

# ZAHRA SHAKERI HOSSEIN ABAD

zahra\_shakeri@hms.harvard.edu

Postdoctoral Fellow, Department of Biomedical Informatics, Harvard Medical School  
10 Shattuck Street, Boston, MA 02115, USA

## RESEARCH INTERESTS

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**Health Data Science:** Health Informatics, Health Data Visualization, Digital Population Health, Machine Learning, Artificial Intelligence, Natural Language Processing, Digital Health, Social Media Analysis, mHealth, Aging

**Software Engineering & HCI:** Data-driven Decision Making, Software Analytics Storytelling, Information Visualization, Interactive Surfaces, Visual Analytics

## EDUCATION

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**Harvard Medical School, USA**

*July 2021-Present*

Postdoctoral Fellow, Health Informatics and Visualization  
Supervisor: Nils Gehlenborg

**University of Calgary, Canada**

*November 2018-July 2021*

Postdoctoral Associate, Health Informatics  
Supervisor: Joon Lee

**MIT Institute for Data, Systems, and Society (IDSS), USA**

*September 2018*

*[Deferred]*

Postdoctoral Associate, Machine Learning and Data Science  
Supervisor: Karene Chu

**University of Calgary, Canada**

*2013- 2018*

PhD, Computer Science

Thesis: Managing Multitasking in Software Development Tasks Using Visual Analytics and Machine Learning

Supervisor: Ken Barker

**Sharif University of Technology, Iran**

*2008- 2011*

MSc, Software Engineering

Thesis: Towards Tool Support for Situational Engineering of Agile Methodologies

Supervisor: Raman Ramsin

**Amirkabir University of Technology, Iran**

*2003- 2007*

BSc, Software Engineering

Thesis: Using FOAF Profiles to Improve Bookmarking in Social Networks

Supervisor: Mohammad Boroujerdi

## PUBLICATIONS

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### Peer-Reviewed Conferences and Journals

1. **Zahra Shakeri Hossein Abad**, Mohammad Noaeen, Adrienne Kline, Madeena Sultana, Filipe Lucini, Majed Al-jefri, Joon Lee. Digital public health surveillance: a systematic scoping review. *Nature Digit Medicine* [IF: 11.66]. 4(41):1-13, 2021.
  2. **Zahra Shakeri Hossein Abad**, David Maslove, Joon Lee, Predicting Discharge Destination of Critically Ill Patients Using Machine Learning. *IEEE Journal of Biomedical and Health Informatics-J-BHI* [IF: 5.77], 25(3):827-837, 2021.
  3. **Zahra Shakeri Hossein Abad**, Wendy Thompson, Gregory P Butler, Joon Lee. Crowdsourcing for machine learning in public health surveillance: lessons learned from Amazon Mechanical Turk. *Journal of Medical Internet Research* [Revision #2, IF: 5.43], February 2021.
  4. **Zahra Shakeri Hossein Abad**, Wendy Thompson, Gregory P Butler, Joon Lee. Physical activity, sedentary behaviour, and sleep on Twitter: A labelled dataset for public health research. *Journal of Medical Internet Research* [Revision #1, IF: 5.43], March 2021.
  5. **Zahra Shakeri Hossein Abad**, Wendy Thompson, Gregory P Butler, Joon Lee. Digital surveillance of physical activity, sedentary behaviour, and sleep using transfer learning, spatiotemporal, and demographic analysis. *Nature Digital Medicine* [Submitted, IF: 11.66], 2021.
- Zahra Shakeri Hossein Abad**, and Joon Lee. Detecting Uncertainty of Mortality Prediction Using Confident Learning. The 44<sup>th</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society, In press, 2021.
6. Adrienne Kline, Theresa Kline, **Zahra Shakeri Hossein Abad**, and Joon Lee, Using Item Response Theory for Explainable Machine Learning in Predicting Mortality in the Intensive Care Unit: Case-Based Approach. *Journal of Medical Internet Research*, 22, no. 9(2020):e20268, *Journal of Medical Internet Research* [IF: 5.43] 2020.
  7. **Zahra Shakeri Hossein Abad**, Adrienne Kline, Joon Lee, Evaluation of Machine Learning-based Patient Outcome Prediction Using Patient-specific Difficulty and Discrimination Indices. The 43<sup>rd</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2020.
  8. Adrienne Kline, Theresa Kline, **Zahra Shakeri Hossein Abad**, Joon Lee, Novel Feature Selection for Artificial Intelligence Using Item Response Theory for Mortality Prediction. The 43<sup>rd</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2020.

9. Munima Jahan, **Zahra Shakeri Hossein Abad**, and Behrouz Far, Detecting Emergent Behavior in Scenario-Based Specifications using a Probabilistic Model. IEEE Tenth International Model-Driven Requirements Engineering (MoDRE). IEEE, 2020.
10. **Zahra Shakeri Hossein Abad**, Vincenzo Gervasi, and Didar Zowghi, Supporting Analysts by Dynamic Extraction and Classification of Requirements-Related Knowledge. In proceedings of the 41<sup>st</sup> ACM/IEEE International Conference on Software Engineering (ICSE'19, Technical Track), 2019 [Acceptance Rate: 20%].
11. **Zahra Shakeri Hossein Abad**, Muneera Bano, and Didar Zowghi, Zowghi, How much Authenticity can be achieved in Software Engineering Project Based courses? In proceedings of the 41<sup>st</sup> ACM/IEEE International Conference on Software Engineering (ICSE'19, SE Education Track), 2019 [Acceptance Rate: 27%].
12. **Zahra Shakeri Hossein Abad**, Munib Rahman, Abdullah Cheema, Vincenzo Gervasi, Didar Zowghi, and Ken Barker, Dynamic Visual Analytics for Elicitation Meetings with ELICA. Accepted to the 26<sup>th</sup> IEEE International Conference on Requirements Engineering, 2018 [**Awarded as the Best Demo/Tool**].
13. **Zahra Shakeri Hossein Abad**, Vincenzo Gervasi, Didar Zowghi, and Ken Barker, ELICA: A Requirements Elicitation Aid Tool. Accepted to the 26<sup>th</sup> IEEE International Conference on Requirements Engineering Workshops (REW18), 2018.
14. **Zahra Shakeri Hossein Abad**, Vincenzo Gervasi, Didar Zowghi, and Ken Barker, Supporting Analysts by Dynamic Extraction and Classification of Requirements-relevant Information. Submitted to the 26<sup>th</sup> IEEE International Conference on Requirements Engineering, 2018.
15. **Zahra Shakeri Hossein Abad**, Mohammad Noaeen, Didar Zowghi, Behrouz Far, and Ken Barker, Two Sides of the Same Coin: Software Developers' Perceptions of Task Switching and Interruption, In proceedings of the 22<sup>nd</sup> International Conference on Evaluation and Assessment in Software Engineering, 2018 [Acceptance Rate: 18%].
16. **Zahra Shakeri Hossein Abad**, Oliver Karras, Kurt Schneider, Ken Barker, Mike Bauer, Task Interruption in Software Development Projects - What Makes some Interruptions More Disruptive than Others?, In proceedings of the 22<sup>nd</sup> International Conference on Evaluation and Assessment in Software Engineering, 2018 [Acceptance Rate: 18%].
17. **Zahra Shakeri Hossein Abad**, Guenther Ruhe, and Mike Bauer, Task Interruptions in Requirements Engineering: Reality versus Perceptions. In proceeding of the 25<sup>th</sup> IEEE International Conference on Requirements Engineering (RE'17), 2017 [Acceptance Rate: 20%].
18. **Zahra Shakeri Hossein Abad**, Alex Shymka, Jenny Le, Noor Hammad, and

- Guenther Ruhe, A Visual Narrative Path From Switching to Resuming a Requirements Engineering Task. In proceeding of the 25<sup>th</sup> IEEE International Conference on Requirements Engineering (RE'17), 2017 [Acceptance Rate: 30%].
19. **Zahra Shakeri Hossein Abad**, Oliver Karras, Parisa Ghazi, Martin Glinz, Guenther Ruhe, and Kurt Schneider, What Works Better? A Study of Classifying Requirements. Conditionally accepted to the 25<sup>th</sup> IEEE International Conference on Requirements Engineering (RE'17), 2017 [Acceptance Rate: 30%].
  20. **Zahra Shakeri Hossein Abad**, Guenther Ruhe, and Mike Bauer, Task Interruptions in Service-Oriented Software Development Projects: An Exploratory Case Study. In Proceedings of the 39th International Conference on Software Engineering Workshops (SERIP'17), 2017.
  21. **Zahra Shakeri Hossein Abad**, Mohammad Noaeen, and Guenther Ruhe, Requirements Engineering Visualization: A Systematic Literature Review. The 24<sup>th</sup> IEEE International Conference on Requirements Engineering (RE'16). IEEE, Beijing, China, September 2016 [Acceptance Rate: 27%].
  22. **Zahra Shakeri Hossein Abad**, Alex Shymka, Susant Pant, Ashley Currie, and Guenther Ruhe, What Are Practitioners Asking About Requirements Engineering? An Exploratory Analysis of Social Q&A Sites, 9th International Workshop on Software Product Management (IWSPM 2016), September 2016.
  23. **Zahra Shakeri Hossein Abad**, Reza Karimpour, Trong Tan Ho, S. M. Didar Al-Alam, Guenther Ruhe, Edward Tse, Kevin Barabash and Ian Hargreaves. Understanding the Impact of Technical Debt in Coding and Testing: An Explorative Case Study, SER&IP 2016 (ICSE 2016), USA, 2016.
  24. **Zahra Shakeri Hossein Abad**, Mohammad Noaeen, Behrouz Far, and Guenther Ruhe, What Do Practitioners Say about Big Data? An Empirical Investigation of Stack Overflow, BIDMA, 2016.
  25. Mahshid Marbouti, Rahul Bhaskar, **Zahra Shakeri Hossein Abad**, Craig Anslow, Frank Maurer, and Leland Jackson. Designing Geovisual Analytics Application for Exploring Hydrological Data. BIDMA 2016, Canada, 2016.
  26. **Zahra Shakeri Hossein Abad** and Guenther Ruhe. "Using Real Options to Manage Technical Debt in Requirements Engineering". The 23<sup>rd</sup> IEEE International Conference on Requirements Engineering (RE), 2015.
  27. **Zahra Shakeri Hossein Abad**, Craig Anslow, and Frank Maurer. Multi-Surface Interactions with Geospatial Data: A Systematic Review. In *Proceedings of the ACM Conference on Interactive Tabletops and Surfaces (ITS)*, 2014.
  28. Theodore D. Hellmann, Apoorve Chokshi, **Zahra Shakeri Hossein Abad**, Sydney Pratte, and Frank Maurer. Agile Testing: A Systematic Mapping Across Three

- Conferences: Understanding Agile Testing in the XP/Agile Universe, Agile, and XP Conferences. *In Proceedings of the International Conference on Agile Methods in Software Development (Agile)*, 2013.
29. **Zahra Shakeri Hossein Abad**, Anahita Alipour, and Raman Ramsin. Enhancing Tool Support for Situational Engineering of Agile Methodologies in Eclipse, *In Proceedings of Software Engineering Research, Management and Applications (SERA)*, R. Lee (Ed.), SCI 430, Springer, 2012.
  30. **Zahra Shakeri Hossein Abad**, Mahsa Hasani Sadi, and Raman Ramsin. “Towards Tool Support for Situational Engineering of Agile Methodologies”, *In Proceedings of the IEEE International Asia-Pacific Software Engineering Conference (APSEC)*, 2010.

#### Peer Reviewed Workshops and Posters

1. **Zahra Shakeri Hossein Abad**, Sania Moazzam, Christina Lo, Tianhan Lan, Elis Frroku, and Heejun Kim. “Loud and Interactive Paper Prototyping in Requirements Elicitation: What is it Good for?.” Accepted to the 26<sup>th</sup> IEEE International Conference on Requirements Engineering Workshops (REW18), 2018.
2. Mohammad Noaen, **Zahra Shakeri Hossein Abad**, and Behrouz Homayoun Far. “Let’s hear it from RETTA: A Requirements Elicitation Tool for Traffic management systems.” In proceeding of the 25<sup>th</sup> IEEE International Conference on Requirements Engineering (RE’17) [**Best Poster Award**].
3. **Zahra Shakeri Hossein Abad**, Shane DV Sims, Abdullah Cheema, Montasir B. Nasir, and Payal Harisinghani. “Learn More, Pay Less! Lessons Learned from Applying the Wizard-of-Oz Technique for Exploring Mobile App Requirements.” In 2017 IEEE 25<sup>th</sup> International Requirements Engineering Conference Workshops (REW), pp. 132-138. IEEE, 2017.
4. Parisa Ghazi, **Zahra Shakeri Hossein Abad**, and Martin Glinz, Choosing Requirements for Experimentation with User Interfaces of Requirements Modeling Tools, In proceeding of the 25<sup>th</sup> IEEE International Conference on Requirements Engineering (RE’17) [**Second Best Poster Award**].
5. **Zahra Shakeri Hossein Abad**, Reza Karimpour, Trong Tan Ho, S. M. Didar Al-Alam, and Guenther Ruhe. Understanding the Impact of Technical Debt in Coding and Testing: An Explorative Case Study, CPSCID 2015, Calgary, Canada, 2015. [**Selected as first place in CPSCID 2015**]
6. **Zahra Shakeri Hossein Abad**, and Guenther Ruhe. Using Real Options to Improve Requirement Debt Decisions Under Uncertainty: A Visual Analytics Approach, CPSCID 2015, Calgary, Canada, 2015.

7. Rahul Kamal Bhaskar, Julia Paredes, **Zahra Shakeri Hossein Abad**, Zahra Sahaf, Haleh Alemasoom, and Craig Anslow. VACI: Towards Visual Analytics for Criminal Investigation. *In Proceedings of the IEEE Visual Analytics Science and Technology (VAST) Challenge*, Paris, France, 2014.
8. Zahra Sahaf, Haleh Alemasoom, Rahul Kamal Bhaskar, Julia Paredes, **Zahra Shakeri Hossein Abad**, and Craig Anslow. TrackVis: A Visualization Tool for Analyzing Movement and Tracking Data of Criminal Activities. *In Proceedings of the IEEE Visual Analytics Science and Technology (VAST) Challenge*, Paris, France, 2014.
9. **Zahra Shakeri Hossein Abad**, Rahul Kamal Bhaskar, Mahshid Marbouti, Leland Jackson, and Frank Maurer. Water Management System: A Visual Analytics Approach, CPSCID 2014, Calgary, Canada, 2014.

### Theses and Technical Reports

1. **Zahra Shakeri Hossein Abad**. *Managing Multitasking in Software Development Tasks Using Visual Analytics and Machine Learning*, Department of Computer Science, University of Calgary, 2018.
2. Mahshid Marbouti, Rahul Bhaskar, **Zahra Shakeri Hossein Abad**, Craig Anslow, Frank Maurer, and Leland Jackson. "Designing Geovisual Analytics Application for Exploring Hydrological Data." Technical Report, TR-2015-1073-06, University of Calgary, 2015.
3. **Zahra Shakeri Hossein Abad**. *Towards Tool Support for Situational Engineering of Agile Methodologies*, Department of Computer Engineering, Sharif University of Technology. Masters (MSc) Thesis, 2011.
4. **Zahra Shakeri Hossein Abad**. *Using FOAF Profiles to Improve Bookmarking in Social Networks*, Department of Computer Engineering, Polytechnic University of Tehran (AmirKabir), Bachelor Thesis, 2008.
5. **Zahra Shakeri Hossein Abad**, Mohamamd Borujerdi. *Using FOAF Profiles to Improve Social Bookmarking*. Semantic Web (SW) Lab, Technical Report SW-TR-12/2007, Department of Computer Engineering, AmirKabir University of Technology, 2007.

## TEACHING EXPERIENCES

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### Sessional Instructor

*Department of Community Health Sciences, University of Calgary*

- Data 624 Advanced Exploration and Visualization in Health

*Winter 2021*

I received a 7/7 overall evaluation on the USRI survey

*Department of Community Health Sciences, University of Calgary*

- Data 624 Advanced Exploration and Visualization in Health

*Winter 2020*

I received a 7/7 overall evaluation on the USRI survey

*Department of Electrical and Computer Engineering, University of Calgary*

- ENSF 645 Data Mining & Knowledge Discovery

*Spring 2019*

- ENSF 619.25 Machine Learning

*Winter 2019*

*Department of Mathematics and Computing, Mount Royal University*

- COMP2613 Introduction to Computability (13 students)

*Fall 2019*

I received a 5.8/6 overall evaluation on the USRI survey

- COMP2613 Introduction to Computability (13 students)

*Fall 2018*

I received a 5.9/6 overall evaluation on the USRI survey

- COMP 5304 Programming IV-Software Engineering

*Fall 2018*

I received a 5.6/6 overall evaluation on the USRI survey

*Department of Computer Science, University of Calgary*

- SENG300 Analysis and Design of Large-Scale Software (65 students)

*Spring 2018*

I received a 6.67/7 overall evaluation on the USRI survey (compare to department average: 5.7)

*Department of Mathematics and Computing, Mount Royal University*

- COMP2613 Introduction to Computability (24 students)

*Fall 2017*

I received a 5.6/6 overall evaluation on the USRI survey

*Department of Computer Science, University of Calgary*

- SENG301 Analysis and Design of Large-Scale Software (45 students)

*Spring 2017*

I received a 6.63/7 overall evaluation on the USRI survey (compare to department average: 5.9) - SENG301 Analysis and Design of Large-Scale Software (133 students)

*Winter 2016*

I received a 6.24/7 overall evaluation on the USRI survey (compare to department average: 5.81)

*Department of Computer Science, University of Abrar*

*Sep 2011- Jan 2013*

- SE401 Object Oriented Design

*Fall 2012*

- CS353 Introduction to Computability

*Winter 2012*

- SE203 Software Engineering

*Winter 2012*

- SE201 Discrete Mathematics for Computer Engineering Students *Fall 2011*
- CS252 English for Computer Science Students *Fall 2011*

### **Teaching Assistant**

*Department of Computer Science, University of Calgary* *Sep 2013- Present*

- CPSC313 Introduction to Computability (Evaluation result: 66/70) *Winter 2017*
- CPSC313 Introduction to Computability (Evaluation result: 67/70) *Fall 2016*
- CPSC313 Introduction to Computability (Evaluation result: 63/70) *Fall 2015*
- CPSC594 Software Engineering Project (Industrial Projects) *Winter 2015*
- CPSC594 Software Engineering Project (Industrial Projects) *Fall 2014*
- CPSC313 Introduction to Computability (Evaluation result: 62/70) *Winter 2014*
- SENG301 Design of Large-Scale Software (Evaluation result: 61/70) *Fall 2013*

*Department of Computer Engineering, Sharif University of Technology* *Sep 2009- Jan 2011*

- Software Development Methodologies *Fall 2011*
- Patterns in Software Engineering *Winter 2011*
- Software Development Methodologies *Fall 2010*

### **Learning Assistant**

*Department of Electrical and Computer Engineering, University of Calgary* *Sep 2015- Jan 2017*

- ENGG233 Computing for Engineers *Fall 2016*
- ENGG233 Computing for Engineers *Fall 2015*

### **Invited Talks and Tutorials**

- 2020 Women in Data Science 2020, WiDS'20 (Keynote Speaker), Calgary. *The Double-edged Sword of AI in Health Data Science.*
- 2019 Centre for Health Informatics, Cumming School of Medicine, University of Calgary. *Does better data beat better learning algorithms?*
- 2016 University of Calgary, Department of Computer Science. *Systematic Literature Review: Methods and Techniques.*

### **RESEARCH FUNDINGS**

- 
- 2020 Co-Investigator– The Costs and Benefits of Transitioning from ICD-10-CA to ICD-11 in Canada. The Canadian Institutes of Health Research (CIHR). PI: Dr. Catherine Ann Eastwood. \$283,051.
  - 2015 Canada Graduate Scholarship, NSERC. \$25,500.



## PROFESSIONAL EXPERIENCE

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### Research Scientist

Chata.ai Inc., Calgary

January 2018- May 2018

- Developed machine learning algorithms for efficiently classifying unstructured text, including information extraction, translation, and summarization.
- Applied visual analytics techniques to present the analytical results

### Research Assistant

University of Calgary and ARCURE Inc.

Aug 2015- Jan 2018

- Worked on a research project to understand the impact of delay and tasks interruptions in software development projects

University of Calgary and SMART Technologies

Aug 2014- Dec 2014

- Worked on a research project to understand the impact of technical debt in coding and testing

Department of Computer Science, University of Calgary

May 2013- Sep 2013

- Worked on Square Kilometre Array (SKA) Project to explore software engineering concepts in cloud computing

### Internship Experiences

Microsoft (Microsoft Dynamics CRM, Seattle, US)

Spring 2016

- Data Analysis and Visualization, Software Engineer

ITS (Integrated Tax System), Iran

Jan 2012- Sep 2012

- Supervisor and Software Engineer in ITS Pproject

ITRC (Education and Research Institute for ICT), Iran

Jul 2010- Sept 2012

- Software Engineer in developing an enterprise application

CPMIS Project, Sharif University of Technology, Iran

Jan 2011- Sept 2011

- Member of the Risk Management Team

### Software Developer

SKA (Square Kilometre Array) Project

May 2013- Sep 2013

Department of Computer Science and the Physics Department, University of Calgary

- Developed API for different cloud providers (Amazon Web Service, Windows Azure, HEROKU, Google App Engine, Google Computing Engine)

Water Management System (IBM Project)

Sep2013- Apr 2014

Department of Computer Science, University of Calgary

- Analyzed and visualized flood data to predict flood in Calgary

C4i (Multi-surface Environments for Emergency Response Planning)  
2014

May 2014- Sep

*Department of Computer Science, University of Calgary*

- Developed an emergency management system for operations centres involving visual analytics and big data within a multi-surface environment.

## **Supervision and Mentoring**

*Department of Computer Science, and Department of Electrical and Computer Engineering, University of Calgary* *2016-2019*

- Fauziya Shaikh [MSc]: Traffic Information Exploration from Twitter *Spring 2019*
- Jason Robert Kraft [MSc]: Producing Frames of Animation using a Convolutional Network for Filter Composition *Winter 2019*
- Payal Harisinghani [BSc]: The Application of NLP and Machine Learning Techniques to Explore Mobile App Requirements *Spring 2017*
- Montasir B Nasir [BSc]: The Application of NLP and Machine Learning Techniques to Explore Mobile App Requirements *Spring 2017*
- Abdullah Cheema [BSc]: The Application of NLP and Machine Learning Techniques to Explore Mobile App Requirements *Spring 2017*
- Shane Sims [BSc]: The Application of NLP and Machine Learning Techniques to Explore Mobile App Requirements *Spring 2017*
- Noor Hammed [BSc]: Interruption Analysis in Software Development Projects *Winter 2017*
- Jenny Le [BSc]: Interruption Analysis in Software Development Projects *Winter 2017*
- Alex Shymka [BSc]: Interruption Analysis in Software Development Projects *Winter 2017*
- James Raleigh [BSc]: Tasks Interruption Analysis in Software Development Projects *Fall 2016*
- Alex Shymka [BSc]: Designing and Developing a Requirements engineering Tool *Summer 2016*
- Susant Pant [BSc]: Visual Analytics for Requirements Engineering *Summer 2016*
- Ashley Currie [BSc]: Mining Software Repositories *Summer 2016*

## Administrative Responsibilities

*A member of the Limited-term Instructor Selection Hiring Committee* Summer 2016  
University of Calgary, Department of Computer Science

## Development Skills

<b>Programming Languages</b>	Python, R, C++, C#, Java
<b>Protocols &amp; APIs</b>	XML, REST
<b>Databases</b>	MySQL, Microsoft SQL, NoSQL, MongoDB
<b>Tools</b>	Tableau, PowerBI, SVN, Vim, Git, ArcGIS

## PROFESSIONAL SERVICE

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### Leadership Experiences

*Member of Organizing Team in Women in Data Science- WiDS'20* Sep 2019-March 2020  
University of Calgary

*IEEE Vice President Advertising* Apr 2016-Apr 2017  
University of Calgary, Southern Alberta Section, IEEE

*Graduate Coaching Facilitator in Student Success Centre (SSC)* Jan 2016-Sep 2017  
University of Calgary

*Vice President-Academic of Computer Science Graduate Students (CSGS)* Apr 2015-Apr 2016  
University of Calgary, Department of Computer Science (Volunteer)

*Member of the Women's Resource Centre (WRC)* Jan 2015-June 2015  
University of Calgary (Volunteer)  
- Peer helper in Events and Education Coordination Team and Male Allies

*Graduate Peer Coach in Student Success Centre (SSC)* Jan 2015-Apr 2017  
University of Calgary  
- Coaching graduate students at the University of Calgary to increase their accountability and help them stay on track to complete their degree.

*Vice President-External of Computer Science Graduate Students (CSGS)* Sep 2014-Apr 2015  
University of Calgary, Department of Computer Science (Volunteer)

*Facilitator in Student Success Centre (SSC)* Sep 2014-Apr 2017  
University of Calgary (Volunteer)  
- Facilitator of the boot camp writing sessions for graduate students, SSC, University of Calgary

### Technical Program Committees

- IEEE International Workshop on Crowd-Based Requirements Engineering (PC member) 2020
- IEEE Natural Language Processing for Requirements Engineering [NLP4RE] (PC member) 2019
- IEEE International Requirements Engineering Conference [RE] (PC member) 2019
- IEEE International Requirements Engineering Conference [RE] (PC member) 2018
- Journal of Systems and Software [JSS] (Reviewer) 2018
- Journal of Systems and Software [JSS] (Reviewer) 2017
- IEEE International Requirements Engineering Conference [RE] (Reviewer) 2017
- The Journal of Information and Software Technology [IST] (Reviewer) 2016
- The Asia-Pacific Software Engineering Conference [APSEC] (Reviewer) 2016
- IEEE LCN BIDMA (PC Member) 2016
- IEEE International Requirements Engineering Conference [RE] (Reviewer) 2016
- IEEE CS and ACM International Conference on Software Engineering [ICSE] 2015

### AWARDS, HONOURS

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- Libin Cardiovascular Institute of Alberta Postdoctoral Scholarships, University of Calgary *Fall 2020*
- Finalist for the first Postdoc Research Slam Award, the University of Calgary *Fall 2019*
- Cumming School of Medicine Postdoctoral Scholarships, University of Calgary *Winter 2019*
- Libin Cardiovascular Institute of Alberta Postdoctoral Scholarships, University of Calgary *Winter 2019*
- Nominated for the 2019 ACM Distinguished Doctoral Dissertation Award *September 2019*
- Excellence in Teaching Award, GSA, University of Calgary *April 2018*
- Nominated for the University of Calgary Teaching Award *Winter 2018*
- Nominated for the Internationalization Achievement Awards, University of Calgary *Fall 2017*
- Computer Science Department Research Award, University of Calgary *Fall 2016*
- Eyes High International Doctoral Scholarship, Fall 2016 *Fall 2016*
- Computer Science Department Research Award, University of Calgary *Winter 2016*
- Faculty of Graduate Studies Travel Award, University of Calgary *Fall 2015*
- Computer Science Department Research Award, University of Calgary *Fall 2015*
- Graduate Excellence Award, University of Calgary *Winter 2015*
- Computer Science Department Research Award, University of Calgary *2013-2014*
- Second Place in the Computer Science Department (MSc), Sharif University of Technology *2011*
- Ranked Top 1% (62<sup>nd</sup>/30,000) in the National University-Entrance Exam (MSc) *2008*

## CITIZENSHIP

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- Canadian Permanent Resident
- Iranian

## REFERENCES

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**Current Supervisor:** Dr. Nils Gehlenborg  
Associate Professor of of Biomedical Informatics  
Department of Biomedical Informatics  
Harvard Medical School, USA  
Phone: +1 (617) 432 1535  
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Dr. Ken Barker  
Professor of Computer Science  
Department of Computer Science  
University of Calgary, Canada  
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Dr. Tyler Williamson  
Assistant Professor of Biostatistics  
Community Health Sciences  
University of Calgary, Canada  
+1 (403) 210 6033  
Email: tyler.williamson@ucalgary.ca

Dr. Raman Ramsin  
Professor of Computer Science  
Department of Computer Engineering  
Sharif University of Technology, Iran  
Phone: (+9821) 66166620  
Email: ramsin@sharif.edu

Dr. Didar Zowghi  
Professor of Software Engineering  
Department of Computer Engineering  
University of Technology, Sydney  
Phone: (+61) 2 9514 1860  
Email: Didar.Zowghi@uts.edu.au

Dr. Joon Lee  
Associate Professor of Health Data Science  
Community Health Sciences  
University of Calgary, Canada  
Phone: +1 (403) 220 2968  
Email: joonwu.lee@ucalgary.ca

Dr. Behrouz Homayoun Far  
Professor of Electrical and Computer Engineering  
Department of software Engineering  
University of Calgary, Canada  
Phone: +1 (403) 210 5411  
Email: far@ucalgary.ca

Dr. Peter Hoyer  
Associate Professor of Computer Science  
Department of Computer Science  
University of Calgary, Canada  
Phone: +1 (403) 210 9468  
Email: hoyer@ucalgary.ca