NIMA SHAHBAZI

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RESEARCH INTEREST

Data preparation, data management, algorithmic fairness, responsible AI, algorithmic databases and data mining.

EDUCATION

Ph.D. in Computer Science, **University of Illinois Chicago**	2020 - 2025
advisor: Dr. Abolfazl Asudeh	
M.Sc. in Computer Science, **The University of Texas at Dallas**	2018 - 2020
B.E. in Computer Engineering, **University of Isfahan**	2008 - 2013

WORK EXPERIENCE

Research/Teaching Assistant, **University of Illinois Chicago**	2020 - Present
Research Scientist Intern, **Megagon Labs**	May 2023 - Aug 2023
Teaching Assistant **The University of Texas at Dallas**	2018 - 2020

CONFERENCE

1. **Nima Shahbazi**, Mahdi Erfaninan, Abolfazl Asudeh, Fatemeh Nargesian, and Divesh Srivastava "FairEM360: A Suite for Responsible Entity Matching", in *VLDB 2024*

2. Sana Ebrahimi, **Nima Shahbazi** and Abolfazl Asudeh "REALM: Reliability and Equity through Aggregation in Large Language Models", in *NAACL Findings 2024*.

3. **Nima Shahbazi**, Jin Wang, Zhengjie Miao and Nikita Bhutani "Fairness-aware Data Preparation for Entity Matching", in *ICDE 2024*.

4. **Nima Shahbazi**, Stavros Sintos and Abolfazl Asudeh "FairHash: A Fair and Memory/Time-efficient Hash Map", in *SIGMOD 2024*.

5. Melika Mousavi, **Nima Shahbazi** and Abolfazl Asudeh "Crowdsourcing Representation Bias Identification in form of Data Coverage in Image Data Sets", in *EDBT 2024*.

6. **Nima Shahbazi**, Nikola Danevski, Fatemeh Nargesian, Abolfazl Asudeh and Divesh Srivastava "Through the Fairness Lens: Experimental Analysis and Evaluation of Entity Matching", in *VLDB 2023*

7. Abolfazl Asudeh, **Nima Shahbazi**, Zhongjun Jin and H.V. Jagadish "Identifying Insufficient Data Coverage for Ordinal Continuous-Valued Attributes", in *SIGMOD 2021*.

8. (In progress) **Nima Shahbazi**, Mohsen Dehghankar, Abolfazl Asudeh, Fatemeh Nargesian, and Divesh Srivastava "Leveraging LLM-powered Data Augmentation for Fairness-aware Entity Matching", in *To be submitted to SIGMOD 2025*

JOURNAL

1. **Nima Shahbazi** and Abolfazl Asudeh "Reliability Evaluation of Individual Predictions: A Data-centric Approach", in *VLDB Journal 2024*.

2. **Nima Shahbazi**, Mahdi Erfanian and Abolfazl Asudeh "Coverage-based Data-centric Approaches for Responsible and Trustworthy AI", in *IEEE Data Engineering Bulletin 2024*.

3. **Nima Shahbazi**, Yin Lin, Abolfazl Asudeh and H.V. Jagadish "Representation Bias in Data: A Survey on Identification and Resolution Techniques", in *ACM Computing Surveys 2023*.

WORKSHOP

1. Khanh Duy Nguyen, **Nima Shahbazi** and Abolfazl Asudeh "PopSim: Individual-level Population Simulation for Equitable Allocation of City Resources", in *AFair-AMLD 2024*.

2. Hantian Zhang, **Nima Shahbazi**, Xu Chu and Abolfazl Asudeh "FairRover: Explorative Model Building for Fair and Responsible Machine Learning", in *DEEM 2021*.

SKILLS

Programming: Python, Java, C++, SQL, Full-stack Web Development

PROFESSIONAL SERVICES

- Reviewer at *TKDE* Journal   2024
- PC member at *CIKM'24*   2024
- Reviewer at *TKDD'24*   2024
- ARI reviewer at *SIGMOD'24*   2023
- ARI reviewer at *SIGMOD'23*   2022
- External reviewer at *ICDE'23*   2022
- Reviewer at *Information Systems* journal   2021
- Mentored 4 students for their senior/master's thesis at University of Illinois Chicago   2021-present
- Student volunteer at *VLDB'20*   2020

HONORS AND AWARDS

- Ranked top 2% in the Iranian university entrance exam.   2008
- Collaborator on NSF-funded project (IIS-2348919): Fairness-aware Data Structures for Approximate Query Processing, contributing to a successful proposal that secured $499,999 in funding, alongside PIs Abolfazl Asudeh and Stavros Sintos.