

# FATEMEH NARGESIAN

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## RESEARCH INTERESTS

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Data curation, with a focus on dataset search and summarization, feature engineering for learning algorithms and data cleaning of datasets with missing values.

## EDUCATION

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### University of Toronto

PhD Candidate, Computer Science, 2018 (expected)  
Advisor: Renée J. Miller

### University of Ottawa

MSc, Computer Science, 2010

### Sharif University of Technology

MSc, Artificial Intelligence, 2007

### Shahid Beheshti University

BSc, Computer Engineering, 2004

## WORK EXPERIENCE

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### IBM T. J. Watson Research Center

Research Intern at Automated Machine Learning Group, 7/2016-11/2016

### IBM T. J. Watson Research Center

Research Intern at Stream Analytics Group, 8/2014-11/2014

### McGill Univeristy

Research Assistant at Clinical Informatics Research Group, 1/2011-9/2011

## TEACHING EXPERIENCE

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### Sessional instructor, University of Toronto

Introduction to Databases, Fall 2015

### Guest lecturer, University of Toronto

Operating Systems, Winter 2016

### Teaching assistant, University of Toronto

Operating Systems, 2013-2017

Database System Technology, Fall 2012

Introduction to Databases, 2012-2018

## PUBLICATIONS

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**Making Open Data Transparent: Data Discovery on Open Data.**

R. J. Miller, F. Nargesian, E. Zhu, Christina Christodoulakis, K. Q. Pu, Periklis Andritsos. To appear in the IEEE Data Engineering Bulletin, 2018.

**Table Union Search on Open Data.**

F. Nargesian, E. Zhu, K. Q. Pu, R. J. Miller. In Proceedings of the VLDB Endowment, (PVLDB) 11(7): 813-825, 2018.

**Dataset Evolver: An Interactive Feature Engineering Notebook.**

F. Nargesian, U. Khurana, H. Samulowitz, D. S. Turaga, T. Pedapati. In Proceedings of the Conference on Artificial Intelligence (AAAI), 2018. Demonstration.

**Interactive Navigation of Open Data Linkages.** (Best Demo Award)

E. Zhu, K. Q. Pu, F. Nargesian, R. J. Miller. In Proceedings of the VLDB Endowment (VLDB), 2017. Demonstration.

**Learning Feature Engineering for Classification.**

F. Nargesian, H. Samulowitz, U. Khurana, E. B. Khalil, D. S. Turaga. In Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 2017.

**Automating Feature Engineering.**

U. Khurana, F. Nargesian, H. Samulowitz, D. S. Turaga, E. B. Khalil. Artificial Intelligence for Data Science Workshop, NIPS, 2016.

**LSH Ensemble: Internet-Scale Domain Search.**

E. Zhu, F. Nargesian, K. Q. Pu, R. J. Miller. In Proceedings of the VLDB Endowment, (PVLDB) 9(12): 1185-1196, 2016.

**LinkedCT Live: Platform for Online Curation of Clinical Trials Data.**

O. Hassanzadeh, R. J. Miller, F. Nargesian, E. Zhu. In International Semantic Web Conference ISWC, 2015. Demonstration.

**SOFIA: An Analytics Recommendation System.**

F. Nargesian, A. Biem, P. Jain, S. Parthasarathy, D. S. Turaga. In International Semantic Web Conference (ISWC), 2015. Demonstration.

**Data-driven Recommendations for Exploratory Query Formulation.**

F. Nargesian. SIGMOD PhD Symposium: 31-35, 2014.

**Managing and Mapping Data Lineage for Business Intelligence and Analytics Applications in Health Care.**

M. Azarm, F. Nargesian, L. Peyton, i-Society: 120-126, 2011.

**Tool Support and Data Management for Business Analytics Applications in Healthcare.**

M. Azarm, F. Nargesian, L. Peyton, International Journal for Infonomics (IJI) 4(4): 484-493, 2011.

**LHTNDT: Learn HTN Method Preconditions using Decision Tree.**

F. Nargesian, G. Ghassem-Sani, ICINCO-ICSO: 60-65, 2008.

**Center of Confusion Estimation for Out-of-Focus Images Based on Bispectrum.**

F. Nargesian, A. A. Darabi, M. Jamzad, IEEE ICCIMA (3): 501-506, 2007.

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**TECHNICAL SKILLS**

**Programming Languages:** Golang, Python, C, Spark, Scala

**Database Systems:** SQLite, PostgreSQL

**Math/Statistics Packages:** Matlab

## HONORS AND AWARDS

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**WiML-17 Travel Grant** (2017)

**Best Demo Award** (2017) - 43th International Conference on Very Large Data Bases (VLDB)

**IJCAI-17 Travel Grant** (2017)

**BELL Scholarship** (2015-2017) - University of Toronto

**Best Poster Award** (2010) - CASCON, Toronto, Canada

**International Francophone scholarship** (2008-2011) - University of Ottawa

## ACADEMIC SERVICE

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### **Adhoc Reviewer**

34th IEEE International Conference on Data Engineering (ICDE), 2018

11th International Conference on Advances in Semantic Processing (SEMAPRO), 2017-2018

19th International Conference on Extending Database Technology (EDBT), 2016

41st International Conference on Very Large Data Bases (VLDB), 2015

26th Conference on Artificial Intelligence (AAAI), 2012