing Faculty  
University Strategic Planning Workgroup  
co-Chair of Research Subgroup  
U of M Senate (elected)  
Chair, Senate Committee on Faculty Affairs  
liaison to Regents Committee on Faculty and Staff Affairs  
Faculty Consultative Committee  
Ad Hoc Committee on Software Copyright Policy  
U of M Alternate Faculty Representative to Federal Demonstration Partnership

2012-2013 Associate Department Head  
co-Director SOBACO  
Chair, Industrial Relations and External Affairs Committee  
Mentoring Committees for Junior Faculty  
Department Curriculum Committee  
U of M Senate (elected)  
Senate Committee on Faculty Affairs  
SCFA Task Force on Faculty Development Leaves  
Graduate Education Council  
Graduate School Academic Grievance Officer  
Graduate Education Council Nominating Committee  
U of M Alternate Faculty Representative to Federal Demonstration Partnership

2011-2012 Associate Department Head  
Chair, Industrial Relations and External Affairs Committee  
Mentoring Committees for Junior Faculty  
U of M Senate (elected)  
Senate Committee on Faculty Affairs  
Graduate Education Council  
Graduate School Academic Grievance Officer  
U of M Alternate Faculty Representative to Federal Demonstration Partnership

2010-2011 Associate Department Head  
Chair, Industrial Relations and External Affairs Committee  
Chair, Instructor Evaluation Committee  
Mentoring Committees for Junior Faculty  
Teaching Load/Assignment Policy Committee  
U of M Senate (elected)  
Provisional Graduate Education Council  
U of M Alternate Faculty Representative to Federal Demonstration Partnership

2009-2010 Associate Department Head  
Chair, Industrial Relations and External Affairs Committee  
Chair, Instructor Evaluation Committee

Mentoring Committees for Junior Faculty  
 U of M Senate (elected)  
 Senate Committee on Finance and Planning  
 U of M Alternate Faculty Representative to Federal Demonstration Partnership

2008-2009 Associate Department Head  
 Chair, Department Computing Committee  
 Mentoring Committees for Junior Faculty  
 Senate Committee on Finance and Planning  
 IT Instructional Computing Committee  
 WPE Revision Committee  
 U of M Alternate Faculty Representative to Federal Demonstration Partnership

2007-2008 Chair, Department Computing Committee  
 Elected Member, Department Strategic Planning and Advisory Committee  
 Department Awards Committee  
 Mentoring Committees for Junior Faculty (chair and member)  
 U of M Faculty Representative to Federal Demonstration Partnership  
 U of M Senate (elected)  
 Senate Committee on Finance and Planning  
 IT Instructional Computing Committee

2006-2007 Chair, Department Faculty-Staff Relations Committee  
 Chair, Department Computing Committee  
 Mentoring Committees for Junior Faculty  
 U of M Faculty Representative to Federal Demonstration Partnership  
     vice-Chair of FDP (through 1/07), service on FDP Strategic Planning Committee  
 U of M Senate (elected)  
 Senate Committee on Finance and Planning  
 IT Instructional Computing Committee

2005-2006 Chair, Department Ph.D. Program Revision Committee  
 Elected Member, Department Strategic Planning and Advisory Committee  
 Mentoring Committees for Junior Faculty  
 U of M Faculty Representative to Federal Demonstration Partnership  
     vice-Chair of FDP, service on FDP Strategic Planning Committee  
 U of M Senate (elected)  
 Senate Committee on Finance and Planning  
 IT Committee to Re-Evaluate IT Computer Labs and Fees

2004-2005 Director of Graduate Studies, Computer Science  
 Department Head Search Committee, Computer Science  
 Department Curriculum Committee  
 Elected Member, Department Strategic Planning Committee  
 Mentoring Committees for Junior Faculty  
 Engineering, Physical, and Mathematical Sciences Policy and Review Council  
 U of M Faculty Representative to Federal Demonstration Partnership  
     Chair of Faculty Publications Subcommittee of the FDP; Later vice-Chair of FDP  
 Senate Committee on Finance and Planning  
 Electronic Effort Certification Oversight Committee

2003-2004 Director of Graduate Studies, Computer & Information Sciences  
 Department Curriculum Committee  
 Development of Department Vision White Paper  
 Mentoring Committees for Junior Faculty  
 Engineering, Physical, and Mathematical Sciences Policy and Review Council  
 U of M Faculty Representative to Federal Demonstration Partnership  
     Chair of Faculty Publications Subcommittee of the FDP  
 University Senate  
 Senate Committee on Finance and Planning  
 Provost's Task Force to Study Year-Round (Trimester) Operation  
 Electronic Effort Certification Oversight Committee

2002-2003	Director of Graduate Studies, Computer & Information Sciences Department Advisory Committee Department Curriculum Committee Mentoring Committees for Junior Faculty Engineering, Physical, and Mathematical Sciences Policy and Review Council U of M Faculty Representative to Federal Demonstration Partnership University Senate Senate Committee on Finance and Planning Senate Task Force to re-Draft Governance Policy
2001-2002	<on sabbatical> Mentoring Committees for Junior Faculty University Senate Graduate School Committee to re-Draft Constitution Committee to develop Usability Laboratory
2000-2001	Director of Graduate Studies, Software Engineering Department Advisory Committee Mentoring Committees for Junior Faculty Joint Psych/CSE Faculty Search Committee Department Web Redesign Committee Graduate School Committee to re-Draft Constitution Physical Sciences Policy and Review Council Senate Committee on Finance and Planning Subcommittee on Twin Cities Facilities and Support Services Ad Hoc University Committee on Data Collection Policy
1999-2000	Director of Graduate Studies, Software Engineering Department Advisory Committee Recruiting Committee Colloquium Chair IT/DTC Design Faculty Search Committee Joint Psych/CSE Faculty Search Committee Physical Sciences Policy and Review Council

## **Legal Consulting**

Optimize Technology Solutions LLC v. Staples, Inc. et al (\* eight co-defendants) (2013-2015)  
a patent case involving web site customization  
law firm: Klarquist Sparkman LLP  
prepared expert reports; was deposed

Walker Digital LLC vs. Amazon.com Inc. et al. (\* four co-defendants) (2012-2013)  
a patent case involving e-commerce  
law firm: Klarquist Sparkman LLP

Lodsys Group LLC v. Dell Inc.  
a patent case involving printer interfaces  
law firm: Winston & Strawn LLM

FlatWorld Interactives LLC vs. Apple Inc. (\*) (2012-2013)  
a patent case involving user interfaces  
law firm: Bridges & Mavrakakis  
prepared expert declaration; prepared and delivered Markman tutorial to Court

Motorola Mobility vs. Apple Inc. (\*) (2012-2013)  
a patent case involving smart phone interfaces  
law firm: Bridges & Mavrakakis  
prepared expert declaration

Northbrook Digital vs. Vendio Services (\*) (2009-2010)  
a patent case involving e-commerce  
law firm: Howrey LLP  
prepared expert report

Individual Network vs. Apple Inc. (\*) (2009)  
a patent case involving recommender systems  
law firm: Howrey LLP  
prepared expert report; was deposed

APDC vs. Movielink (\*) (2008-2009)  
a patent case involving technology for limiting access to downloaded media  
law firm: Vinson and Elkins  
prepared expert reports and declarations

Geomas (\*) vs. Idearc (2007-2008)  
a set of patent cases involving online directory services  
law firm: Merchant & Gould

CD Intellectual Property (\*) vs. Amazon (2006)  
a patent case involving recommender systems  
law firm: Rothwell, Fig, Ernst & Manbeck  
prepared expert declaration for USPTO

Compuware Corporation (\*) vs. International Business Machines Corporation (2004-2005)  
a patent case in the area of user interfaces  
law firm: Fenwick & West  
prepared expert declaration

USA Video vs. MovieLink (\*) (2004-2005)  
a patent case involving multimedia transmission  
law firm: Sidley Austin Brown and Wood  
prepared expert report; was deposed

EPlus vs. Ariba (\*) (2004)  
a patent case involving electronic catalogs  
law firm: Howrey Simon Arnold & White  
prepared expert report

Microsoft Corporation (\*) vs. MultiTech Systems, Inc. (2002)  
a patent case involving voice over data transmission  
law firm: Sidley Austin Brown and Wood  
prepared expert declaration

Firepond, Inc. (\*) vs. Rightnow Technologies (2004)  
a patent case involving automated processing of e-mail  
law firm: Leonard, Street and Deinard

Gelco (\*) cs. Microstrategy (2003)  
a software license case  
law firm: Dorsey & Whitney

Gentra (\*) vs. Kluge (2002-2003)  
a copyright case involving industrial software  
law firm: Dorsey & Whitney

H.A. Technical Solutions (\*) vs. Rose Datasystems (1997)  
a copyright case involving high availability systems software  
law firm: Dorsey & Whitney  
produced expert report and was deposed