ZAHRA SHAKERI HOSSEIN ABAD

+1 (403) · 926 · 3653 ⋄ zshakeri@ucalgary.ca
Postdoctoral Fellow, Department of Biomedical Informatics, Harvard Medical School
10 Shattuck Street, Boston, MA 02115, USA

RESEARCH INTERESTS

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
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

Harvard Medical School, US *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 *Fall 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

(Diploma) Physics and Mathematics Discipline *2002*

PUBLICATIONS

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 Partner Journals Digit Medicine. 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, 25(3):827-837, 2020 [Impact factor: 5.2].

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 #1], 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. Nature Scientific Data [Under Review], March 2021.

   Zahra Shakeri Hossein Abad, and Joon Lee. Detecting Uncertainty of Mortality Prediction Using Confident Learning. The 44^{th} Annual International Conference of the IEEE Engineering in Medicine and Biology Society [Under Review], 2021.

5. 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, 2020.

6. **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^{rd} Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2020.

7. 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^{rd} Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2020.

8. Adrienne Kline, Theresa Kline, **Zahra Shakeri Hossein Abad**, Joon Lee, Predicting Mortality in ICU Cases with Machine Learning: Incorporating Case Difficulty and Explainability Using Item Response Theory. Accepted to the Journal of Medical Internet Research.

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^{st} 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^{st} 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^{th} 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^{th} 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^{th} 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^{nd} 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^{nd} International Conference on Evaluation and Assessment in Software Engineering, 2018 [Acceptance Rate: 18%].

17. **Zahra Shakeri Hossein Abad**, Guenther Ruhe, and Mike Bauer, Task Inter-

ruptions in Requirements Engineering: Reality versus Perceptions. In proceeding of the 25^{th} 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^{th} 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^{th} 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), Argentina, 2017.

21. **Zahra Shakeri Hossein Abad**, Mohammad Noaeen, and Guenther Ruhe, Requirements Engineering Visualization: A Systematic Literature Review. The 24^{th} 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), Beijing, China, 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, Canada, 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^{rd} IEEE International Conference on Requirements Engineering (RE). IEEE, 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)*, Dresden, Germany, 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)*, Nashville, TN, 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)*, Sydney, Australia, 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^{th} IEEE International Conference on Requirements Engineering Workshops (REW18), 2018.

2. Mohammad Noaeen, **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^{th} 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^{th} 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^{th} 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

Sessional Instructor

Department of Community Health Sciences, University of Calgary
- Data 624 Advanced Exploration and Visualization in Health *Winter 2021*

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 Universal Student Ratings of Instructions 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 Universal Student Ratings of Instructions survey
- COMP2613 Introduction to Computability (13 students) *Fall 2018*

I received a 5.9/6 overall evaluation on the Universal Student Ratings of Instructions survey
- COMP 5304 Programming IV-Software Engineering *Fall 2018*

I received a 5.6/6 overall evaluation on the Universal Student Ratings of Instructions 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 Universal Student Ratings of Instructions 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 Universal Student Ratings of Instructions 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 Universal Student Ratings of Instructions 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 Universal Student Ratings of Instructions 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 Analysis and 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

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 ARCURVE 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) *May 2014- Sep 2014*
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*

Department of Computer Science, University of Abrar *2012-2013*

- Elham Kashef [BSc]: Cloud Computing for Software Engineering, *BSc Supervisor*
- Nazanin Shafaghi [BSc]: Security Concerns in Cloud Computing, *BSc Supervisor*

Administrative Responsibilities

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

Development Skills

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

PROFESSIONAL SERVICE

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] (Reviewer) *2015*

AWARDS, HONOURS

- 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, Department of Computer Science, 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^{nd}/30,000) in the National University-Entrance Exam (MSc) *2008*

CITIZENSHIP

- Canadian Permanent Resident
- Iranian

REFERENCES

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

Dr. Ken Barker
Professor of Computer Science
Department of Computer Science
University of Calgary, Canada
Phone: +1 (403) 220 8497
Email: kbarker@ucalgary.ca

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

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