

Bahare Fatemi

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- EDUCATION**
- ◇ **Ph.D. in Computer Science**, University of British Columbia, 2017 - present,
Research Area: Relational Reasoning, Graph Representation Learning.
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 Facebook AI Research:** June 2021 - September 2021, Research on recommender systems for inverse cooking with graphs, **Supervisor:** Adriana Romero-Soriano.
 - ◇ **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 ICML 2021.
 - ◇ **Fatemi, B.**, Taslakian, P., Vázquez D., and Poole, D. "Knowledge Hypergraph Embedding Meets Relational Algebra", Submitted to ICML 2021.
 - ◇ **Fatemi, B.**, Taslakian, P., Vázquez D., and Poole, D. "Knowledge Hypergraphs: Prediction Beyond Binary Relations", IJCAI 2020, (link).
 - ◇ **Fatemi, B.**, Taslakian, P., Vázquez D., and Poole, D. "Knowledge Hypergraphs: Extending Knowledge Graphs Beyond Binary Relations", ECML Workshop on KGRL New Trends, September 2019.
 - ◇ **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	<ul style="list-style-type: none"> ◇ Artificial Intelligence, Algorithm Design, Computer Architecture, Data Structures
HONORS AND AWARDS	<ul style="list-style-type: none"> ◇ 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	<ul style="list-style-type: none"> ◇ Python, PyTorch, TensorFlow, C/C++, Java, Ruby, MATLAB, Weka, JavaScript, HTML, SQL.
ORGANIZATIONAL ACTIVITIES	<ul style="list-style-type: none"> ◇ 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	<ul style="list-style-type: none"> ◇ Reviewer: ICLR 2021, AAAI 2021, GRL 2020, Neurocomputing (Journal).
TALKS	<ul style="list-style-type: none"> ◇ Feb 2021, Knowledge Graphs and Beyond Binary Relations, UBC, Vancouver. ◇ Dec 2020, Knowledge Hypergraphs: Prediction Beyond Binary Relations, Facebook AI Research, Montreal. ◇ June 2019, Extending Knowledge Graphs Beyond Binary Relations, Element AI, Montreal.