

Negar Arabzadeh

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ACADEMIC APPOINTMENTS

CURRENT	Postdoctoral Researcher Sky Lab , University of California, Berkeley, USA
2025	Supervisor: Prof. Matei Zaharia

EDUCATION

2025	PhD in Computer Science, GPA: 93/100 University of Waterloo, Canada Supervisor: Dr. Charles L. A. Clarke
2021	Thesis: Evaluation of Information Access Systems in the Generative Era
2019	Master of Applied Science in Electrical and Computer Engineering, GPA: 4.0/4.0 Toronto Metropolitan University, Canada Supervisor: Dr. Ebrahim Bagheri
2017	Thesis: “Neural Embedding-based Specificity Metrics for Query Performance Prediction”
2017	Bachelor of Science in Electrical Engineering (Control Systems)
2012	Amirkabir University of Technology (Tehran Polytechnic), Iran
2012	Diploma in Mathematics and Physics, Farzanegan1 HighSchool
2009	NODET (National Organization for Development of Exceptional Talents) , Iran

INTERNSHIPS AND RESEARCH EXPERIENCE

2023	Research Intern at Microsoft Research (MSR) Evaluation of LLM-based multi-agent systems Mentors: Julia Kiseleva , Ahmed H. Awadallah
2022	Student Researcher at Google Brain Offline evaluation of text-to-image generation models Mentor: Fernando Diaz
2022	Research Scientist at Spotify Research Offline evaluation of instant Search Mentors: Ben Carterette , Claudia Hauff
2021	Research Scientist Intern at Microsoft Research (MSR) Designing interactive user guidance on meeting exploration Mentors: Julia Kiseleva , Ahmed H. Awadallah , Milad Shokouhi

PUBLICATIONS

Books

[Understanding and Mitigating Gender Bias in Information Retrieval Systems](#)

Seyedsalehi, S., Bigdeli, A., **Arabzadeh, N.**, AlMousavi, B., Marshall, Z., Zihayat, M., and Bagheri, E. *Foundations and Trends® in Information Retrieval*, '25. Invited by Editors of FNTIR.

[Information Access in the Era of Generative AI.](#)

Contributed chapter: *Generative Information Retrieval Evaluation*

Marwah Alaofi, **Negar Arabzadeh**, Charles L. A. Clarke, and Mark Sanderson
Springer, '24. Edited by Ryen White and Chirag Shah.

Peer-Reviewed Publications

IF indicates the journal Impact Factor.

Series indicates the CORE '23 conference ranking (A*: flagship; A: excellent; B: good).

Journal Articles

- TIST '26 IF: 10.7 [Learning Context-aware Term Importance for Query Performance Prediction](#). Saleminezhad, A., Arabzadeh, N., Beheshti, S., and Bagheri, E. ACM Transactions on Intelligent Systems and Technology.
- TOIS'26 IF: 11.2 [EMPRA: Embedding Perturbation Rank Attack against Neural Ranking Models](#). Bigdeli, A., Arabzadeh, N., Bagheri, E., and Clarke, C. ACM Transactions on Information Systems.
- TOIS'25 IF: 11.2 [Query Performance Prediction Using Relevance Judgments Generated by Large Language Models](#). Meng, C., Arabzadeh, N., Askari, A., Aliannejadi, M., and de Rijke, M. ACM Transactions on Information Systems.
- TIST '25 IF: 10.7 [Query Performance Prediction Using Neural Query Space Proximity](#). Bigdeli, A., Ebrahimi, S., Arabzadeh, N., Salamat, S., Seyedsalehi, S., Khodabakhsh, M., Zarrinkalam, F., and Bagheri, E. ACM Transactions on Intelligent Systems and Technology.
- ML '25 IF: 4.9 [Gender disentangled representation learning in neural rankers](#). Seyedsalehi, S. Salamat, S. Arabzadeh, N. Ebrahimi, S. Zihayat, M. and Bagheri, E. In Machine Learning .
- ML '25 IF: 4.9 [A contrastive neural disentanglement approach for query performance prediction](#). Salamat, S. Arabzadeh, N. Seyedsalehi, S. Bigdeli, A. Zihayat, M. and Bagheri, E. In Machine Learning .
- ML '25 IF: 4.9 [Robust query performance prediction for dense retrievers via adaptive disturbance generation](#). Saleminezhad, A. Arabzadeh, N. Hamidi Rad, R. Beheshti, A. and Bagheri, E. In Machine Learning .
- JBI '23 IF: 5.9 [A self-supervised language model selection strategy for biomedical question answering](#). Arabzadeh, N. Bagheri, E. In Journal of Biomedical Informatics.
- IRJ '22 IF: 2.8 [Shallow pooling for sparse labels](#). Arabzadeh, N. Vtyurina, A. Yan, X. and A. Clarke, C. In Information Retrieval Journal.
- IP&M '20 IF: 8.1 [Neural Embedding-based Specificity Metrics for Pre-Retrieval Query Performance Prediction](#). Arabzadeh, N. Zarrinkalam, F. Jovanovic, J. Al-Obeidat, F. and Bagheri, E. In Information Processing and Management Journal.

Conference Papers

- ICML '26 Series A* [Characterizing Agents in Production](#). Pan, M., Arabzadeh, N., Cogo, R., Zhu, Y., Xiong, A., Agrawal, L. A., Mao, H., Shen, E., Pallerla, S., Patel, L., Liu, S., Shi, T., Liu, X., Davis, J. Q., Lacavalla, E., Basile, A., Yang, S., Castro, P., Kang, D., Sen, K., Song, D., Gonzalez, J., Stoica, I., Zaharia, M., and Ellis, M. In 43rd International Conference on Machine Learning.
- COLM '26 [DeepScholar-Bench: A Live Benchmark and Automated Evaluation for Generative Research Synthesis](#). Patel, L., Arabzadeh, N., Gupta, H., Sundar, A., Stoica, I., Zaharia, M., and Guestrin, C. In 3rd Conference on Language Modeling.
- SIGIR '26 Series A* [Can QPP Choose the Right Query Variant? Evaluating Query Variant Selection for RAG Pipelines](#). Arabzadeh, N., Drozdov, A., Bendersky, M., and Zaharia, M. In 49th International ACM SIGIR Conference on Research and Development in Information Retrieval.

- SIGIR '26
Series A* [Failing Forward: Understanding Query Failure in Retrieval, Judgment, and Generation.](#) Hosseini, S. M., **Arabzadeh, N.**, Saliminabi, M. H., Zihayat, M., Androutsos, D., and Bagheri, E. In 49th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- SIGIR '26
Series A* [From Doxa to Logos in Scientific Peer Review.](#) **Arabzadeh, N.**, Ebrahimi, S., Daqiq, A., Sadeghian, S., Hosseini, S. M., Le, H. S., Bashari, M., and Bagheri, E. In 49th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- SIGIR '26
Series A* [A Reproducibility Study of LLM-Based Query Reformulation.](#) Bigdeli, A., Hamidi Rad, R., Le, H. S., Incesu, M., **Arabzadeh, N.**, Clarke, C., and Bagheri, E. In 49th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- SIGIR '26
Series A* [Peerispect: Claim Verification in Scientific Peer Reviews.](#) Ghorbanpour, A., Sadeghian, S., Daghighfarsoodeh, A., Ebrahimi, S., **Arabzadeh, N.**, Hosseini, S. M., and Bagheri, E. In 49th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- SIGIR '26
Series A* [PeerPrism: Peer Evaluation Expertise vs Review-writing AI.](#) Sadeghian, S., Daqiq, A., Cheraghi, R., Ebrahimi, S., **Arabzadeh, N.**, and Bagheri, E. In 49th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- EMNLP '26
Series A* [RAG over Thinking Traces Can Improve Reasoning Tasks.](#) **Arabzadeh, N.**, Ma, W., Min, S., and Zaharia, M. In Proceedings of the 2026 Conference on Empirical Methods in Natural Language Processing.
- EMNLP '26
Series A* [Peerify: Benchmarking Peer-Review Claim Verification.](#) Daghighfarsoodeh, A., Ebrahimi, S., Ghorbanpour, A., Sadeghian, S., Cheraghi, R., **Arabzadeh, N.**, and Bagheri, E. In Proceedings of the 2026 Conference on Empirical Methods in Natural Language Processing: Industry Track.
- WSDM '26
Series A* [Can LLMs Uphold Research Integrity? Evaluating the Role of LLMs in Peer Review Quality.](#) **Arabzadeh, N.**, Ebrahimi, S., Sadeghian, S., Hosseini, S. M., Daqiq, A., Le, H. S., Bashari, M., and Bagheri, E. In 19th ACM International Conference on Web Search and Data Mining. **[Best Industry Paper Award]**
- ECIR '26
Series A [ReFormeR: Learning and Applying Explicit Query Reformulation Patterns.](#) Bigdeli, A., Incesu, M., **Arabzadeh, N.**, Clarke, C., and Bagheri, E. In 48th European Conference on Information Retrieval. **[Best Paper Award]**
- ECIR '26
Series A [Structure-Aware Pre-retrieval Performance Prediction on Query Affinity Graphs.](#) Saleminezhad, A., **Arabzadeh, N.**, Hosseini, S. M., Beheshti, S., and Bagheri, E. In 48th European Conference on Information Retrieval.
- WWW '26
Series A* [QueryGym: A Toolkit for Reproducible LLM-Based Query Reformulation.](#) Bigdeli, A., Hamidi Rad, R., Incesu, M., **Arabzadeh, N.**, Clarke, C., and Bagheri, E. In The ACM Web Conference.
- WWW '26
Series A* [PeeriScope: A Multi-Faceted Framework for Evaluating Peer Review Quality.](#) Ebrahimi, S., Sadeghian, S., Ghorbanpour, A., **Arabzadeh, N.**, Salamat, S., Hosseini, S. M., Le, H. S., Bashari, M., and Bagheri, E. In The ACM Web Conference.
- CIKM 2026
Series A [Seek: Self-Evaluative Exploration for Knowledge Retrieval.](#) Bigdeli, A., Hamidi Rad, R., **Arabzadeh, N.**, Ebrahimi, S., Le, H. S., Clarke, C., and Bagheri, E. In 35th ACM International Conference on Information and Knowledge Management.
- CIKM 2026
Series A [Judging a Review by its Cover: A Reliability Analysis of LLM-based Peer Review Evaluation Metrics.](#) Amirshahi, S., Ebrahimi, S., Le, H. S., **Arabzadeh, N.**, and Bagheri, E. In 35th ACM International Conference on Information and Knowledge Management.
- CIKM 2026
Series A [Reasoning About Query Difficulty to Predict Retrieval Effectiveness.](#) Hosseini, S. M., **Arabzadeh, N.**, Zihayat, M., and Bagheri, E. In 35th ACM International Conference on Information and Knowledge Management.

- CIKM 2026 Series A Reasoning-Aware Utility Estimation for Retrieval-Augmented Generation. Saleminezhad, A., Ebrahimi, S., **Arabzadeh, N.**, and Bagheri, E. In 35th ACM International Conference on Information and Knowledge Management.
- CIKM 2026 Series A Route Me If You Can: A Benchmark for Query Reformulation Selection. Le, H. S., **Arabzadeh, N.**, Bigdeli, A., Hamidi Rad, R., Ebrahimi, S., Clarke, C., and Bagheri, E. In 35th ACM International Conference on Information and Knowledge Management.
- CIKM 2026 Series A Reliable Evaluation of AI Assisted Peer Review. **Arabzadeh, N.**, Ebrahimi, S., Amirshahi, S., Hosseini, S. M., Le, H. S., Bashari, M., and Bagheri, E. In 35th ACM International Conference on Information and Knowledge Management.
- SIGIRAP '25 **Adversarial Attacks against Neural Ranking Models via In-Context Learning.** Bigdeli, A., **Arabzadeh, N.**, Bagheri, E., and Clarke, C. In 3rd International ACM SIGIR Conference on Information Retrieval in the Asia Pacific. **[Best Paper Runner-up]**
- SIGIR '25 Series A* **Benchmarking LLM-based Relevance Judgment Methods .** **Arabzadeh, N.** and Clarke, C. In 48th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- SIGIR '25 Series A* **A Human-AI Comparative Analysis of Prompt Sensitivity in LLM-Based Relevance Judgment .** **Arabzadeh, N.** and Clarke, C. In 48th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- SIGIR '25 Series A* **VAP3: Variation-Aware Prompt Performance Prediction .** **Arabzadeh, N.** and Bagheri, E. In 48th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- SIGIR '25 Series A* **IDAT: A Multi-Modal Dataset and Toolkit for Building and Evaluating Interactive Task-Solving Agents .** Mohanty, S. **Arabzadeh, N.** Tupini, A. Sun, Y. Skrynnik, A. Zholus, A. Cote, M. and Kiseleva J. In 48th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- CIKM '25 Series A **LLM-as-a-Judge in Entity Retrieval: Assessing Explicit and Implicit Relevance.** Saliminabi, M. H., **Arabzadeh, N.**, Hosseini, S. M., Androutsos, D., Zihayat, M., and Bagheri, E. In 34th ACM International Conference on Information and Knowledge Management.
- CIKM '25 Series A **Building Trustworthy Peer Review Quality Assessment Systems.** **Arabzadeh, N.**, Ebrahimi, S., Ghorbanpour, A., Sadeghian, S., Salamat, S., Li, M., Le, H. S., Bashari, M., and Bagheri, E. In 34th ACM International Conference on Information and Knowledge Management.
- CIKM '25 Series A **RottenReviews: Benchmarking Review Quality with Human and LLM-Based Judgments.** Ebrahimi, S., Sadeghian, S., Ghorbanpour, A., **Arabzadeh, N.**, Salamat, S., Li, M., Le, H. S., Bashari, M., and Bagheri, E. In 34th ACM International Conference on Information and Knowledge Management.
- ECIR '25 Series A **exHarmony: Authorship and Citations for Benchmarking the Reviewer Assignment Problem** Ebrahimi, S. Salamat, S. **Arabzadeh, N.** Bashari, M. and Bagheri, E. In 47th European Conference on Information Retrieval.
- ECIR '25 Series A **Benchmarking Prompt Sensitivity in Large Language Models** Razavi, A. Soltangheis, M. **Arabzadeh, N.** Salamat, S. Zihayat, M. and Bagheri, E. In 47th European Conference on Information Retrieval.
- EMNLP '24 Series A **Assessing and verifying task utility in llm-powered applications** **Arabzadeh, N.**, Huo, S. Mehta, N. Wu, Q. Wang, C. Awadallah, A. Clarke, C. Kiseleva, J. Proceedings of the '24 Conference on Empirical Methods in Natural Language Processing
- CIKM '24 Series A **Reviewerly: Modeling the Reviewer Assignment Task as an Information Retrieval Problem** **Arabzadeh, N.** Ebrahimi, S. Salamat, S. Bashari, M. and Bagheri, E. In 33rd ACM International Conference on Information and Knowledge Management

- SIGIRAP '24 [Evaluating Relative Retrieval Effectiveness with Normalized Residual Gain](#) Bigdeli, A. Arabzadeh, N. Bagheri, E. and Clarke, C. In 2nd International ACM SIGIR Conference on Information Retrieval in the Asia Pacific.
- SIGIRAP '24 [Offline Evaluation of Set-Based Text-to-Image Generation](#) Arabzadeh, N. Diaz, F. and He, J. In 2nd International ACM SIGIR Conference on Information Retrieval in the Asia Pacific.
- EACL '24 [Fréchet Distance for Offline Evaluation of Information Retrieval Systems with Sparse Labels.](#) Arabzadeh, N. and Clarke, C. In 18th Conference of the European Chapter of the Association for Computational Linguistics.
Series A
- ECIR '24 [LaQuE: Enabling Entity Search at Scale.](#) Arabzadeh, N. Bigdeli, A. and Bagheri E. In 46th European Conference on Information Retrieval.
Series A
- ECIR '24 [Adapting Standard Retrieval Benchmarks to Evaluate Generated Answers.](#) Arabzadeh, N. Bigdeli, A and Clarke, C. In 46th European Conference on Information Retrieval.
Series A
- ECIR '24 [Context-Aware Query Term Difficulty Estimation for Performance Prediction.](#) Saleminezhad, A. Arabzadeh, N. Bagheri, E. and Beheshti S. In 46th European Conference on Information Retrieval. [\[Best Paper Runner-up\]](#)
Series A
- ECIR '24 [Estimating Query Performance Through Rich Contextualized Query Representations.](#) Ebrahimi, S. Arabzadeh, N. Zarrinkalam, F. and Bagheri, E. In 46th European Conference on Information Retrieval.
Series A
- ECIR '24 [BertPE: A BERT-Based Pre-retrieval Estimator for Query Performance Prediction.](#) Khodabakhsh, M. Zarrinkalam, F. and Arabzadeh, N. In 46th European Conference on Information Retrieval.
Series A
- ECIR '24 [KnowFIRES: A Knowledge-Graph Framework for Interpreting Retrieved Entities from Search.](#) Arabzadeh, N. Golzadeh, K. Risi, C. Clarke, C. and Zhao J. In 46th European Conference on Information Retrieval.
Series A
- SIGIR '24 [Ranked List Truncation: From Retrieval to Re-ranking](#) Meng, C. Arabzadeh, N. Askari, A. Aliannejadi, M. de Rijke, M. In 47th International ACM SIGIR Conference on Research and Development in Information Retrieval.
Series A*
- EACL '23 [PREME: Preference-based Meeting Exploration through an Interactive Questionnaire.](#) Arabzadeh, N. Ahmadvand, A. Kiseleva, J. Liu, Y. Awadallah, AH. Zhong, M. Shokouhi, M. In 17th Conference of the European Chapter of the Association for Computational Linguistics.
Series A
- CIKM '23 [Noisy Perturbations for Estimating Query Difficulty in Dense Retrievers.](#) Arabzadeh, N. Hamidi Rad, R. Khodabakhsh, M. and Bagheri, E. In 32th ACM International Conference on Information and Knowledge Management
Series A
- CIKM '23 [Neural Disentanglement of Query Difficulty and Semantics.](#) Salamat, S. Arabzadeh, N. Seyed-salehi, S. Bigdeli, A. Zihayat, M. and Bagheri, E. In 32th ACM International Conference on Information and Knowledge Management.
Series A
- SIGIR '23 [Quantifying Ranker Coverage of Different Query Subspaces.](#) Arabzadeh, N. Bigdeli, A. Hamidi Rad, R. and Bagheri, E. In 46th International ACM SIGIR Conference on Research and Development in Information Retrieval.
Series A*
- SIGIR '23 [Query Performance Prediction: From Ad-hoc to Conversational Search.](#) Meng, C. Arabzadeh, N. Aliannejadi, M. de Rijke M. In 46th International ACM SIGIR Conference on Research and Development in Information Retrieval.
Series A*
- SIGIR '23 [A Preference Judgment Tool for Authoritative Assessment.](#) Seifkar, M. Nhi L. Arabzadeh, N. Smucker M. and Clarke C. In 46th International ACM SIGIR Conference on Research and Development in Information Retrieval.
Series A*

- ICTIR '23 [A is for Adele: An Offline Evaluation Metric for Instant Search.](#) Arabzadeh, N. Kmet, O. Carterette, B. Clarke C. Hauff, C. and Chandar, P. The 13th International Conference on the Theory of Information Retrieval.
- SIGIRAP '23 [Retrieving Supporting Evidence for LLMs Generated Answers.](#) Huo, S. Arabzadeh, N. and Clarke C. In 1st International ACM SIGIR Conference on Information Retrieval in the Asia Pacific.
- ECIR '23 [Learning Query-Space Document Representations for High-Recall Retrieval.](#) Salamat, S. Arabzadeh, N. Zarrinkalam, F. Zihayat, M. Bagheri, E. In 45th European Conference on Information Retrieval.
- ECIR '23 [De-biasing Relevance Judgements for Fair Ranking.](#) Bigdeli, A. Arabzadeh, N. Seyedsalehi, S. Zihayat, M. and Bagheri, E. In 45th European Conference on Information Retrieval.
- ECIR '23 [Don't Raise Your Voice, Improve Your Argument: Learning to Retrieve Convincing Arguments.](#) Salamat, S. Arabzadeh, N. Zarrinkalam, F. Zihayat, M. and Bagheri, E. In 45th European Conference on Information Retrieval.
- ECIR '23 [Neural Ad-Hoc Retrieval Meets Open Information Extraction.](#) Vo, D. Zarrinkalam, F. Pham, B. Arabzadeh, N., Salamat, S. and Bagheri, E. In 45th European Conference on Information Retrieval.
- ECIR '22 [A Light-weight Strategy for Restraining Gender Biases in Neural Rankers.](#) Seyedsalehi, S. Bigdeli, A. Arabzadeh, N. Zihayat, M. and Bagheri, E. In 44rd European Conference on Information Retrieval. [\[Best Paper Award\]](#)
- PMLR'22 [Interactive Grounded Language Understanding in a Collaborative Environment: Retrospective on IGLU '22 Competition.](#) Kiseleva, J. Skrynnik, A. Zholus, A. Mohanty, S. Arabzadeh, N. Côté, M. Aliannejadi, M. Teruel, M. Li, Z. Burtsev, M. ter Hoeve, M. Volovikova, Z. Panov, A. Sun, y. Srinet, K. Szlam, A. Awadallah, A. Rho, S. Kwon, T. Wontae Nam, D. Bivort Haiek, F. Zhang, E. Abdrazakov, L. Qingyam, G. Zhang, J. Guo, Z.
- CIKM '22 [Unsupervised Question Clarity Prediction Through Retrieved Item Coherency.](#) Arabzadeh, N. Seifkar, M. Clarke, C. In 31st ACM International Conference on Information and Knowledge Management.
- CIKM '22 [Early Stage Sparse Retrieval with Entity Linking.](#) Shehata, D. Arabzadeh, N. Clarke, C. In 31st ACM International Conference on Information and Knowledge Management.
- SIGIR '22 [Addressing Gender-related Performance Disparities in Neural Rankers.](#) Seyedsalehi, S. Arabzadeh, N. Bigdeli, A. Zihayat, M. and Bagheri, E. In 45th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- EDBT '22 [Bias-aware Fair Neural Ranking for Addressing Stereotypical Gender Biases.](#) Bigdeli, A. Arabzadeh, N. Seyedsalehi, S. Zihayat, M. and Bagheri, E. In 25th International Conference on Extending Database Technology.
- CIKM '21 [Predicting Efficiency/Effectiveness Trade-offs for Sparse vs. Dense Retrieval Strategy Selection.](#) Arabzadeh, N. Clarke, C. and Yan, X. In 30th ACM International Conference on Information and Knowledge Management.
- CIKM '21 [BERT-QPP: Contextualized Pre-trained transformers for Query Performance Prediction.](#) Arabzadeh, N. Khodabakhsh, M. and Bagheri, E. In 30th ACM International Conference on Information and Knowledge Management.
- CIKM '21 [Matches Made in Heaven: Toolkit and Large-Scale Datasets for Supervised Query Reformulation.](#) Arabzadeh, N. Bigdeli, A. Seyedsalehi, S. Zihayat, M. and Bagheri, E. In 30th ACM International Conference on Information and Knowledge Management.

- CIKM '21 [MS Marco Chameleons: Challenging the MSMarco Leaderboard with Extremely Obstinate Queries](#). Arabzadeh, N. Mitra, B. and Bagheri, E. In 30th ACM International Conference on Information and Knowledge Management.
- SIGIR '21 [On the Orthogonality of Bias and Effectiveness in Ad hoc Retrieval](#). Bigdeli, A. Arabzadeh, N. Seyedsalehi, S. Zihayat, M. and Bagheri, E. In 44th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- ECIR '21 [Query Performance Prediction through Retrieval Coherency](#). Arabzadeh, N. Bigdeli, A. Zihayat, M. and Bagheri, E. In 43rd European Conference on Information Retrieval.
- ECIR '21 [Exploring Gender Biases in Information Retrieval Relevance Judgement Datasets](#). Bigdeli, A. Arabzadeh, N. Zihayat, M. and Bagheri, E. In 43rd European Conference on Information Retrieval.
- SIGIR '20 [Vis-Trec: A System for the In-depth Analysis of trec_eval Results](#). Tamannaee, M. Arabzadeh, N. and Bagheri, E. In 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval.
- ECIR '20 [Neural Embedding-based Metrics for Pre-Retrieval Query Performance Prediction](#). Arabzadeh, N. Zarrinkalam, F. Jovanovic, J. and Bagheri, E. In 42nd European Conference on Information Retrieval.
- CIKM '19 [Geometric Estimation of Specificity within Embedding Spaces](#). Arabzadeh, N. Zarrinkalam, F. Jovanovic, J. and Bagheri, E. In Proceedings of the 28th ACM International Conference on Information and Knowledge Management.
- CIKM '18 [Causal Dependencies for Future Interest Prediction on Twitter](#). Arabzadeh, N. Fani, H. Zarrinkalam, F. Navivala, A. and Bagheri, E. In Proceedings of the 27th ACM International Conference on Information and Knowledge Management.

AWARDS AND HONORS

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| 2026 | SIGIR Early Career Researcher Award (Community Engagement)
Best Industrial Talk Award , WSDM 2026
3rd Place, Mathematics Doctoral Prize Competition , University of Waterloo
Best Paper Award , ECIR 2026 |
| 2025 | Gold Medal Candidate for Outstanding PhD Thesis, University of Waterloo
Best Paper Runner-Up Award , SIGIR-AP 2025
Best Reviewer Award, SIGIR 2025 |
| 2024 | Honourable mention paper at ECIR 2024
Ontario Graduate Scholarship (15,000 CAD per year for two years)
ECIR 2024 student travel award
SIGIR-AP 2024 student travel award |
| 2023 | Distinguished Referee at ACM CIKM 2023
David R. Cheriton Graduate Scholarship (20,000 CAD)
SIGIR 2023 student travel award
Talent travel bursary for Canadian AI conference |
| 2022 | Best Paper Award at ECIR 2022
Talent Travel Bursary for Amii AI Week |

2021	Returning offer for Microsoft Research internship [Declined] Best Reviewer Award at CIKM 2021 Provost doctoral entrance award for women, University of Waterloo (5,000 CAD) University of Waterloo entrance scholarship (5,000 CAD)
2019	Runner-up in SOSICIP 3-Minute Thesis Competition
2017	Toronto Metropolitan University graduate development award (10,000 CAD)
2012	Granted exemption from university entrance exam for B.Sc STEM majors due to outstanding achievements in robotics competitions
2011	1st place at Khwarizmi International Award (Junior Soccer Robots League)
2010	Qualified for RoboCup 2010 (Junior Soccer League) 1st place at IranOpen 2010 (Junior Soccer Robots League) 1st place at AUT Cup (Pathfinder Robots League)

COMMUNITY AND PROFESSIONAL SERVICE

Workshop Organization

2025	IR-RAG: Workshop on Information Retrieval's Role in RAG Systems (SIGIR 2025) Organizers: Arabzadeh, N. , Ziheng Chen, Fabio Petroni, Federico Siciliano, Fabrizio Silvestri, Giovanni Trappolini
2025	Vision-Language Models: Challenges of Real-World Deployment (NeurIPS 2025) Organizers: Mozhgan Nasr Azadani, Yimu Wang, Krzysztof Czarnecki, Arabzadeh, N. , Richard He Bai, Lukas Schmid

Tutorials

2026	Query Expansion Revisited: From Classical Retrieval to Agentic Search (CIKM 2026) Bigdeli, A., Hamidi Rad, R., Le, H. S., Lei, Y., Yates, A., Arabzadeh, N. , Clarke, C. L. A., Bagheri, E.
2025	Query Performance Prediction: Theory, Techniques and Applications (WSDM 2025) Arabzadeh, N. , Meng, C., Aliannejadi, M., Bagheri, E.
2024	Query Performance Prediction: Techniques and Applications in Information Retrieval (SIGIR-AP 2024) Arabzadeh, N. , Meng, C., Aliannejadi, M., Bagheri, E.
2024	Query Performance Prediction: From Fundamentals to Advanced Techniques (ECIR 2024) Arabzadeh, N. , Meng, C., Aliannejadi, M., Bagheri, E.
2023	Preference-Based Offline Evaluation (WSDM 2023) Clarke, C., Diaz, F., Arabzadeh, N.
2023	Understanding and Mitigating Gender Bias in Information Retrieval Systems (ECIR 2023) Bigdeli, A., Arabzadeh, N. , Seyedsalehi, S., Zihayat, M., Bagheri, E.
2022	Gender Fairness in Information Retrieval Systems (SIGIR 2022) Bigdeli, A., Arabzadeh, N. , Seyedsalehi, S., Zihayat, M., Bagheri, E.

Competition Organization

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| 2022 | IGLU Challenge (Interactive Grounded Language Understanding) (NeurIPS 2022)
Co-organizer of a large-scale NLP challenge on human-AI collaboration.
Led task design, dataset curation, and evaluation protocol; attracted 30+ participating teams. |
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Community Leadership

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| 2024 | SIGIR Virtual Forum
Organized and moderated a monthly seminar series with academic and industry speakers. |
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Panel Participation

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| 2026 | WExIR Workshop (SIGIR 2026)
AgentSearch Workshop (SIGIR 2026)
Doctoral Symposium Panelist (WSDM 2026) |
| 2025 | Doctoral Symposium Panelist (CIKM 2025)
ProActLLM Workshop (CIKM 2025) |
| 2024 | Responsible AI Panel (Canadian AI 2024) |

Chairing Roles

- | | |
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| 2026 | Reproducibility Track Chair, SIGIR 2026
Publicity Chair, CHIIR 2026
Workshop Track Chair, ECIR 2026
Area Chair, SIGIR 2026
Area Chair, NeurIPS 2026
Area Chair, ACL Rolling Review (ARR 2026) |
| 2025 | Session Chair, CIKM 2025 |
| 2024 | Session Chair, SIGIR-AP 2024 |

Program Committee

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| AAAI : 2026
The Web Conference : 2024–2026
ECIR : 2022–2026
CIKM : 2021–2026
SIGIR : 2023–2026
RecSys : 2023 |
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Peer Review Service

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| ICML: 2026
ICLR: 2026
ACL Rolling Review: 2022–2026
ICWSM: 2021 |
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INVITED TALKS

Measuring Agents in Production

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| 2026 | Invited Talk at Frontiers Research Club |
| 2025 | Invited Talk at NICE
Invited Talk at Google Sense AI
Invited Talk at NVIDIA |

Building and Optimizing Compound AI Systems in Production

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| 2025 | Keynote Talk at Workshop on Recommender Systems for Sustainable Development |
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Evaluation of Information Retrieval Systems in the Generative Era

- 2025 | Invited Talk at [Thomson Reuters Research Lab](#)
- 2024 | Invited Talk at University of California Berkeley [Sky Computing Lab](#)
- 2024 | Keynote Talk at [The 1st International Workshop on Open Web Search](#)

Gender Fairness in Information Retrieval Systems

- 2023 | Invited Talk at IEEE Women in Engineering Seminar Series
- Invited Talk at University of Glasgow Information Retrieval Group
- 2022 | Invited Talk at DEFIRST Reading Group @ MILA x Vector Institute
- Invited Talk at Spotify SPECS Conference

A Close Look at MS MARCO Hard Queries and Sparse Labels

- 2021 | Invited Talk at Microsoft Bing Research Group

WORK EXPERIENCE

- CURRENT | Head of Data Science team- [Reviewerly](#)
- 2023 | Leading R&D on reviewer recommendation and expert finding for the peer review process.
- 2021 | Research Associate - [University of Waterloo](#)
- 2020 | Conducting research on neural indexing, dense passage retrieval and conversational search
- 2022 | Consultant - [GetWare](#)
- 2021 | Consulting with question answering and semantic search engine
- 2020 | Research Associate - [Toronto Metropolitan University](#)
- 2019 | Conducting research in information retrieval
- 2019 | Data scientist - [Boss Insights](#)
- Design a model to predict start-up companies failure or success using machine learning techniques
- 2017 | Software developer - [Jahanjoy](#)
- 2016 | Developing an advertisement website crawler, developed by C# , using MongoDB
- 2015 | Robotic supervisor at [National Organization for Development of Exceptional Talents](#)
- 2012 | Mentoring and teaching programming and electronic to high school students for robotic competitions.

TEACHING ASSISTANT

- 2024-2025 | Introduction to Artificial Intelligence (CS486/686), University of Waterloo
- 2024 | Information Systems Management (CS490), University of Waterloo
- 2023 | Management Information Systems (CS330), University of Waterloo
- 2022-2023 | Introduction to Computer Science 2 (CS116), University of Waterloo
- 2021-2023 | Elementary Algorithm Design and Data Abstraction (CS136), University of Waterloo
- 2019-2020 | Intelligent Systems (EE8219/ELE888), Toronto Metropolitan University
- 2018-2019 | Business Intelligence and Analytics (ITM618), Toronto Metropolitan University
- 2018 | Data Structures and Algorithms (COE428), Toronto Metropolitan University
- 2017-2021 | Microprocessors (COE538), Toronto Metropolitan University
- 2017 | Industrial Automation, AmirKabir University of technology

MENTORSHIP

2024- 2026	Sajad Ebrahimi - Master's Thesis: Learning to Rank via Denoising Diffusion
2023- 2026	Abbas Saleminezhad - PhD Thesis: Context-Aware Query Performance Prediction
2024- 2026	Amirhosein Razavi - Master's Thesis: Prompt Performance Prediction
2022- 2024	Sara Salamat - Master's Thesis: Neural Disentanglement of Query Difficulty and Semantics
2022- 2023	Siqing Huo - Master's Thesis: Retrieving Supporting Evidence for LLM Generated Answers
2021- 2022	Mahsa Seifikar - Master's Thesis: A Preference Judgment Tool for Authoritative Assessment
2021- 2022	Dahlia Shehata - Master's thesis: Early Stage Sparse Retrieval with Entity Linking
2019- 2021	Amin Bigdeli - Master's Thesis: Gender bias in Information Retrieval systems