

Michael D. Ekstrand, Ph.D

CURRICULUM VITAE

Dept. of Information Science
Drexel University
3675 Market St.
Philadelphia, PA 19104

mdekstrand@drexel.edu
<https://md.ekstrandom.net>

✧ 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*, Dept. of Computer Science, **University of Minnesota**
Summer 2010 *Research Intern*, **Autodesk Research** (Toronto)
2007–2008, 2011 *Teaching Assistant*, Dept. of Computer Science, **University of Minnesota**
2005–2007 *Undergrad RA*, Scalable Computing Laboratory, **Iowa State University**

✧ STUDENTS ✧

PH.D. GRADUATES

- Ngozi Ihemelandu (Ph.D. 2024)
- Amifa Raj (Ph.D. 2023; Applied Scientist at Microsoft)

M.S. GRADUATES

- 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; Drexel PI, my share \$150K; PI Joseph A. Konstan, UMN).
- 2018–2024: NSF 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 (total 4698, *h*-index 29).

JOURNAL ARTICLES // 9

Michael D. Ekstrand, Ben Carterette, and Fernando Diaz. **2024**. “**Distributionally-Informed Recommender System Evaluation**”. *Transactions on Recommender Systems* **2**(1) (March 7th, 2024), 6:1–27. DOI 10.1145/3613455. arXiv:2309.05892 [cs.IR]. Cited 7 times.

Jonathan Stray, Alon Halevy, Parisa Assar, Dylan Hadfield-Menell, Chloe Bakalar, 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. **2023**. “**Building**

[◇] 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.

[Human Values into Recommender Systems: An Interdisciplinary Synthesis](#)". *Transactions on Recommender Systems* (November 13th, 2023). DOI 10.1145/3632297. arXiv:2207.10192 [cs.IR]. Cited 35 times.

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 11th, 2022), 1–177. DOI 10.1561/15000000079. arXiv:2105.05779 [cs.IR]. Impact factor: 8. Cited 126 times.

Michael D. Ekstrand and Daniel Kluver. **2021**. "[Exploring Author Gender in Book Rating and Recommendation](#)". *User Modeling and User-Adapted Interaction* **31**(3) (February 4th, 2021), 377–420. DOI 10.1007/s11257-020-09284-2. arXiv:1808.07586v2. Impact factor: 4.412. Cited 167 times.

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 15th, 2020), 725–744. DOI 10.1108/AJIM-11-2019-0309. Impact factor: 1.903. Cited 14 times.

Michael D. Ekstrand and Michael Ludwig. **2016**. "[Dependency Injection with Static Analysis and Context-Aware Policy](#)". *Journal of Object Technology* **15**(1) (February 1st, 2016), 1:1–31. DOI 10.5381/jot.2016.15.1.a1. Cited 14 times.

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 1st, 2015). DOI 10.1145/2728171. Impact factor: 1.293. Cited 116 times (shared with L@S14[◇]).

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 1st, 2011), 911–920. Acceptance rate: 18%. Cited 21 times.

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 1st, 2011), 81–173. DOI 10.1561/11000000009. Cited 1623 times.

PEER-REVIEWED CONFERENCE PAPERS // 30

[Ngozi Ihemelandu](#) and **Michael D. Ekstrand**. **2024**. "[Multiple Testing for IR and Recommendation System Experiments](#)". Short paper in *Proceedings of the 46th European Conference on Information Retrieval (ECIR '24)*. *Lecture Notes in Computer Science* **14610**:449–457. DOI 10.1007/978-3-031-56063-7_37. Acceptance rate: 24.3%.

Michael D. Ekstrand, Lex Beattie, Maria Soledad Pera, and Henriette Cramer. **2024**. "[Not Just Algorithms: Strategically Addressing Consumer Impacts in Information Retrieval](#)". In *Proceedings of the 46th European Conference on Information Retrieval (ECIR '24, IR for Good track)*. *Lecture Notes in Computer Science* **14611**:314–335. DOI 10.1007/978-3-031-56066-8_25. Acceptance rate: 35.9%.

[Amifa Raj](#) and **Michael D. Ekstrand**. **2024**. "[Towards Optimizing Ranking in Grid-Layout for Provider-side Fairness](#)". In *Proceedings of the 46th European Conference on Information Retrieval (ECIR '24, IR for Good track)*. *Lecture Notes in Computer Science* **14612**:90–105. DOI 10.1007/978-3-031-56069-9_7. Acceptance rate: 35.9%.

[Ngozi Ihemelandu](#)⁺ and **Michael D. Ekstrand**. **2023**. "[Candidate Set Sampling for Evaluating Top-N Recommendation](#)". In *Proceedings of the 22nd IEEE/WIC International Conference on Web*

Intelligence and Intelligent Agent Technology (WI-IAT '23). pp. 88-94. DOI 10.1109/WI-IAT59888.2023.00018. arXiv:2309.11723 [cs.IR]. Acceptance rate: 28%.

[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. Acceptance rate: 25.12%. Cited 1 time.

[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. Acceptance rate: 25.12%. Cited 1 time.

[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 10 times.

[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 35 times.

[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 [cs.SI]. Acceptance rate: 23%. Cited 18 times.

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 36 times.

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 [cs.IR]. No acceptance rate reported. Cited 73 times.

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 [cs.IR]. Acceptance rate: 20%. Nominated for Best Long Paper. Cited 156 times.

[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, pp. 5. DOI 10.1145/3343413.3378004. arXiv:2001.09455 [cs.IR]. Acceptance rate: 47%. Cited 11 times.

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 [cs.IR]. Acceptance rate: 17.5%. Citations reported under UМУAI21⁰.

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 87 times.

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 247 times.

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 15 times.

[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 22 times.

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 123 times.

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 130 times.

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 268 times.

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 TOCHI15⁰.

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 58 times.

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 85 times.

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 43 times.

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.

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 238 times.

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.

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 123 times.

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, pp. 10. DOI 10.1145/1641309.1641317. Acceptance rate: 36%. Selected as Best Paper. Cited 34 times.

BOOK CHAPTERS // 2

Michael D. Ekstrand, Anubrata Das, Robin Burke, and Fernando Diaz. **2022**. “[Fairness in Recommender Systems](#)”. In *Recommender Systems Handbook* (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 27 times.

Daniel Kluver, **Michael D. Ekstrand**, and Joseph A. Konstan. **2018**. “[Rating-Based Collaborative Filtering: Algorithms and Evaluation](#)”. In *Social Information Access*. Peter Brusilovsky and Daqing He, eds. Springer-Verlag, *Lecture Notes in Computer Science* vol. 10100, pp. 344–390. DOI 10.1007/978-3-319-90092-6_10. ISBN 978-3-319-90091-9. Cited 139 times.

WORKSHOPS AND POSTERS // 17

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

[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). arXiv:2309.10271 [cs.IR]. Cited 1 time.

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). arXiv:2209.02662 [cs.IR]. Cited 1 time.

[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 [cs.IR]. Cited 5 times.

[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 4 times.

[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). arXiv:2109.06424 [cs.IR]. Cited 7 times.

[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. arXiv:2105.09296. Cited 6 times.

[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). arXiv:2009.01311 [cs.IR]. Cited 33 times.

Alexandra Olteanu, Jean Garcia-Gathright, Maarten de Rijke, and **Michael D. Ekstrand**. **2019**. “[Workshop on Fairness, Accountability, Confidentiality, Transparency, and Safety in Information Retrieval \(FACTS-IR\)](#)”. In *Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval* (SIGIR ’19). ACM. DOI 10.1145/3331184.3331644.

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 6 times.

[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.

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 [cs.IR]. Cited 10 times.

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 2 times.

[Rezvan Joshaghani](#)[†], **Michael D. Ekstrand**, Bart Knijnenburg, and Hoda Mehrpouyan. **2018**. “Do Different Groups Have Comparable Privacy Tradeoffs?”. In *Moving Beyond a ‘One-Size Fits All’ Approach: Exploring Individual Differences in Privacy*, a workshop at CHI 2018. Cited 4 times.

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.

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.

[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 16 times.

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.

EDITORIALLY-REVIEWED PUBLICATIONS // 4

These articles have appeared in magazines and similar venues; they have typically undergone some form of editorial review, but usually not 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 11th, 2023), 70–73. DOI 10.1145/3573364. Cited 2 times.

Nasim Sonboli, Robin Burke, **Michael Ekstrand**, and Rishabh Mehrotra. **2022**. “The Multisided Complexity of Fairness in Recommender Systems”. *AI Magazine* **43**(2) (June 23rd, 2022), 164–176. DOI 10.1002/aaai.12054. Cited 22 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 12th, 2019), 20–43. DOI 10.1145/3458553.3458556. Cited 40 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 1st, 2018), 91–101. DOI 10.1145/3274784.3274789. Cited 16 times.

TUTORIALS // 2

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)*. pp. 2. DOI 10.1145/3298689.3346964. Cited 44 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)*. pp. 2. DOI 10.1145/3331184.3331380. Cited 47 times.

DEMOS // 3

Tobias Vente, **Michael Ekstrand**, and Joeran Beel. **2023**. “[Introducing LensKit-Auto, an Experimental Automated Recommender System \(AutoRecSys\) Toolkit](#)”. Demo recorded in *Proceedings of the 17th ACM Conference on Recommender Systems (RecSys '23)*. pp. 1212–1216. DOI 10.1145/3604915.3610656. Cited 1 time.

[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)*. pp. 2. DOI 10.1145/3298689.3347048. Cited 12 times.

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 44 times.

PREPRINTS AND REPORTS // 5

Unreviewed preprints, technical reports, and similar manuscripts.

Alexandra Olteanu, **Michael Ekstrand**, Carlos Castillo, and Jina Suh. **2023**. “[Responsible AI Research Needs Impact Statements Too](#)”. arXiv:2311.11776 [cs.AI].

[Amifa Raj](#) and **Michael D. Ekstrand**. **2023**. “[Unified Browsing Models for Linear and Grid Layouts](#)”. arXiv:2310.12524 [cs.IR]. Cited 1 time.

Michael D. Ekstrand. **2021**. “[Multiversal Simulacra: Understanding Hypotheticals and Possible Worlds Through Simulation](#)”. arXiv:2110.00811 [cs.IR]. Cited 1 time.

Michael D. Ekstrand and Joseph A. Konstan. **2019**. “[Recommender Systems Notation: Proposed Common Notation for Teaching and Research](#)”. *Computer Science Faculty Publications and Presentations* 177. Boise State University. DOI 10.18122/cs_facpubs/177/boisestate. arXiv: 1902.01348 [cs.IR]. Cited 6 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**. “[From Evaluating to Forecasting Performance: How to Turn Information Retrieval, Natural Language Processing and Recommender Systems into Predictive Sciences \(Dagstuhl Perspectives Workshop 17442\)](#)”. *Dagstuhl Manifestos* 7(1) (November 21st, 2018), 96–139. DOI 10.4230/DagMan.7.1.96. Cited 19 times.

WORKSHOP SUMMARIES AND REPORTS // 16

These are summaries for workshops and special issues I have co-organized, as well as outcome reports that aren't listed under another category.

Michael D. Ekstrand, Jean Garcia-Gathright, Nasim Sonboli, Amifa Raj, and Karlijn Dinnissen. **2023**. “[FAccTRec 2023: The 6th Workshop on Responsible Recommendation](#)”. In *Proceedings*

- of the 17th ACM Conference on Recommender Systems (RecSys '23). ACM. DOI 10.1145/3604915.3608761.
- Michael D. Ekstrand**, Graham McDonald, [Amifa Raj](#), and Isaac Johnson. 2023. “Overview of the TREC 2022 Fair Ranking Track”. In *The Thirty-First Text REtrieval Conference (TREC 2022) Proceedings* (TREC 2022). arXiv:2302.05558. Cited 29 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>.
- Michael D. Ekstrand**, Pierre-Nicolas Schwab, Toshihiro Kamishima, and Nasim Sonboli. 2021. “FAccTRec 2021: The 4th Workshop on Responsible Recommendation”. In *Proceedings of the 15th ACM Conference on Recommender Systems (RecSys '21)*. ACM. DOI 10.1145/3460231.3470932. Cited 1 time.
- Michael D. Ekstrand**, Allison Chaney, Pablo Castells, Robin Burke, David Rohde, and Manel Slokom. 2021. “SimuRec: Workshop on Synthetic Data and Simulation Methods for Recommender Systems Research”. In *Proceedings of the 15th ACM Conference on Recommender Systems (RecSys '21)*. ACM. DOI 10.1145/3460231.3470938. Cited 18 times.
- Robin Burke, **Michael D. Ekstrand**, Nava Tintarev, and Julita Vassileva. 2021. “Preface to the Special Issue on Fair, Accountable, and Transparent Recommender Systems”. *User Modeling and User-Adapted Interaction* 31(3) (July 24th, 2021), 371–375. DOI 10.1007/s11257-021-09297-5. Cited 7 times.
- Asia J. Biega, Fernando Diaz, **Michael D. Ekstrand**, Sergey Feldman, and Sebastian Kohlmeier. 2021. “Overview of the TREC 2020 Fair Ranking Track”. In *The Twenty-Ninth Text REtrieval Conference (TREC 2020) Proceedings* (TREC 2020). arXiv:2108.05135. Cited 11 times.
- Michael D. Ekstrand**, Pierre-Nicolas Schwab, Jean Garcia-Gathright, Toshihiro Kamishima, and Nasim Sonboli. 2020. “3rd FATREC Workshop: Responsible Recommendation”. In *Proceedings of the 14th ACM Conference on Recommender Systems (RecSys '20)*. ACM. DOI 10.1145/3383313.3411538. Cited 5 times.
- Bamshad Mobasher, Stylani Kleanthous, **Michael D. Ekstrand**, Bettina Berendt, Janna Otterbacher, and Avital Schulner Tal. 2020. “UMAP 2020 Fairness in User Modeling, Adaptation and Personalization (FairUMAP 2020) Chairs' Welcome”. In *Adjunct Publication of the 28th ACM Conference on User Modeling, Adaptation and Personalization (UMAP '20)*. ACM. DOI 10.1145/3386392.3399565.
- Bamshad Mobasher, Stylani Kleanthous, **Michael D. Ekstrand**, Bettina Berendt, Janna Otterbacher, and Avital Schulner Tal. 2020. “FairUMAP 2020: The 3rd Workshop on Fairness in User Modeling, Adaptation and Personalization”. In *Proceedings of the 28th ACM Conference on User Modeling, Adaptation and Personalization (UMAP '20)*. ACM. DOI 10.1145/3340631.3398671. Cited 4 times.
- Asia J. Biega, Fernando Diaz, **Michael D. Ekstrand**, and Sebastian Kohlmeier. 2020. “Overview of the TREC 2019 Fair Ranking Track”. In *The Twenty-Eighth Text REtrieval Conference (TREC 2019) Proceedings* (TREC 2019). arXiv:2003.11650. Cited 41 times.
- Bettina Berendt, Veronika Bogina, Robin Burke, **Michael D. Ekstrand**, Alan Hartman, Stylani Kleanthous, Tsvi Kuflik, Bamshad Mobasher, and Janna Otterbacher. 2019. “FairUMAP 2019 Chairs' Welcome Overview”. In *Adjunct Publication of the 27th Conference on User Modeling, Adaptation and Personalization (UMAP '19)*. ACM. DOI 10.1145/3314183.3323842.

Toshihiro Kamishima, Pierre-Nicolas Schwab, and **Michael D. Ekstrand**. 2018. “2nd FATREC Workshop: Responsible Recommendation”. In *Proceedings of the 12th ACM Conference on Recommender Systems (RecSys '18)*. ACM. DOI 10.1145/3240323.3240335. Cited 11 times.

Bamshad Mobasher, Robin Burke, **Michael D. Ekstrand**, and Bettina Berendt. 2018. “UMAP 2018 Fairness in User Modeling, Adaptation and Personalization (FairUMAP 2018) Chairs' Welcome & Organization”. In *Adjunct Publication of the 26th Conference on User Modeling, Adaptation, and Personalization (UMAP '18)*. ACM. DOI 10.1145/3213586.3226200.

Michael D. Ekstrand and Amit Sharma. 2017. “The FATREC Workshop on Responsible Recommendation”. In *Proceedings of the 11th ACM Conference on Recommender Systems (RecSys '17)*. ACM. DOI 10.1145/3109859.3109960. Cited 5 times.

Martijn Willemsen, Dirk Bollen, and **Michael Ekstrand**. 2011. “UCERSTI 2: Second Workshop on User-Centric Evaluation of Recommender Systems and Their Interfaces”. In *Proceedings of the 5th ACM Conference on Recommender Systems (RecSys '11)*. ACM, pp. 395–396. DOI 10.1145/2043932.2044020. Cited 8 times.

OTHER PUBLICATIONS // 5

Publications and presentations that don't fit elsewhere; these have not been peer-reviewed or have been lightly reviewed on the basis of an abstract.

Michael D. Ekstrand, Ben Carterette, and Fernando Diaz. 2021. “Evaluating Recommenders with Distributions”. In *Proceedings of the RecSys 2021 Workshop on Perspectives on the Evaluation of Recommender Systems (RecSys '21)*. Cited 2 times.

Katherine Landau Wright, [David McNeill](#), **Michael D. Ekstrand**, and Maria Soledad Pera. 2019. “Supplementing Classroom Texts with Online Resources”. At *2019 American Educational Research Association Conference*. Cited 17 times.

Katherine Landau Wright, **Michael D. Ekstrand**, and Maria Soledad Pera. 2018. “Supplementing Classroom Texts with Online Resources”. At *2018 Annual Meeting of the Northwest Rocky Mountain Educational Research Association*.

Michael D. Ekstrand. 2017. “Yak Shaving with Michael Ekstrand”. *CSR Tales* no. 4 (December 29th, 2017). PURL <https://purl.org/mde/alpaca>.

Michael D. Ekstrand. 2014. “Towards Recommender Engineering: Tools and Experiments in Recommender Differences”. Ph.D thesis, University of Minnesota. HDL 11299/165307. Cited 8 times.

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 🔗

- Mar. 2024: Keynote at IR4U2 workshop at ECIR 2024
- Feb. 2024: Seminar at University of Colorado at Boulder
- Oct. 2023: Virtual seminar at the University of Glasgow
- 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 ↻

DREXEL UNIVERSITY

Term	Course	Title	Credits	# In-Person	# Online
W24	DSCI 641	<i>Rec. Sys. for Data Science</i>	3		
F23	INFO 659	<i>Intro to Data Analytics</i>	3	9	16

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

Term	Course	Title	Credits	Students
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

Term	Course	Title	Students
S16	CS 3320	<i>Internet Software Development</i>	48
S16	CS 5369Q/4379Q	<i>Recommender Systems</i>	26
F15	CS 4332	<i>Intro to Database Systems</i>	39
S15	CS 5369Q/4379Q	<i>Recommender Systems</i>	28
S15	CS 4350	<i>Unix Systems Programming</i>	32
F14	CS 4332	<i>Intro to Database Systems</i>	50

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

Term	Course	Title	Role	Students
F13	CSCI 5980-1	<i>Intro to Recommender Systems</i>	Inst	~35
S12	CSCI 1902	<i>Structure of Comput. Prog. II</i>	Inst	~25
S11	CSCI 5125	<i>Collaborative and Social Computing</i>	TA	~30
Su08	CSCI 1902	<i>Structure of Comput. Prog. II</i>	TA	~30
S08	CSCI 1902	<i>Structure of Comput. Prog. II</i>	TA	~120
F07	CSCI 1902	<i>Structure of Comput. Prog. II</i>	TA	~120

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

- Associate editor, *ACM Transactions on Recommender Systems* (2024–)
- Editorial board, *Foundations and Trends in Information Retrieval* (2023–)
- Co-chair, FAcCT Network, 2019–
- Steering committee, *ACM Conference on Recommender Systems (RecSys)*, 2017–
- Senior Member of the Association for Computing Machinery (since 2019)

- Distinguished Reviewer, *ACM Transactions on Interactive Intelligent Systems (TiiS)* (2017–present)

PROGRAM COMMITTEE AND EDITORIAL SERVICE

2024

- Program committee, *ACM CIKM 2024*
- Senior program committee, *ACM RecSys 2024*
- Area chair, *ACM FAccT 2024*
- Area chair, *ACM SIGIR 2024*
- Reviewer, *ACM Transactions on Interactive Intelligent Systems*
- Reviewer, *ACM Transactions on Information Systems*
- Reviewer, *ACM Transactions on Social Computing*
- Reviewer, *ACM Computing Surveys*

2023

- Program committee, *ECIR 2024* (technical program, short papers, IR for Good, tutorials)
- Senior program committee, *ACM RecSys 2023*
- Program committee, *ACM RecSys 2023* (Reproducibility)
- Senior program committee, *SIGIR Asia-Pacific 2023*
- Best paper committee, *ACM SIGIR 2023*
- Best paper committee, *TheWebConf 2023*
- Program committee, *ACM SIGIR 2023*
- Track chair, *UMAP 2023* (Responsibility, Compliance, and Ethics)
- Area chair, *ACM FAccT 2023*
- Reviewer, *ACM Transactions on Recommender Systems*
- Reviewer, *ACM Transactions on Information Systems*
- Reviewer, *ACM Transactions on Interactive Intelligent Systems*
- Reviewer, *ACM Computing Surveys*
- Reviewer, *ACM Transactions on Social Computing*
- Reviewer, *ACM Journal of Responsible Computing*
- Reviewer, *Information Retrieval Journal*
- Workshop reviewing: *RecSys4HR at RecSys* and *PERSPECTIVES at RecSys*

2022

- **Program co-chair**, *16th ACM Conference on Recommender Systems (RecSys 2022)*
- Reviewer, *ACM Transactions on Recommender Systems*
- Reviewer, *ACM Computing Surveys*
- Reviewer, *ACM Transactions on Intelligent Systems and Technology*
- Reviewer, *Information Retrieval Journal*
- Reviewer, *Journal of Librarianship & Information Science*
- Reviewer, *ACM Transactions on Interactive Intelligent Systems*
- Reviewer, *User Modeling and User-Adapted Interaction*

2021

- Guest editor, 2021 special issue of *User Modeling and User-Adapted Interaction (UMUAI)* on fairness in user modeling.
- Track Chair, *UMAP 2021*
- Program committee, *ACM SIGIR 2021* (technical program, Perspectives, short papers, resource track)
- Senior program committee, *ACM RecSys 2021*

- Program committee, *ACM RecSys 2021* (Reproducibility)
- Program committee, *ACM CIKM 2021* (resource track)
- Program committee, *ACM WSDM 2021*
- Ethics reviewer, *NeurIPS 2021*
- Reviewer, *User Modeling and User-Adapted Interaction*
- Reviewer, *ACM Computing Surveys*
- Reviewer, *ACM Transactions on Interactive Intelligent Systems*
- Reviewer, *ACM Transactions on Information Systems*
- Reviewer, *ACM/IMS Transactions on Data Science*
- Reviewer, *ACM Transactions on Computer-Human Interaction*
- Workshop reviewing: *BIAS 2021 at ECML-PKDD*, *BIAS 2021 at ECIR*, *ExUM at UMAP*, *RecSysHR at RecSys*, *IntRS at RecSys*, and *Perspectives at RecSys*

2020

- Program committee, *ACM SIGIR 2020*
- Program committee, *UMAP 2020*
- Senior program committee, *ACM RecSys 2020*
- Program committee, *ACM CIKM 2020* (resource track)
- Program committee, *ACM RecSys 2020* (LBR)
- Program committee, *ACM WSDM 2020*
- Program committee, *ACM FAccT 2021*
- Senior program committee, *TheWebConf 2021* (User Modeling, Behavior, & Personalization)
- Reviewer, *ACM Transactions on Computer-Human Interaction*
- Reviewer, *ACM Transactions on Interactive Intelligent Systems*
- Reviewer, *ACM Transactions on Information Systems*
- Reviewer, *User Modeling and User-Adapted Interaction*
- Additional reviews for *UIST*, *CSCW*, and *CHI*
- Workshop reviewing: *ExSS-A TEC at IUI*, *Bias at ECIR*, *ExUM at UMAP*, *BIAS at ECMLPKDD*, *ImpactRS*, and *IntRS*

2019

- Senior program committee, *ACM RecSys 2019*
- Program committee, *ACM RecSys 2019* (LBR)
- Program committee, *CHI 2019* (Posters)
- Program committee, *UMAP 2019*
- Program committee, *ACM FAccT 2020*
- Program committee, *TheWebConf 2020* (User Modeling, Behavior, & Personalization)
- Reviewer, *User Modeling and User-Adapted Interaction*
- Reviewer, *ACM Transactions on Interactive Intelligent Systems*
- Reviewer, *Communications of the ACM*
- Additional reviews for *FAccT* (tutorials), *CSCW*, and *CHI*
- Workshop reviewing: *HUMANIZE*, *Handling Web Bias @ WWW 2019*, *A TEC @ IUI 2019*, *IntRS @ RecSys 2019*, and *ImpactRS @ RecSys 2019*

2018

- Program committee, *ACM FAccT 2019*
- Program committee, *TheWebConf 2019* (User Modeling, Behavior, & Personalization)
- Program committee, *UMAP 2018*
- Reviewer, *ACM Transactions on Interactive Intelligent Systems*
- Reviewer, *ACM Transactions on the Web*

- Reviewer, *IEEE Transactions on Knowledge and Data Engineering*
- Reviewer, *Communications of the ACM*
- Workshop reviewing: *HealthRecSys* and *KidRec*

2017

- Area chair, *ACM FAccT 2018*
- Program committee, *FLAIRS 2017* (Special Track on Recommender Systems)
- Program committee, *TheWebConf 2018* (User Modeling, Behavior, & Personalization)
- Program committee, *ACM RecSys 2017* (technical program, Posters)
- Reviewer, *Interacting with Computers*
- Additional reviews for *UIST*
- Workshop reviewing: *IntRS at RecSys*, *KidRec at RecSys*, *FATML at KDD*, *EnCHIres*, and *SOAP at UMAP*

2016

- Program committee, *FLAIRS 2016* (Special Track on Recommender Systems)
- Program committee, *TheWebConf 2016* (User Modeling, Behavior, & Personalization)
- Program committee, *ACM SAC 2016* (Recommender Systems)
- Program committee, *ACM RecSys 2016* (Posters, technical program)
- Reviewer, *Artificial Intelligence Review*
- Reviewer, *ACM Transactions on Interactive Intelligent Systems*
- Reviewer, *International Journal of Artificial Intelligence Tools*
- Reviewer, *PLOS ONE*
- Reviewer, *JMLR Open Source*
- Reviewer, *IBM Journal of Research and Development*
- Additional reviews for *IUI*, *CSCW*, *CHI*, *CHI* (Late-Breaking Work), *ICSOC*, and *UIST*
- Workshop reviewing: *LSRS at RecSys*

2015

- Program committee, *ACM RecSys 2015*
- Program committee, *FLAIRS 2016* (Special Track on Recommender Systems)
- Program committee, *TheWebConf 2016* (Behavior Analysis and Recommendation)
- Reviewer, *ACM Transactions on Intelligent Systems and Technology*
- Reviewer, *User Modeling and User-Adapted Interaction*
- Reviewer, *PeerJ Computer Science*
- Reviewer, *ACM Computing Surveys*
- Reviewer, *Information Retrieval Journal*
- Additional reviews for *CHI*
- Workshop reviewing: *Social Personalization and Search at SIGIR*

2014

- Program committee, *ACM RecSys 2014*
- Program committee, *FLAIRS 2015* (Special Track on Recommender Systems)
- Reviewer, *ACM Transactions on Intelligent Systems and Technology*
- Reviewer, *IEEE Transactions on Dependable and Secure Computing*
- Additional reviews for *CHI* and *CSCW*

2013

- Reviewer, *IEEE Transactions on Knowledge and Data Engineering*
- Reviewer, *ACM Transactions on the Web*

2012

- Program committee, *ACM SAC 2013* (Recommender Systems)
- Reviewer, *Advances in AI*
- Reviewer, *Information Retrieval*
- Additional reviews for *UIST* and *CHI* (Work in Progress)

OTHER PROFESSIONAL SERVICE

- Executive committee, *ACM Conference on Fairness, Accountability, and Transparency* (FAccT), 2020–2023
- Steering committee, *ACM Conference on Fairness, Accountability, and Transparency* (FAccT), 2017–2023 (inaugural member)
- 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* (2017)
- 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

- Drexel IS 2023-2024 Faculty Search Committee
- Drexel IS Ph.D. committee (2023-2024)
- Boise State 2020–2021 CS Faculty Search Committee
- Boise State COEN SAGE Scholars Program Mentor (2019–2021)
- Boise State College of Engineering Curriculum Committee (2019–2022)
- Boise State Ph.D. in Computing Steering Committee (2017–2022)
- Boise State CS Dept. Curriculum Committee (2017–2022)
- 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.
- ▶ 2015 — Judge for Travis Elementary School Science Fair.

🔗 MEDIA MENTIONS 🔗

- ▶ “Getting to know you: This is what chatGPT says Philly is famous for”. (Vicky Diaz-Camacho, *Billy Penn* at WHYY, March 11, 2024. <https://billypenn.com/2024/03/11/chatgpt-artificial-intelligence-philadelphia-known-for-cheesesteaks/>).
- ▶ “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 FAccT suspending Google’s sponsorship for the 2021 conference, in my role as FAccT 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>)