

Michael D. Ekstrand, Ph.D

CURRICULUM VITAE

Dept. of Information Science
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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](#)
[PI/Lead](#), Impact, Novation, Effectiveness, and Responsibility of Technology for
Information Access Lab (INERTIAL)
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](#)

✧ STUDENTS ✧

CURRENT PH.D. STUDENTS

- ▶ **Samira Vaez Barenji** (expected 2029)
- ▶ **Sushobhan Parajuli** (expected 2029)

PH.D. GRADUATES

- ▶ **Ngozi Ihemelandu** (Ph.D. 2024, Boise State University; dissertation: *Best Practices for Offline Evaluation for Top-N Recommendation: Candidate Set Sampling and Statistical Inference*)
- ▶ **Amifa Raj** (Ph.D. 2023, Boise State University; dissertation: *Fair Layouts in Information Access Systems: Provider-Side Group Fairness in Ranking Beyond Ranked Lists*)

M.S. GRADUATES

- ▶ **Srabanti Guha** (M.S. 2023, Boise State University; project: *Explaining Misallocated Exposure across Multiple Rankings*)
- ▶ **Carlos Segura Cerna** (M.S. 2020, Boise State University; project: *Recommendation Server for LensKit*)
- ▶ **Mucun Tian** (M.S. 2019, Boise State University; thesis: *Estimating Error and Bias of Offline Recommender System Evaluation Results*)
- ▶ **Vaibhav Mahant** (M.S. 2016, Texas State University; thesis: *Improving Top-N Evaluation of Recommender Systems*)
- ▶ **Sushma Channamsetty** (M.S. 2016, Texas State University; thesis: *Recommender Response to User Profile Diversity and Popularity Bias*)

- **Mohammed Imran R Kazi** (M.S. 2016, Texas State University; thesis: *Exploring Potentially Discriminatory Biases in Book Recommendation*)
- **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*)

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; Lead PI Joseph A. Konstan, UMN).
- 2018–2025: NSF 17-51278: *CAREER: User-Based Simulation Methods for Quantifying Sources of Error and Bias in Recommender Systems* (\$514K incl. REU supplements; PI).

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 5429, *h*-index 31).

JOURNAL ARTICLES // 9

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 Vasani. **2024**. [“Building Human Values into Recommender Systems: An Interdisciplinary Synthesis”](#). *Transactions on Recommender Systems* 2(3) (June 5th, 2024; online November 12th, 2023), 20:1–57. DOI 10.1145/3632297. arXiv:2207.10192 [cs.IR]. Cited 67 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.

- Michael D. Ekstrand**, Ben Carterette, and Fernando Diaz. **2024**. “Distributionally-Informed Recommender System Evaluation”. *Transactions on Recommender Systems* 2(1) (March 7th, 2024; online August 4th, 2023), 6:1–27. DOI 10.1145/3613455. arXiv:2309.05892 [cs.IR]. NSF PAR 10461937. Cited 16 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]. NSF PAR 10347630. Impact factor: 8. Cited 189 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. NSF PAR 10218853. Impact factor: 4.412. Cited 204 times (shared with RecSys18⁰).
- Michael D. Ekstrand**, Katherine Landau Wright, and Maria Soledad Pera. **2020**. “Enhancing Classroom Instruction with Online News”. *Aslib Journal of Information Management* 72(5) (November 17th, 2020; online June 14th, 2020), 725–744. DOI 10.1108/AJIM-11-2019-0309. Impact factor: 1.903. Cited 19 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 16 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 118 times (shared with L@S14⁰).
- 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 22 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 1738 times.
- PEER-REVIEWED CONFERENCE PAPERS // 31**
- Andrés Ferraro, **Michael D. Ekstrand**, and Christine Bauer. **2024**. “It’s Not You, It’s Me: The Impact of Choice Models and Ranking Strategies on Gender Imbalance in Music Recommendation”. Short paper in *Proceedings of the 18th ACM Conference on Recommender Systems* (RecSys ’24). ACM. DOI 10.1145/3640457.3688163. arXiv:2409.03781 [cs.IR].
- 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. NSF PAR 10497108. Acceptance rate: 24.3%. Cited 2 times.
- 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. NSF PAR 10497110. Acceptance rate: 35.9%. Cited 8 times.

- [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. NSF PAR 10497109. Acceptance rate: 35.9%. Cited 1 time.
- [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]. NSF PAR 10487293. Acceptance rate: 28%. Cited 3 times.
- [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. NSF PAR 10423689. Acceptance rate: 25.1%. Cited 3 times.
- [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. NSF PAR 10423691. Acceptance rate: 25.1%. Cited 2 times.
- [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. NSF PAR 10423693. Acceptance rate: 39.4%. Cited 21 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. NSF PAR 10329880. Acceptance rate: 20%. Cited 61 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]. NSF PAR 10223377. Acceptance rate: 23%. Cited 24 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. NSF PAR 10237411. Acceptance rate: 21%. Cited 48 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]. NSF PAR 10199450. No acceptance rate reported. Cited 101 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]. NSF PAR 10199451. Acceptance rate: 20%. Nominated for Best Long Paper. Cited 190 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]. NSF PAR 10146883. Acceptance rate: 47%. Cited 12 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 104 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 296 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 16 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 21 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 143 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 139 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 285 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 TOCHI15[◊].
- 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 60 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 88 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 48 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 19 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 255 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 56 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 124 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 37 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 37 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 150 times.

INVITED TALKS // 41

- Oct 2024 **Keynote** at *ROEGEN* (workshop at RecSys 2024, Bari, Italy)
“Responsible Recommendation in the Age of Generative AI”
- Jul 2024 **Panelist** at *Workshop on Large Language Models (LLMs) for Evaluation in Information Retrieval* (at SIGIR 2024)
- May 2024 **Overview talk** at *Dagstuhl Seminar 24211*
- May 2024 **Seminar** at *Delft University of Technology* (Delft, NL)
“Search, Recommendation, and Sea Monsters”
- Mar 2024 **Keynote** at *IR4U2* (workshop at ECIR 2024, Glasgow, Scotland)
“To Serve Whom and How?”
- Feb 2024 **Seminar** at *University of Colorado at Boulder*
“Search, Recommendation, and Sea Monsters”
- Oct 2023 **Seminar** at *University of Glasgow* (virtual)
“Search, Recommendation, and Sea Monsters”
- May 2023 **Invited talk** at *Beyond Nudging, Towards Diversity: Understanding Transparent Algorithmic Recommendation Practices for Media and Communications* (post-conference panel at ICA 2023, virtual)
“Beyond Diversity and Transparency: Normative Recommendation Goals in Human Context”
- Mar 2023 **Seminar** at *University of Texas at Austin HCI group*
“Search, Recommendation, and Sea Monsters”
- Feb 2023 **Seminar** at *Drexel University*
“Maps and Lenses on Fairness in Information Access Systems”
- Jan 2023 **Seminar** at *University of Washington RAISE group*
“Equity and Discrimination in Information Access”
- Nov 2022 **Keynote** at *IBIS2022 (Information-Based Inductive Systems and Machine Learning)* (Japanese machine learning conference, Tsukuba, JP)
“The Complexity of Fairness in Information Access”
- Nov 2022 **Seminar** at *Waseda University* (Tokyo, JP)
“Equity and Discrimination in Information Access”
- Oct 2022 **Keynote** at *EvalRS workshop at CIKM 2022*
“Do You Want To Hunt A Kraken? Mapping and Expanding Recommendation Fairness”
- Aug 2022 **Guest lecture** at *University of Maine IR course* (virtual)
“Fair IR and Test Collections”
- Mar 2022 **Seminar** at *University of Michigan School of Information* (virtual)
“You Might Also Think This Is Unfair”
- Nov 2021 **Seminar** at *Vector Institute* (virtual)
“Information Systems for Human Flourishing”
- Oct 2020 **Guest lecture** at *Carnegie Mellon University Human-AI Interaction course*
“Recommender Systems and Fairness”
- Apr 2020 **Guest lecture** at *Emory University recommender systems course*
“Recommender Systems and Fairness”
- Mar 2020 **Seminar** at *Boise State University Ph.D in Computing Colloquium*
“User, Agent, Subject, Spy”
- Nov 2019 **Seminar** at *University of Texas at Austin*
“Use,r Agent, Subject, Spy”

- Oct 2019 [Session](#) at [Idaho Library Association 2019 Conference](#)
“Online Recommendation: What? Where? Why? How?”
- Aug 2019 [Lecture](#) at [IVADO Summer School](#) (Montréal, QC)
“Fairness and Discrimination in Recommendation and Retrieval”
- Aug 2019 [Seminar](#) at [Microsoft Research Montréal](#)
“User, Agent, Subject, Spy”
- Jul 2019 [Seminar](#) at [Criteo AI Labs](#) (Paris, France)
“User, Agent, Subject, Spy ”
- May 2019 [Invited talk](#) at [CRA CCC Visioning Workshop on Economics and Fairness](#)
“Recommendations, Decisions, Feedback Loops, and Maybe Saving the Planet”
- Dec 2018 [Seminar](#) at [Clemson University](#)
“User, Agent, Subject, Spy”
- Nov 2018 [Seminar](#) at [Carnegie Mellon University Human-Computer Interaction Institute](#)
“User, Agent, Subject, Spy”
- Nov 2018 [Guest lecture](#) at [Carnegie Mellon University Human-AI Interaction course](#)
“Recommender Systems”
- Nov 2017 [Seminar](#) at [Whitman College](#) (Walla Walla, WA)
“Making Information Systems Good for People”
- Oct 2017 [Overview talk](#) at [Dagstuhl Seminar 17442](#)
- Jun 2017 [Seminar](#) at [RecSysNL at TU Delft](#) (Delft, NL)
“Recommending for People”
- Jun 2017 [Seminar](#) at [Jheronimus Academy of Data Science](#) (’s-Hertogenbosch, NL)
“Recommending for People”
- Jun 2017 [Seminar](#) at [UCL Mons](#) (Mons, BE)
“Recommending for People”
- Jun 2017 [Keynote](#) at [Brussels Big Data and Ethics Meetup](#) (inaugural event of the DigitYser
Big Data community, Brussels, BE)
“Responsible Recommendation”
- Nov 2016 [Seminar](#) at [University at Albany](#)
“Recommending for People”
- Oct 2016 [Lecture](#) at [Clearwater Developer Conference](#) (Boise, ID)
“Introduction to Recommender Systems ”
- Sep 2015 [Invited talk](#) at [Large-Scale Recommender Systems](#) (workshop at RecSys ’15)
“Challenges in Scaling Recommender Systems Research”
- Sep 2015 [Invited talk](#) at [RecSys Doctoral Symposium](#)
“Levelling Up your Academic Career”
- Sep 2012 [Invited talk](#) at [RecSys Challenge](#) (workshop at RecSys ’12)
“Flexible Recommender Experiments with LensKit”
- Sep 2012 [Invited talk](#) at [RecSys Challenge](#) (workshop at RecSys ’12)
“The MovieLens Data Set”

🌀 TEACHING 🌀

DREXEL UNIVERSITY

- DSCI 641 (Recommender Systems for Data Science)
- INFO 659 (Intro to Data Analytics)

BOISE STATE UNIVERSITY

- CS 410/510 (Databases)
- CS 533 (Intro to Data Science)

- CS 538 (Recommender Systems)
- CS 697 (Special Topics: Equity and Discrimination in Computing Systems)

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

- [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](#), *Association for Computing Machinery* (since 2019)
- [Distinguished Reviewer](#), *ACM Transactions on Interactive Intelligent Systems* (TiiS) (2017–present)

PAST SERVICE HIGHLIGHTS

- [Executive committee](#), *ACM Conference on Fairness, Accountability, and Transparency* (FAccT), 2020–2023
- [Program co-chair](#), *16th ACM Conference on Recommender Systems* (RecSys 2022)
- [General co-chair](#), *12th ACM Conference on Recommender Systems* (RecSys 2018)

PROGRAM COMMITTEE AND EDITORIAL SERVICE

- *ECIR* main program (PC 2024–2025), short papers (PC 2024–2025), IR for Good (PC 2024), tutorials (PC 2024)
- *ACM CIKM* main program (PC 2024), resource track (PC 2020–2021)
- *ACM RecSys* main program (SPC 2019–2021, 2023–2024; PC 2014–2017), Reproducibility (PC 2021, 2023), LBR (PC 2019–2020), Posters (PC 2016–2017)

- ▶ *ACM FAccT* (AC 2023–2024; PC 2021)
- ▶ *ACM SIGIR* main program (AC 2024; PC 2020–2021, 2023), Perspectives (PC 2021), short papers (PC 2021), resource track (PC 2021)
- ▶ *Best paper committee, ACM SIGIR 2023*
- ▶ *SIGIR Asia-Pacific* (SPC 2023)
- ▶ *Best paper committee, TheWebConf 2023*
- ▶ *Track chair, UMAP 2023* (Responsibility, Compliance, and Ethics)
- ▶ *Guest editor*, 2021 special issue of *User Modeling and User-Adapted Interaction* (UMUAI) on fairness in user modeling.
- ▶ *TheWebConf* User Modeling, Behavior, & Personalization (SPC 2021; PC 2016, 2018–2020), Behavior Analysis and Recommendation (PC 2016)
- ▶ *Track Chair, UMAP 2021*
- ▶ *ACM WSDM* (PC 2020–2021)
- ▶ *Ethics reviewer, NeurIPS 2021*
- ▶ *UMAP* (PC 2018–2020)
- ▶ *CHI* Posters (PC 2019)
- ▶ *FLAIRS* Special Track on Recommender Systems (PC 2015–2017)
- ▶ *ACM SAC* Recommender Systems (PC 2013, 2016)
- ▶ *NeurIPS*
- ▶ Additional conference reviews for *CHI* (2012, 2015–2017, 2019–2020), *CSCW* (2014, 2017, 2019–2020), *FAT* (2017–2019), *ICSOC* (2016), *IUI* (2016), and *UIST* (2012, 2016–2017, 2020).
- ▶ Journal reviews for *Advances in AI*, *Artificial Intelligence Review*, *CACM*, *CSUR*, *IBM Journal of Research and Development*, *INRT*, *Information Retrieval Journal*, *Interacting with Computers*, *International Journal of Artificial Intelligence Tools*, *JMLR Open Source*, *JRC*, *Journal of Librarianship & Information Science*, *PLOS ONE*, *PeerJ Computer Science*, *TDS*, *TDSC*, *TIST*, *TKDE*, *TOCHI*, *TOIS*, *TORS*, *TSC*, *TWEB*, *Tiis*, and *UMUAI*.
- ▶ Reviewer for numerous workshops at *RecSys*, *UMAP*, and elsewhere.

OTHER PROFESSIONAL SERVICE

- ▶ *Track co-organizer, Product Search and Recommendation* track at TREC 2025
- ▶ *Doctoral symposium co-chair, ACM RecSys 2024*
- ▶ *Founder and co-organizer, FATREC Workshop on Responsible Recommendation* at RecSys 2017–2018, 2020–2021, 2023–2024
- ▶ *Co-organizer, AltRecSys Workshop on Alternative, Unexpected, and Critical Ideas in Recommendation* at RecSys 2024
- ▶ *Participant*, Dagstuhl Seminar 24211: Evaluation Perspectives of Recommender Systems: Driving Research and Education (2024)
- ▶ *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, TREC Track on Fairness in Information Retrieval* (2019–2022)
- ▶ *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, ACM RecSys 2022*
- ▶ *Co-organizer, FairUMAP workshop* at UMAP 2018–2020
- ▶ Organized and moderated panel at RecSys 2019 on responsible recommendation

- ▶ **PR & Publicity co-chair**, *2nd Conference on Fairness, Accountability, and Transparency* (ACM FAT* 2019)
- ▶ **Co-organizer**, *Workshop on Fairness, Accountability, Confidentiality, Transparency, and Safety in Information Retrieval* (FACTS-IR) at SIGIR 2019
- ▶ **Publications working group**, *FACCT steering committee* (2017)
- ▶ **Participant**, Dagstuhl Perspectives Workshop 17442: 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.