

Bahare Fatemi

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LinkedIn, GitHub, Google Scholar, Website

- EDUCATION**
- ◇ **Ph.D. in Computer Science**, University of British Columbia, 2017 - present,
Research Area: Graph Representation Learning, Relational Reasoning.
Supervisor: Prof. David Poole.
 - ◇ **M.Sc. in Computer Science**, University of British Columbia, 2015 - 2017, **GPA: 90.8/100**,
Research Area: Machine Learning, NLP, Information Retrieval (Link to thesis).
Supervisor: Prof. David Poole.
 - ◇ **B.Sc. in Software Engineering**, Amirkabir University of Technology, 2011 - 2015, **GPA: 18.46/20**,
Thesis: Efficient elimination ordering for inference in probabilistic graphical models.
Supervisor: Prof. Shahram Khadivi.
- WORK EXPERIENCE**
- ◇ **Research Intern at Borealis AI:** June 2020 - October 2020, Research on structure learning for Graph Neural Networks, **Supervisors:** Layla El Asri and Seyed Mehran Kazemi.
 - ◇ **Research Intern at Element AI:** November 2018 - May 2020, Research on representation learning for knowledge (hyper)graphs, **Supervisors:** David Vázquez Bermúdez and Perouz Taslakian.
 - ◇ **Machine Learning Contractor at TELUS:** July 2016 - September 2017, Designed a probabilistic entity-resolution model for searching TELUS billing accounts. Our model improved TELUS's existing search tools (costing hundreds of thousand dollars per year) by 12%, **Supervisor:** Mike Tyndall.
 - ◇ **Software Developer at SOHATO:** February 2015 - August 2015, Back-end developer for a large national project in Iran, **Supervisor:** Amir Rasekh.
 - ◇ **Software Engineer Intern at TCI Khorasan Razavi:** May 2014 - August 2014, Design and implementation of an automated data management system, **Supervisor:** Davood Zohoorian.
- PUBLICATIONS**
- ◇ **Fatemi, B.**, Kazemi, S.M., and El Asri, L. "SLAPS: Self-Supervision Improves Structure Learning for Graph Neural Networks", Submitted to ICLR 2021.
 - ◇ **Fatemi, B.**, Taslakian, P., Vázquez D., and Poole, D. "Knowledge Hypergraph Embedding Meets Relational Algebra", Submitted to AAAI 2021.
 - ◇ **Fatemi, B.**, Taslakian, P., Vázquez D., and Poole, D. "Knowledge Hypergraphs: Prediction Beyond Binary Relations", IJCAI 2020, (link).
 - ◇ **Fatemi, B.**, Ravanbakhsh, S., Poole, D. "Improved Knowledge Graph Embedding using Background Taxnomic Information", AAAI 2019, (link).
 - ◇ **Fatemi, B.**, Kazemi, S.M., Poole, D. "Record Linkage to Match Customer Names: A Probabilistic Approach", ICML Workshop on StarAI, July 2018, (link) .
 - ◇ Ramanan, N., Kunapuli, G., Khot, T., **Fatemi, B.**, Kazemi, S. M., Poole, D., Kersting, K., Natarajan, S. "Structure Learning for Relational Logistic Regression: An Ensemble Approach", Knowledge Representation and Reasoning (KR-2018) (longer version link).
 - ◇ Kazemi, S.M., **Fatemi, B.**, Kim A., Peng Z., Roy Tora M., Zeng X., Dirks M, Poole, D. "Comparing Aggregators for Relational Probabilistic Models", UAI Workshop on StarAI, August 2017, (link).
 - ◇ **Fatemi, B.**, Kazemi, S.M., Poole, D. "A Learning Algorithm for Relational Logistic Regression: Preliminary Results", IJCAI Workshop on StarAI, July 2016, (link).
- TEACHING ASSISTANCE**
- ◇ Artificial Intelligence, Algorithm Design, Computer Architecture, Data Structures
- HONORS AND AWARDS**
- ◇ Awarded The **President's Academic Excellence Initiative PhD Award**, 2020, (link).

- ◇ Awarded The **Borealis AI**'s graduate fellowship, 2019, (link).
- ◇ Ranked top 5% in Google AI Open Images **Visual Relationship Track**, 2018.
- ◇ Awarded the **4-Year Fellowship** (UBC's Premier PhD Award), 26000 CAD per year, University of British Columbia, Vancouver, Canada, 2017 - 2021.
- ◇ Awarded the **Student Service Award**, University of British Columbia, Vancouver, Canada, 2017.
- ◇ Awarded the **UBC International Tuition Award**, 3200 CAD per year, University of British Columbia, Vancouver, Canada, 2015 - 2021.
- ◇ **Ranked 1st** in **Cumulative GPA** among all students in Software Engineering department, Amirkabir University of Technology.
- ◇ Awarded the **Best Student of the Year** title, Amirkabir University of Technology, 2013 - 2015.
- ◇ Ranked 11th in **19th National Olympiad in Computer Engineering**, Tehran, Iran, 2014.
- ◇ Ranked 22nd in International **Data Mining Cup (DMC)**, Berlin, Germany, 2014.

TECHNICAL SKILLS

- ◇ Python, PyTorch, TensorFlow, C/C++, Java, Ruby, MATLAB, Weka, JavaScript, HTML, SQL.

ORGANIZATIONAL ACTIVITIES

- ◇ **Women in Machine Learning (WiML) workshop co-organizer:** NeurIPS 2019, Vancouver.
- ◇ **StarAI reading group Organizer:** Computer Science Department, UBC, 2017 - 2018.
- ◇ **Comittee member**, at Focus of Women in CS: 2015 - present.
- ◇ **Program Facilitator**, at GIRLsmart4tech: 2017 - present.
- ◇ **Mentor**, at Girls Learning Code: 2017 - present.

PROFESSIONAL SERVICE

- ◇ **Reviewer:** ICLR 2021, AAAI 2021, GRL 2020, Neurocomputing (Journal).