

Michael D. Ekstrand, Ph.D

CURRICULUM VITAE

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✧ EDUCATION ✧

Ph.D (2014) Computer Science, University of Minnesota.
Advisers: John T. Riedl and Joseph A. Konstan
B.S. (2007) Computer Engineering, Iowa State University.

✧ EMPLOYMENT HISTORY ✧

2023–present Assistant Professor, Dept. of Information Science, **Drexel University**
2022–2023 Associate Professor, Dept. of Computer Science, **Boise State University**
Co-director, People and Information Research Team (PIReT)
2016–2022 Assistant Professor, Dept. of Computer Science, **Boise State University**
Co-director, People and Information Research Team (PIReT)
2014–2016 Assistant Professor, Dept. of Computer Science, **Texas State University**
2008–2014 Graduate Research Assistant, GroupLens Research, **University of Minnesota**
Su 2012, F 2013 Instructor, **University of Minnesota**
Summer 2010 Research Intern, **Autodesk Research**, Toronto, CA
2007–2008, S 2011 Teaching Assistant, **University of Minnesota**
2005–2007 Undergrad RA, Scalable Computing Laboratory, **Iowa State University**

✧ STUDENTS ✧

Current Graduate Students

- ▶ Ngozi Ihemelandu (Ph.D, expected 2023)

Completed Graduate Students

- ▶ Amifa Raj (Ph.D 2023; Applied Scientist at Microsoft)
- ▶ Srabanti Guha (M.S. 2023; project: *Explaining Misallocated Exposure across Multiple Rankings*)
- ▶ Carlos Segura Cerna (M.S. 2020; project: *Recommendation Server for LensKit*; software engineer at Cradlepoint)
- ▶ Mucun Tian (M.S. 2019; thesis: *Estimating Error and Bias of Offline Recommender System Evaluation Results*; Sr. Scientist at Pandora)
- ▶ Vaibhav Mahant (M.S. 2016, Texas State University; thesis: *Improving Top-N Evaluation of Recommender Systems*; now at Sagezza / Goldman Sachs)
- ▶ Sushma Channamsetty (M.S. 2016, Texas State University; thesis: *Recommender Response to User Profile Diversity and Popularity Bias*; Sr. Software Engineer at Q2)
- ▶ Mohammed Imran R Kazi (M.S. 2016, Texas State University; thesis: *Exploring Potentially Discriminatory Biases in Book Recommendation*; software engineer at eBay)

- ▶ Shuvabrata Saha (M.S. 2016, Texas State University; co-advised with Dr. Apan Qasem; thesis: *A Multi-objective Autotuning Framework For The Java Virtual Machine*; software developer at PHEAA)

Undergraduate Student Research

I have supported and mentored the following undergraduate research students: Christine Pinney (BSU, UGRA + REU), Liana Shiroma (Colby Coll., REU 2021), Stephen Randall (U. Pitt, REU 2021), Connor Wood (BSU, REU 2020 + UGRA), Ananda Montoly (Smith Coll., REU 2020), Sandra Ambriz (BSU, HERC + UGRA).

Funding key:

- ▶ UGRA: undergraduate research assistant hired from research funds
- ▶ REU: Research Experience for Undergraduates
- ▶ HERC: Higher Education Research Consortium

⌘ RESEARCH FUNDING ⌘

External Grants

- ▶ 2023–2025: NSF 22-32553: *Collaborative Research: CCRI: New: A Research News Recommender Infrastructure with Live Users for Algorithm and Interface Experimentation* (\$1.4M; BSU PI, my share \$150K; PI Joseph A. Konstan, UMN).
- ▶ 2018–2024: NSF award CHS 17-51278: *CAREER: User-Based Simulation Methods for Quantifying Sources of Error and Bias in Recommender Systems* (\$514,081; PI). Total includes REU supplements.

Internal Grants

- ▶ 2017: Boise State College of Education Civility Grant *LITERATE: Locating Informational Texts for Engaging Readers And Teaching Equitably* (\$19K; co-PI; with PI Katherine Wright & co-PI Sole Pera)
- ▶ 2014: Texas State University Research Enhancement Program (competitive internal research grant) *Temporal Analysis of Recommender Systems* (\$8K; PI)

⌘ PUBLICATIONS ⌘

Author formatting key: myself, advised student, other student; †presenter, §undergraduate student.

Citation counts from Google Scholar.

Book Chapters

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|--------|--|
| RSHB3E | Michael D. Ekstrand, Anubrata Das, Robin Burke, and Fernando Diaz. 2022. “ Fairness in Recommender Systems ”. In <i>Recommender Systems Handbook</i> (3rd edition). Francesco Ricci, Lior Roach, and Bracha Shapira, eds. Springer-Verlag. DOI 10.1007/978-1-0716-2197-4_18. ISBN 978-1-0716-2196-7. Cited 10 times. |
| SocAcc | Daniel Kluver, Michael D. Ekstrand, and Joseph A. Konstan. 2018. “ Rating-Based Collaborative Filtering: Algorithms and Evaluation ”. In <i>Social Information Access</i> . Peter Brusilovsky and Daqing He, eds. Springer-Verlag, <i>Lecture Notes in Computer Science</i> vol. 10100, pp. 344–390. DOI 10.1007/978-3-319-90092-6_10. ISBN 978-3-319-90091-9. Cited 120 times. |

* These publications have citations merged in Google Scholar; count is reported on the most most final version, such as the journal expansion of a conference article.

Journal Publications

- TORS23 Michael D. Ekstrand, Ben Carterette, and Fernando Diaz. 2023. **“Distributionally-Informed Recommender System Evaluation”**. *Transactions on Recommender Systems* (August 2023). DOI 10.1145/3613455. arXiv:2309.05892.
- FNT22 Michael D. Ekstrand, Anubrata Das, Robin Burke, and Fernando Diaz. 2022. **“Fairness in Information Access Systems”**. *Foundations and Trends® in Information Retrieval* **16**(1–2) (July 2022), 1–177. DOI 10.1561/1500000079. arXiv:2105.05779. Impact factor: 8. Cited 72 times.
- UMUAI21 Michael D. Ekstrand and Daniel Kluver. 2021. **“Exploring Author Gender in Book Rating and Recommendation”**. *User Modeling and User-Adapted Interaction* **31**(3) (February 2021), 377–420. DOI 10.1007/s11257-020-09284-2. Impact factor: 4.412. Cited 135* times.
- AJIM20 Michael D. Ekstrand, Katherine Landau Wright, and Maria Soledad Pera. 2020. **“Enhancing Classroom Instruction with Online News”**. *Aslib Journal of Information Management* **72**(5) (June 2020), 725–744. DOI 10.1108/AJIM-11-2019-0309. Impact factor: 1.903. Cited 12 times.
- JOT16 Michael D. Ekstrand and Michael Ludwig. 2016. **“Dependency Injection with Static Analysis and Context-Aware Policy”**. *Journal of Object Technology* **15**(1) (February 2016), 1:1–31. DOI 10.5381/jot.2016.15.1.a1. Cited 14 times.
- TOCHI15 Joseph A. Konstan, J.D. Walker, D. Christopher Brooks, Keith Brown, and Michael D. Ekstrand. 2015. **“Teaching Recommender Systems at Large Scale: Evaluation and Lessons Learned from a Hybrid MOOC”**. *Transactions on Computer-Human Interaction* **22**(2) (April 2015). DOI 10.1145/2728171. Impact factor: 1.293. Cited 106* times.
- VLDB11 Justin J. Levandoski, Michael D. Ekstrand, Michael J. Ludwig, Ahmad Eldawy, Mohamed F. Mokbel, and John T. Riedl. 2011. **“RecBench: Benchmarks for Evaluating Performance of Recommender System Architectures”**. *Proceedings of the VLDB Endowment* **4**(11) (August 2011), 911–920. Acceptance rate: 18%. Cited 21 times.
- FNT11 Michael D. Ekstrand, John T. Riedl, and Joseph A. Konstan. 2011. **“Collaborative Filtering Recommender Systems”**. *Foundations and Trends® in Human-Computer Interaction* **4**(2) (February 2011), 81–173. DOI 10.1561/1100000009. Cited 1530 times.

Conference Publications

These papers have been published in peer-reviewed conference proceedings.

- WI23 [Ngozi Ihemelandu](#)[†] and Michael D. Ekstrand. 2023. **“Candidate Set Sampling for Evaluating Top-N Recommendation”**. To appear in *Proceedings of the 22nd IEEE/WIC International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT '23)*. Acceptance rate: 28%.
- SIGIR23-i [Ngozi Ihemelandu](#) and Michael D. Ekstrand[†]. 2023. **“Inference at Scale: Significance Testing for Large Search and Recommendation Experiments”**. Short paper in *Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '23)*. DOI 10.1145/3539618.3592004. arXiv:2305.02461.
- SIGIR23-q [Amifa Raj](#), Bhaskar Mitra, Michael D. Ekstrand[†], and Nick Craswell. 2023. **“Patterns of Gender-Specializing Query Reformulation”**. Short paper in *Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '23)*. DOI 10.1145/3539618.3592034. arXiv:2304.13129.

- CHIIR23 [Christine Pinney](#)^{†§}, [Amifa Raj](#), Alex Hanna, and Michael D. Ekstrand. 2023. “**Much Ado About Gender: Current Practices and Future Recommendations for Appropriate Gender-Aware Information Access**”. In *Proceedings of the 2023 Conference on Human Information Interaction and Retrieval* (CHIIR '23). DOI 10.1145/3576840.3578316. arXiv: 2301.04780. Acceptance rate: 39.4%. Cited 1 time.
- SIGIR22 [Amifa Raj](#)[†] and Michael D. Ekstrand. 2022. “**Measuring Fairness in Ranked Results: An Analytical and Empirical Comparison**”. In *Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval* (SIGIR '22). pp. 726–736. DOI 10.1145/3477495.3532018. Acceptance rate: 20%. Cited 15 times.
- UMAP21 [A. K. M. Nuhil Mehdy](#)[†], Michael D. Ekstrand, Bart Knijnenburg, and Hoda Mehrpouyan. 2021. “**Privacy as a Planned Behavior: Effects of Situational Factors on Privacy Perceptions and Plans**”. In *Proceedings of the 29th ACM Conference on User Modeling, Adaptation and Personalization* (UMAP '21). ACM. DOI 10.1145/3450613.3456829. arXiv: 2104.11847. Acceptance rate: 23%. Cited 9 times.
- WWW21 Ömer Kirnap[†], Fernando Diaz, Asia J. Biega, Michael D. Ekstrand, Ben Carterette, and Emine Yilmaz. 2021. “**Estimation of Fair Ranking Metrics with Incomplete Judgments**”. In *Proceedings of The Web Conference 2021* (TheWebConf 2021). ACM. DOI 10.1145/3442381.3450080. arXiv:2108.05152. Acceptance rate: 21%. Cited 28 times.
- CIKM20-LK Michael D. Ekstrand[†]. 2020. “**LensKit for Python: Next-Generation Software for Recommender Systems Experiments**”. In *Proceedings of the 29th ACM International Conference on Information and Knowledge Management* (CIKM '20, Resource track). ACM, pp. 2999–3006. DOI 10.1145/3340531.3412778. arXiv:1809.03125. No acceptance rate reported. Cited 63* times.
- CIKM20-EE Fernando Diaz[†], Bhaskar Mitra, Michael D. Ekstrand, Asia J. Biega, and Ben Carterette. 2020. “**Evaluating Stochastic Rankings with Expected Exposure**”. In *Proceedings of the 29th ACM International Conference on Information and Knowledge Management* (CIKM '20). ACM, pp. 275–284. DOI 10.1145/3340531.3411962. arXiv:2004.13157. Acceptance rate: 20%. Nominated for Best Long Paper. Cited 115 times.
- CHIIR20 [Mucun Tian](#) and Michael D. Ekstrand. 2020. “**Estimating Error and Bias in Offline Evaluation Results**”. Short paper in *Proceedings of the 2020 Conference on Human Information Interaction and Retrieval* (CHIIR '20). ACM, 5 pp. DOI 10.1145/3343413.3378004. arXiv:2001.09455. Acceptance rate: 47%. Cited 7 times.
- RECSYS18 Michael D. Ekstrand[†], [Mucun Tian](#), [Mohammed R. Imran Kazi](#), Hoda Mehrpouyan, and Daniel Kluver. 2018. “**Exploring Author Gender in Book Rating and Recommendation**”. In *Proceedings of the 12th ACM Conference on Recommender Systems* (RecSys '18). ACM, pp. 242–250. DOI 10.1145/3240323.3240373. arXiv:1808.07586v1. Acceptance rate: 17.5%. Citations reported under UMUIAI21.
- FAT18-ck Michael D. Ekstrand[†], [Mucun Tian](#), [Ion Madrazo Azpiazu](#), [Jennifer D. Ekstrand](#), [Oghenemaro Anuyah](#), [David McNeill](#)[§], and Maria Soledad Pera. 2018. “**All The Cool Kids, How Do They Fit In?: Popularity and Demographic Biases in Recommender Evaluation and Effectiveness**”. In *Proceedings of the 1st Conference on Fairness, Accountability and Transparency* (FAT* 2018). PMLR, *Proceedings of Machine Learning Research* **81**:172–186. Acceptance rate: 24%. Cited 190 times.

- FAT18-FP Michael D. Ekstrand[†], [Rezvan Joshaghani](#), and Hoda Mehrpouyan[†]. 2018. **“Privacy for All: Ensuring Fair and Equitable Privacy Protections”**. In *Proceedings of the 1st Conference on Fairness, Accountability and Transparency (FAT* 2018)*. PMLR, *Proceedings of Machine Learning Research* **81**:35–47. Acceptance rate: 24%. Cited 74 times.
- FLAIRS17-S Michael D. Ekstrand[†] and [Vaibhav Mahant](#). 2017. **“Sturgeon and the Cool Kids: Problems with Random Decoys for Top-N Recommender Evaluation”**. In *Proceedings of the 30th International Florida Artificial Intelligence Research Society Conference (Recommender Systems track)*. AAAI, pp. 639–644. No acceptance rate reported. Cited 13 times.
- FLAIRS17-RR [Sushma Channamsetty](#) and Michael D. Ekstrand[†]. 2017. **“Recommender Response to Diversity and Popularity Bias in User Profiles”**. Short paper in *Proceedings of the 30th International Florida Artificial Intelligence Research Society Conference (Recommender Systems track)*. AAAI, pp. 657–660. No acceptance rate reported. Cited 15 times.
- RECSYS15 Michael D. Ekstrand[†], Daniel Kluver, F. Maxwell Harper, and Joseph A. Konstan. 2015. **“Letting Users Choose Recommender Algorithms: An Experimental Study”**. In *Proceedings of the 9th ACM Conference on Recommender Systems (RecSys ’15)*. ACM. DOI 10.1145/2792838.2800195. Acceptance rate: 21%. Cited 108 times.
- RECSYS14 Michael D. Ekstrand[†], F. Maxwell Harper, Martijn C. Willemsen, and Joseph A. Konstan. 2014. **“User Perception of Differences in Recommender Algorithms”**. In *Proceedings of the 8th ACM Conference on Recommender Systems (RecSys ’14)*. ACM. DOI 10.1145/2645710.2645737. Acceptance rate: 23%. Cited 234 times.
- L@S14 Joseph A. Konstan[†], J.D. Walker, D. Christopher Brooks, Keith Brown, and Michael D. Ekstrand. 2014. **“Teaching Recommender Systems at Large Scale: Evaluation and Lessons Learned from a Hybrid MOOC”**. In *Proceedings of the First ACM Conference on Learning @ Scale (S ’14)*. ACM. DOI 10.1145/2556325.2566244. Acceptance rate: 37%. Citations reported under TOCHI15*.
- RECSYS13 Tien T. Nguyen[†], Daniel Kluver, Ting-Yu Wang[§], Pik-Mai Hui[§], Michael D. Ekstrand, Martijn C. Willemsen, and John Riedl. 2013. **“Rating Support Interfaces to Improve User Experience and Recommender Accuracy”**. In *Proceedings of the 7th ACM Conference on Recommender Systems (RecSys ’13)*. ACM. DOI 10.1145/2507157.2507188. Acceptance rate: 24%. Cited 56 times.
- RECSYS12-B Daniel Kluver[†], Tien T. Nguyen, Michael Ekstrand, Shilad Sen, and John Riedl. 2012. **“How Many Bits per Rating?”**. In *Proceedings of the Sixth ACM Conference on Recommender Systems (RecSys ’12)*. ACM, pp. 99–106. DOI 10.1145/2365952.2365974. Acceptance rate: 20%. Cited 41 times.
- RECSYS12-F Michael Ekstrand[†] and John Riedl. 2012. **“When Recommenders Fail: Predicting Recommender Failure for Algorithm Selection and Combination”**. Short paper in *Proceedings of the Sixth ACM Conference on Recommender Systems (RecSys ’12)*. ACM, pp. 233–236. DOI 10.1145/2365952.2366002. Acceptance rate: 32%. Cited 76 times.
- EDBT12 Justin J. Levandoski[†], Mohamed Sarwat, Mohamed F. Mokbel, and Michael D. Ekstrand. 2012. **“RecStore: An Extensible And Adaptive Framework for Online Recommender Queries Inside the Database Engine”**. In *Proceedings of the 15th International Conference on Extending Database Technology (EDBT ’12)*. ACM, pp. 86–96. DOI 10.1145/2247596.2247608. Acceptance rate: 23%. Cited 18 times.

- RECSys11 Michael D. Ekstrand[†], Michael Ludwig, Joseph A. Konstan, and John T. Riedl. 2011. **“Rethinking The Recommender Research Ecosystem: Reproducibility, Openness, and LensKit”**. In *Proceedings of the Fifth ACM Conference on Recommender Systems (RecSys '11)*. ACM, pp. 133–140. DOI 10.1145/2043932.2043958. Acceptance rate: 27% (20% for oral presentation, which this received). Cited 226 times.
- UIST11 Michael Ekstrand[†], Wei Li, Tovi Grossman, Justin Matejka, and George Fitzmaurice. 2011. **“Searching for Software Learning Resources Using Application Context”**. In *Proceedings of the 24th Annual ACM Symposium on User Interface Software and Technology (UIST '11)*. ACM, pp. 195–204. DOI 10.1145/2047196.2047220. Acceptance rate: 25%. Cited 53 times.
- RECSys10 Michael D. Ekstrand[†], Praveen Kannan, James A. Stempter, John T. Butler, Joseph A. Konstan, and John T. Riedl. 2010. **“Automatically Building Research Reading Lists”**. In *Proceedings of the 4th ACM Conference on Recommender Systems (RecSys '10)*. ACM, pp. 159–166. DOI 10.1145/1864708.1864740. Acceptance rate: 19%. Cited 118 times.
- WikiSym09 Michael D. Ekstrand[†] and John T. Riedl. 2009. **“rv you're dumb: Identifying Discarded Work in Wiki Article History”**. In *Proceedings of the 5th International Symposium on Wikis and Open Collaboration (WikiSym '09)*. ACM, 10 pp. DOI 10.1145/1641309.1641317. Acceptance rate: 36%. Selected as Best Paper. Cited 34 times.

Workshops, Seminars, Posters, Etc.

These papers have been peer-reviewed for workshops, poster proceedings, and similar venues.

- FACCTREC23 [Amifa Raj](#) and Michael D. Ekstrand[†]. 2023. **“Towards Measuring Fairness in Grid Layout in Recommender Systems”**. Presented at the *6th FAccTrec Workshop on Responsible Recommendation* (peer-reviewed but not archived). DOI 10.48550/arXiv.2309.10271. arXiv: 2309.10271.
- FACCTREC22 Michael D. Ekstrand[†] and Maria Soledad Pera. 2022. **“Matching Consumer Fairness Objectives & Strategies for RecSys”**. Presented at the *5th FAccTrec Workshop on Responsible Recommendation* (peer-reviewed but not archived). DOI 10.48550/arXiv.2209.02662. arXiv:2209.02662.
- SIGIREC22 [Amifa Raj](#)[†] and Michael D. Ekstrand. 2022. **“Fire Dragon and Unicorn Princess: Gender Stereotypes and Children's Products in Search Engine Responses”**. In *SIGIR eCom '22*. DOI 10.48550/arXiv.2206.13747. arXiv:2206.13747. Cited 2 times.
- RSPE21-INF [Ngozi Ihemelandu](#)[†] and Michael D. Ekstrand. 2021. **“Statistical Inference: The Missing Piece of RecSys Experiment Reliability Discourse”**. In *Proceedings of the Perspectives on the Evaluation of Recommender Systems Workshop 2021 (RecSys '21)*. DOI 10.48550/arXiv.2109.06424. arXiv:2109.06424. Cited 3 times.
- RSLBR21 [Lawrence Spear](#)[†], [Ashlee Milton](#), [Garrett Allen](#), [Amifa Raj](#), [Michael Green](#), Michael D. Ekstrand, and Maria Soledad Pera. 2021. **“Baby Shark to Barracuda: Analyzing Children's Music Listening Behavior”**. In *RecSys 2021 Late-Breaking Results (RecSys '21)*. DOI 10.1145/3460231.3478856. Cited 3 times.
- KIDREC21 [Amifa Raj](#)[†], [Ashlee Milton](#), and Michael D. Ekstrand. 2021. **“Pink for Princesses, Blue for Superheroes: The Need to Examine Gender Stereotypes in Kids' Products in Search and Recommendations”**. In *Proceedings of the 5th International and Interdisciplinary Workshop on Children & Recommender Systems (KidRec '21)*, at IDC 2021. DOI 10.48550/arXiv.2105.09296. arXiv:2105.09296. Cited 4 times.

- FACCTREC20 [Amifa Raj](#)[†], [Connor Wood](#)[§], Ananda Montoly[§], and Michael D. Ekstrand. 2020. **“Comparing Fair Ranking Metrics”**. Presented at the *3rd FAccTrec Workshop on Responsible Recommendation* (peer-reviewed but not archived). DOI 10.48550/arXiv.2009.01311. arXiv:2009.01311. Cited 21 times.
- RSDEMOS19 [Ashlee Milton](#)^{†§}, [Michael Green](#), [Adam Keener](#), [Joshua Ames](#)[§], Michael D. Ekstrand, and Maria Soledad Pera. 2019. **“StoryTime: Eliciting Preferences from Children for Book Recommendations”**. Demo recorded in *Proceedings of the 13th ACM Conference on Recommender Systems* (RecSys '19). 2 pp. DOI 10.1145/3298689.3347048. Cited 12 times.
- COMPLEXREC18 Michael D. Ekstrand, [Jon Madrazo Azpiazu](#)[†], Katherine Landau Wright, and Maria Soledad Pera. 2018. **“Retrieving and Recommending for the Classroom: Stakeholders, Objectives, Resources, and Users”**. In *Proceedings of the ComplexRec 2018 Second Workshop on Recommendation in Complex Scenarios* (ComplexRec '18), at RecSys 2018. Cited 7 times.
- REVEAL18-MC [Mucun Tian](#)[†] and Michael D. Ekstrand. 2018. **“Monte Carlo Estimates of Evaluation Metric Error and Bias”**. *Computer Science Faculty Publications and Presentations* 148. Boise State University. Presented at the *REVEAL 2018 Workshop on Offline Evaluation for Recommender Systems*, a workshop at RecSys 2018. DOI 10.18122/cs_facpubs/148/boisestate. Cited 1 time.
- REVEAL18-LK Michael D. Ekstrand[†]. 2018. **“The LKPY Package for Recommender Systems Experiments: Next-Generation Tools and Lessons Learned from the LensKit Project”**. *Computer Science Faculty Publications and Presentations* 147. Boise State University. Presented at the *REVEAL 2018 Workshop on Offline Evaluation for Recommender Systems*, a workshop at RecSys 2018. DOI 10.18122/cs_facpubs/147/boisestate. arXiv:1809.03125v1. Citations reported under CIKM20-lk*.
- KIDREC18 Maria Soledad Pera[†], Katherine Wright, and Michael D. Ekstrand. 2018. **“Recommending Texts to Children with an Expert in the Loop”**. In *Proceedings of the 2nd International Workshop on Children & Recommender Systems* (KidRec '18), at IDC 2018. DOI 10.18122/cs_facpubs/140/boisestate. Cited 6 times.
- CHIPRIV18 [Rezvan Joshaghani](#)[†], Michael D. Ekstrand, Bart Knijnenburg, and Hoda Mehrpouyan. 2018. **“Do Different Groups Have Comparable Privacy Tradeoffs?”**. At *Moving Beyond a 'One-Size Fits All' Approach: Exploring Individual Differences in Privacy*, a workshop at CHI 2018. Cited 2 times.
- RSPOSTERS17 Michael D. Ekstrand[†] and Maria Soledad Pera. 2017. **“The Demographics of Cool: Popularity and Recommender Performance for Different Groups of Users”**. In *RecSys 2017 Poster Proceedings*. CEUR, *Workshop Proceedings* **1905**. Cited 15 times.
- KIDREC17 Michael D. Ekstrand[†]. 2017. **“Challenges in Evaluating Recommendations for Children”**. In *Proceedings of the International Workshop on Children & Recommender Systems* (KidRec), at RecSys 2017. Cited 8 times.
- RECSYS16 Michael D. Ekstrand[†] and Martijn C. Willemsen. 2016. **“Behaviorism is Not Enough: Better Recommendations through Listening to Users”**. In *Proceedings of the Tenth ACM Conference on Recommender Systems* (RecSys '16, Past, Present, and Future track). ACM. DOI 10.1145/2959100.2959179. Acceptance rate: 36%. Cited 100 times.

- HEALTHREC16 [Jennifer D. Ekstrand[†]](#) and Michael D. Ekstrand. 2016. **“First Do No Harm: Considering and Minimizing Harm in Recommender Systems Designed for Engendering Health”**. In *Proceedings of the Workshop on Recommender Systems for Health at RecSys '16*. Cited 11 times.
- CSW14 Michael D. Ekstrand. 2014. **“Building Open-Source Tools for Reproducible Research and Education”**. At *Sharing, Re-use, and Circulation of Resources in Cooperative Scientific Work*, a workshop at CSCW 2014.
- RSDemos11 Michael D. Ekstrand[†], Michael Ludwig, Jack Kolb[§], and John T. Riedl. 2011. **“LensKit: A Modular Recommender Framework”**. Demo recorded in *Proceedings of the 5th ACM Conference on Recommender Systems (RecSys '11)*. ACM, pp. 349-350. DOI 10.1145/2043932.2044001. Cited 43 times.

Other Articles

These are articles that have appeared in magazines and similar venues; they have typically undergone some form of editorial review, but not usually full peer review.

- Michael D. Ekstrand, Maria Soledad Pera, and Katherine Landau Wright. 2023. **“Seeking Information with a ‘More Knowledgeable Other’”**. *ACM Interactions* **30**(1) (January 2023), 70–73. DOI 10.1145/3573364. Cited 1 time.
- Nasim Sonboli, Robin Burke, Michael Ekstrand, and Rishabh Mehrotra. 2022. **“The Multisided Complexity of Fairness in Recommender Systems”**. *AI Magazine* **43**(2) (June 2022), 164–176. DOI 10.1002/aaai.12054. Cited 6 times.
- Alexandra Olteanu, Jean Garcia-Gathright, Maarten de Rijke, Michael D. Ekstrand, Adam Roegiest, Aldo Lipani, Alex Beutel, Ana Lucic, Ana-Andreea Stoica, Anubrata Das, Asia Biega, Bart Voorn, Claudia Hauff, Damiano Spina, David Lewis, Douglas W Oard, Emine Yilmaz, Faegheh Hasibi, Gabriella Kazai, Graham McDonald, Hinda Haned, Iadh Ounis, Ilse van der Linden, Joris Baan, Kamuela N Lau, Krisztian Balog, Mahmoud Sayed, Maria Panteli, Mark Sanderson, Matthew Lease, Preethi Lahoti, and Toshihiro Kamishima. 2019. **“FACTS-IR: Fairness, Accountability, Confidentiality, Transparency, and Safety in Information Retrieval”**. *SIGIR Forum* **53**(2) (December 2019), 20–43. DOI 10.1145/3458553.3458556. Cited 32 times.
- 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. 2018. **“The Dagstuhl Perspectives Workshop on Performance Modeling and Prediction”**. *SIGIR Forum* **52**(1) (June 2018), 91–101. DOI 10.1145/3274784.3274789. Cited 15 times.

Tutorials

- Michael D. Ekstrand, Fernando Diaz, and Robin Burke. 2019. **“Fairness and Discrimination in Recommendation and Retrieval”**. Tutorial presented at *Proceedings of the 13th ACM Conference on Recommender Systems (RecSys '19)*. 2 pp. DOI 10.1145/3298689.3346964. Cited 37 times.
- Michael D. Ekstrand, Fernando Diaz, and Robin Burke. 2019. **“Fairness and Discrimination in Retrieval and Recommendation”**. Tutorial presented at *Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '19)*. 2 pp. DOI 10.1145/3331184.3331380. Cited 40 times.

Other Publications and Presentations

These publications are unreviewed reports, preprints, abstract-only presentations, etc.

- Jonathan Stray, Alon Halevy, Parisa Assar, Dylan Hadfield-Menell, Craig Boutilier, Amar Ashar, Lex Beattie, Michael Ekstrand, Claire Leibowicz, Connie Moon Sehat, Sara Johansen, Lianne Kerlin, David Vickrey, Spandana Singh, Sanne Vrijenhoek, Amy Zhang, Mckane Andrus, Natali Helberger, Polina Proutskova, Tanushree Mitra, and Nina Vasan. 2022. **“Building Human Values into Recommender Systems: An Interdisciplinary Synthesis”**. DOI 10.48550/arXiv.2207.10192. arXiv:2207.10192. Cited 11 times.
- Michael D. Ekstrand, Graham McDonald, [Amifa Raj](#), and Isaac Johnson. 2022. **“Overview of the TREC 2021 Fair Ranking Track”**. In *The Thirtieth Text REtrieval Conference (TREC 2021) Proceedings* (TREC 2021). <https://trec.nist.gov/pubs/trec30/papers/Overview-F.pdf>. Cited 11 times.
- Michael D. Ekstrand. 2021. **“Multiversal Simulacra: Understanding Hypotheticals and Possible Worlds Through Simulation”**. DOI 10.48550/arXiv.2110.00811. arXiv:2110.00811. Cited 1 time.
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Software and Data

I have built several open-source software packages and data sets in the course of my research and other work. Open-source software distribution and open data are key pieces of my research dissemination strategy. My most significant development efforts are:

- ▶ *LensKit*, a toolkit for building, researching, and studying recommender systems. As of Nov. 1, 2022, the original Java software (in development 2010–2018; paper [RecSys11](#)) is known to be used in 70 papers and theses and was used by over 2500 students to complete programming assignments in the

Recommender Systems MOOC. The Python software (2018–, papers [CIKM20-LK](#) and [REVEAL18-LK](#)) is used in over 30 papers, theses, and educational resources, including the PBS show *Crash Course AI*, and has been downloaded over 9000 times from the Python Package Index in the last 6 months (according to PyPIStats). The current version is 0.14.2, released on July 16, 2022; it is the 23rd release of LensKit for Python.

<https://lenskit.org> (current list of known uses: <https://lenskit.org/research/>)

- ▶ *Book Data Tools*, software tools to integrate multiple public sources of book and book consumption data into a data set for studying social effects in book publication, reading, and recommendation. Used in [UMUAI21](#) and [RecSys18](#). <https://bookdata.piret.info>

My work has also produced a number of utility packages to support this software and other efforts, including:

- ▶ *seedbank*, a Python package for consistently seeding random number generators. <https://seedbank.lenskit.org>
- ▶ *csr*, a Python package for managing sparse matrices in CSR format compatible with the Numba JIT for scientific python, and with Intel MKL acceleration for several operations. <https://csr.lenskit.org>
- ▶ *binpickle*, a Python package for saving scientific data structures (such as machine learning models) to disk in either compressed or memory-mappable format. LensKit uses this package to serialize models for both storage and shared-memory parallelism. <https://binpickle.lenskit.org>
- ▶ *happylog*, a Rust package for easily configuring log output for command-line programs. <https://github.com/mdekstrand/happylog>
- ▶ *GraphT*, a dependency injection framework for Java with novel configuration and static analysis capabilities (paper [JOT16](#)). <http://grapht.group.lens.org>

↻ INVITED TALKS ↻

- ▶ May 2023: Invited talk at ICA post-conference panel
- ▶ Mar. 2023: Seminar at the University of Texas at Austin HCI group
- ▶ Jan. 2023: Seminar at the University of Washington RAISE group
- ▶ Nov. 2022: Keynote at IBIS2022 (Information-Based Inductive Systems and Machine Learning) workshop (Tsukuba, Japan)
- ▶ Nov. 2022: Seminar at Waseda University (Japan)
- ▶ Oct. 2022: Keynote at EvalRS workshop on rounded evaluation of recommender systems at CIKM 2022
- ▶ Sep. 2022: Guest lecture on IR fairness and test collections for University of Maine IR course
- ▶ Mar. 2022: ‘You Might Also Think This Is Unfair’ at University of Michigan School of Information (online)
- ▶ Nov. 2021: ‘Information Systems for Human Flourishing’ at Vector Institute, Toronto, Canada (online)
- ▶ Oct. 2020: Guest lecture on recommender systems and fairness for Carnegie Mellon University Human-AI Interaction course
- ▶ Apr. 2020: Guest lecture on recommender systems and fairness for Emory University recommender systems course
- ▶ Mar. 2020: ‘User, Agent, Subject, Spy’ seminar at Boise State University Ph.D in Computing Colloquium
- ▶ Oct. 2019: ‘Online Recommendation: What? Where? Why? How?’ session at the Idaho Library Association 2019 Conference
- ▶ Aug. 2019: ‘User, Agent, Subject, Spy’ seminar at Microsoft Research Montréal
- ▶ Jul. 2019: ‘User, Agent, Subject, Spy’ seminar at Criteo AI Labs, Paris, France

- ▶ May 2019: ‘Recommendations, Decisions, Feedback Loops, and Maybe Saving the Planet’ at the CRA CCC Visioning Workshop on Economics and Fairness.
- ▶ Dec. 2018: ‘User, Agent, Subject, Spy’ seminar at Clemson University
- ▶ Nov. 2018: ‘User, Agent, Subject, Spy’ seminar at Carnegie Mellon University Human-Computer Interaction Institute
- ▶ Nov. 2018: Guest lecture on recommender systems for Carnegie Mellon University Human-AI Interaction course
- ▶ Nov. 2017: ‘Making Information Systems Good for People’ at Whitman College (Walla Walla, WA)
- ▶ Jun. 2017: ‘Recommending for People’ seminar at RecSysNL at TU Delft
- ▶ Jun. 2017: ‘Recommending for People’ seminar at Jheronimus Academy of Data Science
- ▶ Jun. 2017: ‘Recommending for People’ seminar at UCL Mons
- ▶ Jun. 2017: ‘Responsible Recommendation’ at the Brussels Big Data and Ethics Meetup, the inaugural event of the DigitYser Big Data community
- ▶ Nov. 2016: ‘Recommending for People’ colloquium at the University at Albany Dept. of Computer Science
- ▶ Oct. 2016: ‘Introduction to Recommender Systems’ at the Clearwater Developer Conference
- ▶ Sep. 2015: ‘Challenges in Scaling Recommender Systems Research’ at the Workshop on Large-Scale Recommender Systems at RecSys ’15 in Vienna, Austria
- ▶ Sep. 2015: ‘Levelling Up your Academic Career’ at the Doctoral Symposium at RecSys ’15 in Vienna, Austria
- ▶ Sep. 2012: ‘Flexible Recommender Experiments with LensKit’ at the RecSys Challenge Workshop at RecSys ’12 in Dublin, Ireland
- ▶ Sep. 2012: ‘The MovieLens Data Set’ (invited talk) at the RecSys Challenge Workshop at RecSys ’12 in Dublin, Ireland

↻ TEACHING ↻

Boise State University

Term	Course	Title	Credits	Students
S23	CS 538	<i>Recommender Systems</i>	3	12
F22	CS 533	<i>Intro to Data Science</i>	3	27
S22	CS 230	<i>Ethics in Computing</i>	3	61
F21	CS 533	<i>Intro to Data Science</i>	3	43
S21	CS 538	<i>Recommender Systems</i>	3	11
F20	CS 533	<i>Intro to Data Science</i>	3	22
S20	CS 697	<i>Equity and Discrimination</i>	3	3
S20	CS 410	<i>Databases</i>	3	36
F19	CS 533	<i>Intro to Data Science</i>	3	28
S19	CS 538	<i>Recommender Systems</i>	3	12
F18	CS 410/510	<i>Databases</i>	3	40
SU18	CS 310-HU	<i>Intro to Databases</i>	1	6
S18	CS 410/510	<i>Databases</i>	3	22
F17	CS 533	<i>Intro to Data Science</i>	3	22
S17	CS 597	<i>Recommender Systems</i>	3	13
F16	CS 410/510	<i>Databases</i>	3	28

Texas State University

- ▶ CS 4332 (Intro to Database Systems)
- ▶ CS 3320 (Internet Software Development)
- ▶ CS 5369Q/4379Q (Recommender Systems)
- ▶ CS 4350 (Unix Systems Programming)

Coursera

I co-created the Recommender Systems specialization on Coursera, along with its two previous single-class versions, with Joseph A. Konstan. This course has reached over 95,000 learners across its 3 iterations.

University of Minnesota

- ▶ Instructor for CS 5980-1 (Intro to Recommender Systems)
- ▶ Summer instructor for CS 1902 (Structure of Computer Programming II)
- ▶ TA for CSCI 5125 (Collaborative and Social Computing) and CSCI 1902

Teaching Professional Development

- ▶ Boise State University teaching portfolio faculty learning community.
- ▶ Boise State University *Ten for Teaching* program.
- ▶ Boise State University Center for Teaching and Learning *Course Design Institute*, a one-week intensive session in Summer 2017.
- ▶ CTL workshops on service learning, mastery-based grading, and other topics.
- ▶ Texas State University's *Program for Excellence in Teaching and Learning* (2014–2015).
- ▶ *Preparing Future Faculty* at the University of Minnesota.

↻ SERVICE ↻

Ongoing Professional Service, Memberships, and Honors

- ▶ Executive committee, *ACM Conference on Fairness, Accountability, and Transparency* (FAccT), 2020–2023
- ▶ Co-chair, FAccT Network, 2019–present
- ▶ Steering committee, *ACM Conference on Recommender Systems* (RecSys), 2017–present
- ▶ Steering committee, *ACM Conference on Fairness, Accountability, and Transparency* (FAccT), 2017–present (inaugural member)
- ▶ Senior Member of the Association for Computing Machinery

Program Committee and Editorial Service

- ▶ Track co-chair, Responsibility, Ethics, and Compliance, UMAP 2023
- ▶ Track co-chair, Fairness, Accountability, Transparency, and Ethics (FATE), TheWebConf 2023
- ▶ Program co-chair, *16th ACM Conference on Recommender Systems* (RecSys 2022)
- ▶ Guest editor, 2021 special issue of *User Modeling and User-Adapted Interaction* on fairness in user modeling.
- ▶ Distinguished Reviewer, *ACM Transactions on Interactive Intelligent Systems* (TiiS) (2017–present)
- ▶ *ACM Conference on Recommender Systems* (Senior PC 2019–2021, PC 2014–2017)
- ▶ *ACM Conference on Fairness, Accountability, and Transparency* (FAccT) (2018–2021, Area Chair 2018)
- ▶ *ACM CIKM* (Resource Track PC 2020–2021)
- ▶ *ACM SIGIR* (PC 2020–2021, 2023 Full and Short Papers; 2021 Perspective and Resource papers)
- ▶ NeurIPS Ethical Review panel (2021)
- ▶ *TheWebConf Track on Behavior Analysis and Personalization* (Senior PC 2021, PC 2016–2020)
- ▶ Track chair, *User Modeling and Adaptive Personalization* (UMAP) 2021

- ▶ *User Modeling and Adaptive Personalization* (2019–2020)
- ▶ *Workshop on Fairness, Accountability, and Transparency in Machine Learning* (FATML) (2017)
- ▶ FLAIRS Special Track on Recommender Systems (2015–2017)
- ▶ SAC Recommender Systems track (2013, 2017)
- ▶ Ad-hoc conference reviews for CHI, CSCW, IUI, UIST, WikiSym, UMAP, ICWSM.
- ▶ Reviewed for *Communications of the ACM*; ACM journals TDS, TOCHI, TIST, TOIS, TWEB, TKDD, and TIIS; IEEE journals TDSC and TKDE; *Interacting with Computers*; UMUAI; *Information Retrieval Journal*; *ACM Computing Surveys*; *Artificial Intelligence Review*; and others.
- ▶ Grant proposal reviews for NSF (US 2019, 2020, 2021, 2022), NWO (NL), FWF & WWTF (AT)

Other Professional Service

- ▶ Co-author and signatory, FAccT Statement on AI Harms and Policy (2023); covered by VentureBeat and The Hill (op-ed)
- ▶ Co-organizer, CRAFT panel “Theories of Change in Responsible AI” at FAccT 2023
- ▶ Ph.D symposium mentor, CIKM 2023
- ▶ Co-organizer, *SimuRec Workshop on Simulation and Synthetic Data for Recommender Systems* at RecSys 2021
- ▶ Sponsorship co-chair, ACM FAccT 2021–2022
- ▶ Doctoral symposium co-chair, RecSys 2020
- ▶ Organized and moderated panel at RecSys 2019 on responsible recommendation
- ▶ Co-organizer, TREC Track on Fairness in Information Retrieval (2019–2022)
- ▶ PR & Publicity co-chair, *2nd Conference on Fairness, Accountability, and Transparency* (ACM FAT* 2019)
- ▶ General co-chair, ACM RecSys 2018
- ▶ Publications working group, FAccT steering committee (2017)
- ▶ Co-organizer, FATREC Workshop on Responsible Recommendation at RecSys 2017, 2018, 2020, 2021
- ▶ Co-organizer, *Workshop on Fairness, Accountability, Confidentiality, Transparency, and Safety in Information Retrieval* (FACTS-IR) at SIGIR 2019
- ▶ Co-organizer, FairUMAP workshop at UMAP 2018–2020
- ▶ Track co-chair, 2018 *Conference on Fairness, Accountability, and Transparency* Systems track
- ▶ Participant in Dagstuhl Perspectives Workshop *Towards Cross-Domain Performance Modeling and Prediction: IR/RecSys/NLP*
- ▶ Publicity co-chair, ACM RecSys 2016
- ▶ External advisor, CrowdRec (EU Framework Programme collaborative research project, 2014–2016)
- ▶ Proceedings co-chair, ACM CHI 2012–2013
- ▶ Demos co-chair, ACM RecSys 2012

Department and University Service

- ▶ 2020–2021 CS Faculty Search Committee
- ▶ COEN SAGE Scholars Program Mentor (2019–2021)
- ▶ Boise State College of Engineering Curriculum Committee (2019–present)
- ▶ Boise State Ph.D in Computing Steering Committee (2017–present)
- ▶ Boise State CS Dept. Curriculum Committee (2017–present)
- ▶ Boise State CS Dept. Graduate Recruiting Committee (2017)
- ▶ Texas State CS Dept. Undergraduate Committee (2014–2016)
- ▶ Texas State CS Dept. Written Comp Exam Grading (2014–2016)
- ▶ UMN CS Graduate Student Association secretary (2009–2010)

Community and Civic Service

- ▶ January 2023 — joined amicus brief before SCOTUS on *Gonzalez v. Google*.
- ▶ July 2020 — taught continuing education session for Idaho Council for Libraries.

- ▶ October 2019 — presented at Idaho Library Association Annual Conference.
- ▶ February 2019 — addressed Idaho State House Judiciary Committee on H.B. 118, regulating pretrial risk assessment algorithms; through subsequent engagement, I contributed language that is in the final enacted legislation.
- ▶ December 2017 — Boise Public Library panel on preparing for a career in computer science.
- ▶ Judge, 2015 — Travis Elementary School Science Fair.

↻ MEDIA MENTIONS ↻

- ▶ “The Deadline Dilemma”. (Carolyn Kuimelis, *Teaching* newsletter from *Chronicle of Higher Education*, December 1, 2022. <https://www.chronicle.com/newsletter/teaching/2022-12-01>).
- ▶ “Out of the Blue”. (Ravi Shankar, *The New Indian Express*, May 1, 2022. <https://www.newindianexpress.com/opinions/columns/ravi-shankar/2022/may/01/outof-theblue-2447591.html>). Quotes from Washington Post article below.
- ▶ “Elon Musk wants Twitter’s algorithm to be public. It’s not that simple.” (Reed Albergotti, *The Washington Post*, April 16, 2022. <https://www.washingtonpost.com/technology/2022/04/16/elon-musk-twitter-algorithm/>).
- ▶ Quoted at length about how artificial intelligence learns from social signals in “Can AI be horny?” (Chris Stokel-Walker, *Input*, April 28, 2021; Bustle Digital Group. <https://www.inputmag.com/culture/artificial-intelligence-ai-archillect-twitter-horny-sex>).
- ▶ Quoted in several articles about FAcT suspending Google’s sponsorship for the 2021 conference, in my role as FAcT Sponsor Co-chair and a member of the Executive Committee. These articles include:
 - “AI ethics research conference suspends Google sponsorship.” (Khari Johnson, *VentureBeat*, March 2, 2021. <https://venturebeat.com/2021/03/02/ai-ethics-research-conference-suspends-google-sponsorship/>)
 - “Conference suspends Google sponsorship after ethics experts’ exit.” (D. Matthews, *Times Higher Education*, March 8, 2021. <https://www.timeshighereducation.com/news/conference-suspends-google-sponsorship-after-ethics-experts-exit>)
 - “Tech transparency conference suspends Google sponsorship over transparency concerns.” (Colleen Flaherty, *Inside Higher Ed*, March 9, 2021. <https://www.insidehighered.com/news/2021/03/09/tech-transparency-conference-suspends-google-sponsorship-over-transparency-concerns>)
 - “Google offered a professor \$60,000, but he turned it down. Here’s why.” (Rachel Metz, *CNN Business*, March 24, 2021. <https://www.cnn.com/2021/03/24/tech/google-ai-ethics-reputation/index.html>). I am not the professor who declined funding, but am quoted for context.
 - “How one employee’s exit shook Google and the AI industry.” (Rachel Metz, *CNN Business*, March 11, 2021. <https://www.cnn.com/2021/03/11/tech/google-ai-ethics-future/index.html>).
- ▶ Quoted about voter file data leaks in “D.C. makes it shockingly easy to snoop on your fellow voters.” (Brian Fung, *The Switch* [a blog by *The Washington Post*], June 14, 2016. <https://www.washingtonpost.com/news/the-switch/wp/2016/06/14/d-c-s-board-of-elections-makes-it-shockingly-easy-to-snoop-on-your-fellow-voters/>)
- ▶ Quoted about recommender systems principles in “TV seems to know what you want to see; algorithms at work.” (Scott Collins, *Los Angeles Times*, November 21, 2014. <https://www.latimes.com/entertainment/tv/la-et-st-tv-section-algorithm-20141123-story.html>)