

# Negar Arabzadeh

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## ACADEMIC APPOINTMENTS

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CURRENT | Postdoctoral Fellow  
University of California Berkeley, USA  
SPRING 2025 | Supervisor: [Dr. Matei Zaharia](#)

## EDUCATION

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SPRING 2025 | PhD in Computer Science, GPA: 93/100  
University of Waterloo, Canada  
Supervisor: [Dr. Charles L. A. Clarke](#)  
WINTER 2021 | Thesis: [Evaluation of Information Access Systems in the Generative Era](#)  
FALL 2019 | Master of Applied Science in Electrical and Computer Engineering, GPA: 4.0/4.0  
Toronto Metropolitan University, Canada  
Supervisor: [Dr. Ebrahim Bagheri](#)  
FALL 2017 | Thesis: [“Neural Embedding-based Specificity Metrics for Query Performance Prediction”](#)  
SPRING 2017 | Bachelor of Science in Electrical Engineering (Control Systems), GPA: 78/100  
Amirkabir University of Technology (Tehran Polytechnic), Iran  
FALL 2012 | Thesis: [“Design and implementation of intelligent shopping cart”](#)  
FALL 2012 | Diploma in Mathematics and Physics, Farzanegan1 HighSchool  
FALL 2009 | [NODET \(National Organization for Development of Exceptional Talents\)](#) , Iran

## INTERNSHIPS AND RESEARCH EXPERIENCE

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

## RESEARCH INTERESTS

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Information Retrieval

Retrieval-Augmented Generation

Evaluation

## AWARDS AND HONORS

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2026	<a href="#">Best Industrial Talk Award</a> , WSDM 2026 3rd Place, Mathematics Doctoral Prize Competition, University of Waterloo <a href="#">Best Paper Award</a> at ECIR 2026
2025	Gold Medal Candidate for Outstanding PhD Thesis, University of Waterloo <a href="#">Best Paper Runner-Up Award</a> , SIGIR-AP 2025 Best Reviewer Award, SIGIR 2025
2024	<a href="#">Honourable mention paper</a> at ECIR 2024 <a href="#">Ontario Graduate Scholarship</a> (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 <a href="#">David R. Cheriton Graduate Scholarship</a> (20,000 CAD) SIGIR 2023 student travel award Talent travel bursary for Canadian AI conference
2022	<a href="#">Best Paper Award at ECIR 2022</a> Talent Travel Bursary for <a href="#">Amii AI Week</a>
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 <a href="#">SOSCIP</a> 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 <a href="#">Khwarizmi International Award</a> (Junior Soccer Robots League)
2010	Qualified for <a href="#">RoboCup 2010</a> (Junior Soccer League) 1st place at <a href="#">IranOpen 2010</a> (Junior Soccer Robots League)
2009	1st place at <a href="#">AUT Cup</a> (Pathfinder Robots League)
2008	Placed among top 0.5% of 60,000 participants in NODET ( <a href="#">National Organization for Development of Exceptional Talents</a> )

## COMMUNITY AND PROFESSIONAL SERVICE

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### Workshop Organization

SIGIR 2025	<a href="#">IR-RAG: Workshop on Information Retrieval's Role in RAG Systems</a> Organizers: <b>Arabzadeh, N.</b> , Ziheng Chen, Fabio Petroni, Federico Siciliano, Fabrizio Silvestri, Giovanni Trappolini
NeurIPS 2025	<a href="#">Vision-Language Models: Challenges of Real-World Deployment</a> Organizers: Mozghan Nasr Azadani, Yimu Wang, Krzysztof Czarnecki, <b>Arabzadeh, N.</b> , Richard He Bai, Lukas Schmid

## Tutorials

WSDM 2025	<a href="#">Query Performance Prediction: Theory, Techniques and Applications</a> Arabzadeh, N., Meng, C., Aliannejadi, M., Bagheri, E.
SIGIR-AP 2025	<a href="#">Query Performance Prediction: Techniques and Applications in Information Retrieval</a> Arabzadeh, N., Meng, C., Aliannejadi, M., Bagheri, E.
ECIR 2024	<a href="#">Query Performance Prediction: From Fundamentals to Advanced Techniques</a> Arabzadeh, N., Meng, C., Aliannejadi, M., Bagheri, E.
WSDM 2023	<a href="#">Preference-Based Offline Evaluation</a> Clarke, C., Diaz, F., Arabzadeh, N.
ECIR 2023	<a href="#">Understanding and Mitigating Gender Bias in Information Retrieval Systems</a> Bigdeli, A., Arabzadeh, N., Seyedsalehi, S., Zihayat, M., Bagheri, E.
SIGIR 2022	<a href="#">Gender Fairness in Information Retrieval Systems</a> Bigdeli, A., Arabzadeh, N., Seyedsalehi, S., Zihayat, M., Bagheri, E.

## Competition Organization

NeurIPS 2022	<a href="#">IGLU Challenge (Interactive Grounded Language Understanding)</a> 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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## Panel Participation

2026	Doctoral Symposium Panelist, ACM WSDM 2026
2025	Doctoral Symposium Panelist, ACM CIKM 2025
2025	<a href="#">ProActLLM Workshop (CIKM 2025)</a>
2024	<a href="#">Responsible AI Panel, Canadian AI 2024</a>

## Community Leadership

2024	SIGIR Virtual Forum Organized and moderated a monthly seminar series by inviting speakers from academia and industry.
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## Chairing Roles

2026	<a href="#">Reproducibility Track Chair, SIGIR 2026</a> <a href="#">Publicity Chair, CHIIR 2026</a> <a href="#">Workshop Track Chair, ECIR 2026</a> 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

<a href="#">The Web Conference: 2024–2026</a>
<a href="#">ECIR: 2022–2026</a>
<a href="#">CIKM: 2021–2026</a>
<a href="#">SIGIR: 2023–2026</a>
<a href="#">ICTIR: 2023–2024</a>
<a href="#">RecSys: 2023</a>

## Peer Review Service

ICML: 2026  
ICLR: 2026  
ACL Rolling Review: 2022–2024  
ICWSM: 2021

## PUBLICATIONS

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### 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*, 2025. 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, 2024. Edited by Ryen White and Chirag Shah.

### Peer-Reviewed Publications

- SIGIR 2026 [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 2026 [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 2026 [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 2026 [A Reproducibility Study of LLM-Based Query Reformulation.](#) Bigdeli, A., Hamidi Rad, R., Le, H. S., Incesu, M., **Arabzadeh, N.**, Clarke, C. L. A., and Bagheri, E. In 49th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- SIGIR 2026 [Peerspect: 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 2026 [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.
- ECIR 2026 [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.
- ECIR 2026 [ReFormerR: Learning and Applying Explicit Query Reformulation Patterns.](#) Bigdeli, A., Incesu, M., **Arabzadeh, N.**, Clarke, C. L. A., and Bagheri, E. In 48th European Conference on Information Retrieval. **[Best Paper Award]**

- WSDM 2026 [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 Indurty Paper Award]
- WWW 2026 [QueryGym: A Toolkit for Reproducible LLM-Based Query Reformulation.](#) Bigdeli, A., Hamidi Rad, R., Incesu, M., Arabzadeh, N., Clarke, C. L. A., and Bagheri, E. In The ACM Web Conference.
- WWW 2026 [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.
- TIST 2026 [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.
- SIGIR-AP 2025 [Adversarial Attacks against Neural Ranking Models via In-Context Learning.](#) Bigdeli, A., Arabzadeh, N., Bagheri, E., and Clarke, C. L. A. In 3rd International ACM SIGIR Conference on Information Retrieval in the Asia Pacific. [Best Paper Runner-up]
- SIGIR 2025 [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 2025 [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 2025 [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 2025 [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. Zhohus, A. Cote, M. and Kiseleva J. In 48th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- CIKM 2025 [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 2025 [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 2025 [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.
- TIST 2025 [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.
- JML 2025 [Gender disentangled representation learning in neural rankers.](#) Seyedsalehi, S. Salamat, S. Arabzadeh, N. Ebrahimi, S. Zihayat, M. and Bagheri, E. In Journal of Machine Learning.
- JML 2025 [A contrastive neural disentanglement approach for query performance prediction .](#) Salamat, S. Arabzadeh, N. Seyedsalehi, S. Bigdeli, A. Zihayat, M. and Bagheri, E. In Journal of Machine Learning.
- JML 2025 [Robust query performance prediction for dense retrievers via adaptive disturbance generation.](#) Saleminezhad, A. Arabzadeh, N. Hamidi Rad, R. Beheshti, A. and Bagheri, E. In Journal of Machine Learning.

- ECIR 2025 [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 2025 [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 2024 [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 2024 Conference on Empirical Methods in Natural Language Processing
- CIKM 2024 [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
- SIGIR AP 2024 [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.
- SIGIR AP 2024 [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 2024 [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.
- ECIR 2024 [LaQuE: Enabling Entity Search at Scale.](#) **Arabzadeh**, N. Bigdeli, A. and Bagheri E. In 46th European Conference on Information Retrieval.
- ECIR 2024 [Adapting Standard Retrieval Benchmarks to Evaluate Generated Answers.](#) **Arabzadeh**, N. Bigdeli, A and Clarke, C. In 46th European Conference on Information Retrieval.
- ECIR 2024 [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]**
- ECIR 2024 [Estimating Query Performance Through Rich Contextualized Query Representations.](#) Ebrahimi, S. **Arabzadeh**, N. Zarrinkalam, F. and Bagheri, E. In 46th European Conference on Information Retrieval.
- SIGIR 2024 [Ranked List Truncation: From Retrieval to Re-ranking](#) Meng, C. **Arabzadeh**, N. Askari, A. Alian-nejadi, M. de Rijke, M. In 47th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- EACL 2023 [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.
- CIKM 2023 [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
- CIKM 2023 [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.
- SIGIR 2023 [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.

- SIGIR 2023 [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.
- SIGIR 2023 [A Preference Judgment Tool for Authoritative Assessment](#). Seifikar, M. Nhi L. Arabzadeh, N. Smucker M. and Clarke C. In 46th International ACM SIGIR Conference on Research and Development in Information Retrieval.
- ICTIR 2023 [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.
- SIGIR AP 2023 [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 2023 [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 2023 [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 2023 [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 2023 [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.
- JBI 2023 [A self-supervised language model selection strategy for biomedical question answering](#). Arabzadeh, N. Bagheri, E. In Journal of Biomedical Informatics.
- Neurips 2022 [Interactive Grounded Language Understanding in a Collaborative Environment: Retrospective on Iglu 2022 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.
- IRJ 2022 [Shallow pooling for sparse labels](#). Arabzadeh, N. Vtyurina, A. Yan, X. and A. Clarke, C. In Information Retrieval Journal.
- CIKM 2022 [Unsupervised Question Clarity Prediction Through Retrieved Item Coherency](#). Arabzadeh, N. Seifikar, M. Clarke, C. In 31th ACM International Conference on Information and Knowledge Management.
- CIKM 2022 [Early Stage Sparse Retrieval with Entity Linking](#). Shehata, D. Arabzadeh, N. Clarke, C. In 31th ACM International Conference on Information and Knowledge Management.
- SIGIR 2022 [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 2022 [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 2021 [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 2021 [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 2021 [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 2021 [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 2021 [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.
- TREC 2021 [WaterlooClarke at the TREC 2021 Conversational Assistant Track](#). Yan, X. Clarke, C. and Arabzadeh, N. In 30th Text Retrieval Conference.
- ECIR 2022 [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]**
- ECIR 2021 [Query Performance Prediction through Retrieval Coherency](#). Arabzadeh, N. Bigdeli, A. Zihayat, M. and Bagheri, E. In 43rd European Conference on Information Retrieval.
- ECIR 2021 [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.
- TREC 2020 [WaterlooClarke at the Trec 2020 Conversational Assistant Track](#). Arabzadeh, N. Clarke, C. In 29th Text Retrieval Conference.
- IP&M 2020 [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.
- ECIR 2020 [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 2019 [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 2018 [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.

## SKILLS

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TOOLS	TensorFlow, PyTorch, Large Language Models, Transformers. Docker, Google Cloud Platform , BigQuery
PROGRAMMING	Python, R, C++ , SQL, MongoDB, Assembly, HTML
SOFTWARE	MATLAB , Kinect Image processing, Proteus, Altium Designer , SolidWorks
HARDWARE	ARM, AVR, Arduino Boards

## INVITED TALKS

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### Measuring Agents in Production

December 2025 | Invited Talk at NICE Talk Series  
Fall 2025 | Invited Talk at Google Sense AI

### Building and Optimizing Compound AI Systems in Production

Fall 2025 | Keynote Talk at [Workshop on Recommender Systems for Sustainable Development](#)

### Evaluation of Information Retrieval Systems in the Generative Era

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

### Gender Fairness in Information Retrieval Systems

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

### A Close Look at MS MARCO Hard Queries and Sparse Labels

Fall 2021 | Invited Talk at Microsoft Bing Research Group

## WORK EXPERIENCE

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

## MENTORSHIP

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

## TEACHING ASSISTANT

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- 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 Bus Intelligence and Analytics (ITM618), Toronto Metropolitan University
- 2018 Data Structure and algorithm (COE428), Toronto Metropolitan University
- 2017-2021 Microprocessors (COE538), Toronto Metropolitan University
- 2017 Industrial Automation, Amirkabir University of technology