

HOSSEIN FANI (he/him)

The School of Computer Science, Faculty of Science, University of Windsor, 5111 Lambton Tower,
401 Sunset Avenue, Windsor, Ontario, N9B3P4, Canada
hfani@windsor.ca
+1 519 2533000 x2999
+1 416 8305091
hfani.myweb.cs.uwindsor.ca → hosseinfani.github.io
github.com/hosseinfani
github.com/fani-lab

**EDUCATION**

- | | |
|--|-----------------------|
| 5. Post-doctorate , Ryerson University, Laboratory for Systems, Software and Semantics, Dr. Ebrahim Bagheri | Nov 2019 – June 2020 |
| 4. Doctorate , Computer Science, University of New Brunswick, Supervisors: Dr. Weichang Du, Dr. Ebrahim Bagheri | May 2014 – May 2020 |
| 3. Master , Computer Science, Amirkabir University of Technology, Supervisor: Dr. Mojtaba Mozzaffari | Sept 2006 – Jan 2009 |
| 2. Bachelor , Computer Science, Amirkabir University of Technology, Supervisor: Dr. Mohammad Ebrahim Shiri | Sept 2001 – Sept 2005 |
| 1. Diploma , Mathematics and Physics, Shahid Emami Ale Agha | July 2000 |

PROFESSIONAL EMPLOYMENT

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|---|------------------------|
| 6. Assistant Professor , School of Computer Science, Faculty of Science, University of Windsor, Canada, <i>Tenure Track</i> | July 2020 – Present |
| 5. Post-Doctoral Research Fellow , Engineering and Architectural Science, Ryerson University, Canada.
<i>Team Lead in NSERC Industrial Research Chair on Social Media Analytics</i> | Nov 2019 – June 2020 |
| 4. Research Assistant , Engineering and Architectural Science, Ryerson University, Canada, <i>Social Media Mining</i> | May 2014 – Oct 2019 |
| 3. Contract Lecturer , Engineering and Architectural Science, Ryerson University, Canada.
<i>COE848: Fundamentals of Data Engineering</i> | Jan 2019 – May 2019 |
| 2. Software Designer , Behsazan Mellat (Bank Mellat), Iran.
<i>Customer Management System, Customer Credit Check, RSA, DB2, Java</i> | May 2013 – April 2014 |
| 1. Software Developer & Configuration Manager , System Group, Iran.
<i>Human Resource Management System, Human Capital Management System, SQL Server, ASP.Net, C#</i> | July 2010 – March 2013 |

RESEARCH FUNDING

- | | | |
|---|--------------|-------------|
| 8. Graduate Growth Incentive Fund , Faculty of Science, University of Windsor, PI | CAD\$010,000 | 2022 – 2023 |
| 7. CFI-JELF , Computing Infrastructure for Deep Learning on Graph-Structured Data, PI, Competitive
<i>Ontario Research Fund (ORF), Pending Decision</i> | CAD\$075,001 | 2022 – 2022 |
| <i>John R. Evans Leaders Fund (JELF) Canada Foundation for Innovation (CFI), Conditionally Offered</i> | CAD\$075,001 | |
| <i>University of Windsor, Offered</i> | CAD\$051,925 | |
| 6. RTI , Computing Workstations for Deep Learning on Graph-Structured Data, PI, Competitive
<i>Research Tools and Instruments, NSERC</i> | CAD\$032,010 | 2022 – 2022 |
| 5. Alliance-Accelerate , Customer Feedback Analytics from Unsolicited Resources, PI, Competitive
<i>NSERC Alliance</i> | CAD\$090,000 | 2022 – 2025 |
| <i>Mitacs Accelerate</i> | CAD\$075,000 | |
| <i>Press'nXPress, Discrete Choice Inc. (https://pxp.ai/)</i> | CAD\$015,000 | |
| 4. Undergraduate Research Experience , PI, Competitive, <i>University of Windsor</i> | CAD\$002,000 | 2022 – 2022 |
| 3. Discovery Grants Program , PI, Competitive, <i>NSERC</i> | CAD\$145,000 | 2021 – 2026 |
| 2. Discovery Launch Supplement , PI, Competitive, <i>NSERC</i> | CAD\$012,500 | 2021 – 2022 |
| 1. Startup Research Grant , Tenure Track Assistant Professor, <i>University of Windsor</i> | CAD\$065,000 | 2020 – 2025 |

INTELLECTUAL PROPERTY

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| 6. Bagheri, Fani , Zarrinkalam; System and Method for Temporal Identification of Latent Communities Using Electronic Content.
<i>Filed Sept 2016, US10,885,131. Issued.</i> | 2021 |
| 5. Hui, Daws, Bagheri, Zarrinkalam, Fani , Paydar; A System and Method for Detecting a Protective Product on the Screen of Electronic Devices. <i>PCT/CA2020/051413, WO2021077219A1</i> | 2020 |
| 4. Hui, Daws, Bagheri, Zarrinkalam, Fani , Paydar; Detecting the Presence or Absence of a Protective Case on an Electronic Device. <i>PCT/CA2020/051401, WO2021072557A1</i> | 2020 |
| 3. Hui, Bagheri, Zarrinkalam, Paydar, Fani , Daws; Method and System for Detecting Presence of a Protective Case on a Portable Electronic Device During Drop Impact. <i>PCT/CA2019/051590, WO2020093166A1</i> | 2019 |
| 2. Fani , Zarrinkalam, Bagheri, Hui; A System and Method for Protection Plans and Warranty Data Analytics. <i>US Patent App. 15/734,135</i> | 2019 |
| 1. Bagheri, Fani , Zarrinkalam; System and Method for Temporal Identification of Latent Communities Using Electronic Content. <i>CA2941604A1</i> | 2016 |

PUBLICATIONS

Google h-index: 10

Doctoral Dissertation

Fani. Diachronically like-minded user community detection. University of New Brunswick, Fredericton, NB., Canada. 2020

Journal Articles

05. Falavarjani, Jovanovic, **Fani**, Ghorbani, Noorian, Bagheri. On The Causal Relation Between Real-World Activities and Emotional Expressions of Social Network Users. *Journal of the Association for Information Science and Technology (JASIST)* 72(6): 723–743. Wiley, *Impact Factor: 2.835, H-Index: 134* 2021
04. **Fani**, Jiang, Bagheri, Al-beidat, Du, Kargar. User Community Detection via Embedding of Social Network Structure and Temporal Content. *Information Processing & Management (IP&M)–Elsevier*, 57(2): 102056. *Impact Factor: 4.787, H-Index: 94* 2020
03. **Fani**, Bagheri, Zarrinkalam, Zhao, Du. Finding Diachronic Like-Minded Users. *Computational Intelligence (CI)*, 34(1): 124–144. Wiley, *Impact Factor: 1.196, H-Index: 49* 2018
02. Feng, Zarrinkalam, Bagheri, **Fani**, Al-Obeidat. Entity linking of Tweets Based on Dominant Entity Candidates. *Social Network Analysis and Mining (SNAM)–Springer*, 8(1): 46:1–46:16. *Impact Factor: 1.61, H-Index: 29* 2018
01. **Fani**, Bagheri. Community Detection in Social Networks. *Encyclopedia of Semantic Computing and Robotic Intelligence–World Scientific*. 1(1): 1630001:1—1630001:8. 2017

Conference Publications

20. Dashti, Samet, **Fani**. Effective Neural Team Formation via Negative Samples. *The 31st ACM International Conference on Information and Knowledge Management (CIKM)*, Atlanta, Georgia, USA, CORE Rank: A. 2022
19. Dashti, Saxena, Patel, **Fani**. OpeNTF: A Benchmark Library for Neural Team Formation. *The 31st ACM International Conference on Information and Knowledge Management (CIKM)*, Atlanta, Georgia, USA, CORE Rank: A. 2022
18. Ziaenejad, Samet, **Fani**. SEERa: A Framework for Community Prediction. *The 31st ACM International Conference on Information and Knowledge Management (CIKM)*, Atlanta, Georgia, USA, CORE Rank: A. 2022
17. Rad, Mitha, **Fani**, Kargar, Szlichta, Bagheri. PyTFL: A Python-based Neural Team Formation Toolkit. *The 30th ACM International Conference on Information and Knowledge Management (CIKM)*, Queensland, Australia, CORE Rank: A. 2021
16. **Fani**, Tamannae, Zarrinkalam, Samouh, Paydar, Bagheri. An Extensible Toolkit of Query Refinement Methods and Gold Standard Dataset Generation. *The 43rd European Conference on IR Research (ECIR)*, Lucca, Italy. CORE Rank: A. 2021
15. Tamannae, **Fani**, Zarrinkalam, Samouh, Paydar, Bagheri. ReQue: A Configurable Workflow and Dataset Collection for Query Refinement. *The 29th ACM International Conference on Information and Knowledge Management (CIKM)*, Virtual Event, Ireland, (3165–3172), CORE Rank: A. 2020
14. Rad, **Fani**, Kargar, Szlichta, Bagheri. Learning to Form Skill-based Teams of Experts. *The 29th ACM International Conference on Information and Knowledge Management (CIKM)*, Virtual Event, Ireland (2049–2052), CORE Rank: A. 2020
13. **Fani**, Bagheri, Du. Temporal Latent Space Modeling for Community Prediction. *The 42nd European Conference on IR Research (ECIR)*, Lisbon, Portugal (745–759), CORE Rank: A. 2020
12. **Fani**, Mirlohi, Hosseini, Herpers. Swim Stroke Analytic: Front Crawl Pulling Pose Classification. *The 2018 IEEE International Conference on Image Processing (ICIP)*, Athens, Greece, (4068–4072), CORE Rank: B. 2018
11. Khodabakhsh, **Fani**, Zarrinkalam, Bagheri. Predicting Personal Life Events from Streaming Social Content. *The 27th ACM International Conference on Information and Knowledge Management (CIKM)*, Turin, Italy (1751–1754), CORE Rank: A. 2018
10. Arabzadeh, **Fani**, Zarrinkalam, Navivala, Bagheri. Causal Dependencies for Future Interest Prediction on Twitter. *The 27th ACM International Conference on Information and Knowledge Management (CIKM)*, Turin, Italy (1511–1514), CORE Rank: A. 2018
09. **Fani**, Bashari, Zarrinkalam, Bagheri, Al-Obeidat. Stopword Detection for Streaming Content. *The 40th European Conference on IR Research (ECIR)*, Grenoble, France (737–743), CORE Rank: A. 2018
08. **Fani**, Bagheri, Du. Temporally Like-minded User Community Identification through Neural Embeddings. *The 26th ACM on Conference on Information and Knowledge Management (CIKM)*, Singapore, Singapore (577–586), CORE Rank: A. 2017
07. Zarrinkalam, **Fani**, Bagheri, Kahani. Predicting Users' Future Interests on Twitter. *The 39th European Conference on IR Research (ECIR)*, Aberdeen, United Kingdom (464–476), CORE Rank: A. 2017
06. **Fani**, Zarrinkalam, Bagheri, Du. Time-Sensitive Topic-Based Communities on Twitter. *The 29th Canadian Conference on Artificial Intelligence (Canadian AI)*, Victoria, Canada (192–204.) 2016
05. Zarrinkalam, **Fani**, Bagheri, Kahani. Inferring Implicit Topical Interests on Twitter. *The 38th European Conference on IR Research (ECIR)*, Padua, Italy (479–491), CORE Rank: A. 2016
04. **Fani**. Temporal Formation and Evolution of Online Communities. *The 9th ACM International Conference on Web Search and Data Mining (WSDM)*, San Francisco, United States (717), CORE Rank: A*. 2016
03. Zarrinkalam, **Fani**, Bagheri, Kahani, Du. Semantics-Enabled User Interest Detection from Twitter. *IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (WI-LAT)*, Singapore, Singapore (469–476), CORE Rank: B. 2015

02. Feng, **Fani**, Bagheri, Jovanovic. Lexical Semantic Relatedness for Twitter Analytics. *The 27th IEEE International Conference on Tools with Artificial Intelligence (ICTAI)*, Vietri sul Mare, Italy (202–209), CORE Rank: B. 2015

01. **Fani**, Bagheri. An Ontology for Describing Security Events. *The 27th International Conference on Software Engineering and Knowledge Engineering (SEKE)*, Pittsburgh, United States (455–460), CORE Rank: B. 2015

Technical Reports

01. Nguyen, **Fani**, Bagheri, Titericz. Bagging Model for Product Title Quality with Noise. *The 26th ACM International Conference on Information and Knowledge Management (CIKM AnalytiCup'17.)* 2017

Tutorials & Talks

03. Zarrinkalam, **Fani**, Bagheri. Tutorial on Extracting, Mining and Predicting Users' Interests from Social Networks. *The 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval*, CORE Rank: A*, Paris, France. 2019

02. Zarrinkalam, **Fani**, Bagheri. Tutorial on Social User Interest Mining: Methods and Applications. *The 25th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, CORE Rank: A*, Anchorage, AK, United States. 2019

01. Swim Stroke Analytic: Front Crawl Pulling Pose Classification. *A.I. Socratic Circles (#AISC)*, <https://aisc.ai.science/>, Toronto, Canada, <https://youtu.be/pxsZalBla6U> 2019

Conference Attended

08. The 43rd European Conference on Information Retrieval, Bloomberg, Amazon, Lucca, Tuscany, Italy, Online. 2021

07. The 42nd European Conference on Information Retrieval, Bloomberg, Google, Amazon, eBay, Lisbon, Portugal, Online. 2020

06. The 27th ACM International Conference on Information and Knowledge Management, ACM, SIGIR, Turin, Italy. 2018

05. The 26th ACM International Conference on Information and Knowledge Management, ACM, SIGIR, Singapore. 2017

04. The 29th Canadian Conference on Artificial Intelligence, CAIAC, Victoria, BC. 2016

03. The 9th ACM International Conference on Web Search and Data Mining, Adobe, Google, Microsoft, San Francisco, USA. 2016

02. International Conference on Tools with Artificial Intelligence, Vietri sul Mare, Italy. 2015

01. The 27th International Conference on Software Engineering and Knowledge Engineering, Pittsburgh, USA 2015

SUPERVISION

<http://github.com/fani-lab>

High Schooler

1. Qinfeng (Alice) Yu, Research Assistant, *NeuCG: Neural Computational Geometry* Summer 2022 – Fall 2022

Post-doctorate & Visiting Scholar

1. Mahdis Saeedi, Assistant Professor in Mathematics, Ershad Damavand, Iran, Visiting Scholar Jun 2022 – May 2023

Doctorate

2. Soroush Ziaeinejad, *User Community Prediction for Social Information Retrieval*, University of Windsor, PI Fall 2021 – Present

1. Zahra Taherikhonakdar, *Synergistic Balance of Social Context for Information Retrieval*, University of Windsor, PI Fall 2021 – Present

Master's

5. Roonak Moasses, *Bias in Team Formation Algorithms*, University of Windsor, PI Fall 2021 – Present

4. Yogeswar Lakshmi Narayanan, *Reinforcement Learning for Query Refinement*, University of Windsor, PI Fall 2021 – Present

3. Karan Saxena, *Geo-aware Team Formation*, University of Windsor, PI Winter 2021 – Present

2. Arman Dashti, *Time-sensitive Team Formation*, University of Windsor, PI Winter 2021 – Present

1. Muhammad Moeed Khalid, *Online Predatory Conversation Detection*, University of Windsor, co-PI Fall 2020 – Present

Undergraduate Research Assistant

4. Christine Wong, Outstanding Scholar, *SEERa: A Framework for Community Prediction* Fall 2022 – Winter 2023

3. Sharjeel Mustafa, Outstanding Scholar, *SEERa: A Framework for Community Prediction* Fall 2022 – Winter 2023

2. Gabriel Rueda, Outstanding Scholar, *Neural Machine Translation Metrics for Team Formation* Summer 2022 – Fall 2022

1. Dhvani Nileshkumar Patel, Research Assistant, *Neural Team Formation* Summer 2021 – Winter 2022

Bachelor's Honors

6. Brandon Klassen, *Personalized Query Refinement* Summer 2022 – Fall 2022

5. Charles Corro, Michele Catani, Daljeet Singh, *Neural Computational Geometry* Winter 2022 – Fall 2022

4. Emily Boice, Bryce Hughson, Mohammad Elias Khan, *Personalized Query Refinement* Fall 2021 – Winter 2022

3. Xiancheng Yan, Zixun Wang, Dongli Zhu, *Neural Machine Translation for Team Formation* Fall 2021 – Winter 2022

2. Lincoln Dube, Jalal Shabo, Matthew Vojvodin, An Le, *Topic Tracking in Online Social Networks* Winter 2021 – Fall 2021

1. Yang Wang, Jinhua Long, Ritu Ge, Juntao Ma, *Topic Tracking in Online Social Networks* Fall 2020 – Winter 2021

TEACHING

11. System Programming (The Unix Reloaded), COMP2560, University of Windsor, Canada Fall 2021

10. Natural Language Processing & Understanding (NLP for SNA), COMP8730, University of Windsor, Canada Winter 2021

09. Computer Architecture I: Digital Design (A Digital Odyssey), COMP2650, University of Windsor, Canada Fall 2020, Winter 2021

08. Fundamentals of Data Engineering (2019: A Data Odyssey), COE848, Ryerson University, Canada Winter 2019

07. Design and Analysis of Algorithms, Payame Noor University, Iran Winter 2014

06. Data Structure, Payame Noor University, Iran

05. Logical Circuits (Digital Design), Payame Noor University, Iran

04. Computer Architecture, Payame Noor University, Iran

03. Operating Systems, Payame Noor University, Iran

02. Software Engineering (Software Test), Payame Noor University, Iran

Winter 2009

AWARD

- 9. Student Pitch Prize**, University of New Brunswick, Canada, *AI-Powered Swim Stroke Analytics, 3rd Place, Growth Category* CAD\$500 March 2019
- 8. Travel Grant**, The 26th ACM International Conference on Information and Knowledge (CIKM), Singapore SGD\$2,000 Nov 2017
- 7. AnalytiCup Prize**, The 26th ACM International Conference on Information and Knowledge (CIKM), Singapore, *Product Title Quality Challenge, 2nd Place, Lazada Singapore, Participants: 169* SGD\$2,000 Nov 2017
- 6. Student Travel Award**, Faculty of Computer Science, University of New Brunswick, Canada, *The 26th ACM International Conference on Information and Knowledge (CIKM), Singapore* CAD\$500 Nov 2017
- 5. Student Travel Award**, The 29th Canadian Conference on Artificial Intelligence (AI2016), BC, Canada CAD\$500 June 2016
- 4. Student Travel Award**, Faculty of Computer Science, University of New Brunswick, Canada, *The 29th Canadian Conference on Artificial Intelligence (AI2016), BC, Canada* CAD\$800 June 2016
- 3. Student Travel Grant**, The 9th ACM International Conference on Web Search and Data Mining (WSDM'16), US US\$270 Feb 2016
- 2. Student Travel Award**, Faculty of Computer Science, University of New Brunswick, Canada, *The 27th International Conference on Tools with Artificial Intelligence (ICTAI'15), Italy* CAD\$1,000 Nov 2015
- 1. International Differential Fees Award**, Faculty of Computer Science, University of New Brunswick, Canada, *CAD\$4,212.00 for three years* CAD\$12,636 May 2014

SERVICE**Natural Sciences and Engineering Research Council of Canada (NSERC)**

2. External Reviewer for Discovery Grant Nov 2021 – Present
1. Invited Reviewer for Idea to Innovation (I2I) Oct 2021 – Present

University of Windsor

2. MSc Admission Committee, School of Computer Science, University of Windsor July 2021 – Present
1. Windsor University Faculty Association (WUFA) July 2020 – Present

Academic Society

2. Professional Member, Association for Computing Machinery (ACM) Sept 2019 – Present
1. Student Member, Association for Computing Machinery (ACM) Sept 2018 – Aug 2019

Session Chairs

3. The 44th ACM SIGIR Conference on Research and Development in Information Retrieval, CORE Rank: A* July 2021
2. The 29th ACM Conference on Information and Knowledge Management (CIKM), Resource Track, CORE Rank: A Oct 2021
1. IEEE International Conference on Tools with Artificial Intelligence (ICTAI), CORE Rank: B Nov 2015

Program Committee Member

13. European Conference on Information Retrieval (ECIR) Long & Short Paper Track, CORE Rank: A 2019 – 2023
12. ACM SIGIR Conference on Research and Development in Information Retrieval, Long & Short & Reproducibility Paper Track, CORE Rank: A* 2020 – 2022
11. ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Applied Data Science Track, CORE Rank: A* 2021 – 2022
10. ACM International Conference on Information and Knowledge Management (CIKM), Short & Resource Paper Track, CORE Rank: A 2020 – 2022
09. ACM International Conference on Web Search and Data Mining (WSDM), CORE Rank: A* 2021 – 2023
08. Empirical Methods in NLP (EMNLP), Computational Social Science and Social Media, Question Answering, Language Modeling, Machine Learning for NLP, and Interpretability, Interactivity & Analysis of Models for NLP Tracks, CORE Rank: A 2020 – 2022
07. Canadian Conference on Artificial Intelligence (Canadian AI) 2021 – 2022
06. The North American Chapter of the Association for Computational Linguistics (NAACL), CORE Rank: A 2021
05. International AAAI Conference on Web and Social Media (ICWSM), CORE Rank: A 2021 – 2022
04. ACM International Conference on Recommender Systems (RecSys) 2022
03. European Chapter of the Association for Computational Linguistics (EACL), CORE Rank: A 2021
02. Association for Computational Linguistics (ACL), CORE Rank: A* 2020
01. International Learning Analytics & Knowledge Conference (LAK), Full and Short Research Papers Track, CORE Rank: A 2016 – 2018

Review Duties

8. ACM Transactions on Information Systems (TOIS), Impact Factor: 7.1
7. Artificial Intelligence Review, Impact Factor: 5.747
6. Expert Systems with Applications, Impact Factor: 6.954
5. IEEE Access, Impact Factor: 4.098
4. IEEE Transactions on Computational Social Systems, Impact Factor: 3.29
3. Information Processing & Management (IP&M), Impact Factor: 7.7
2. Information Systems, Impact Factor: 2.466
1. Personal and Ubiquitous Computing, Springer Nature, Impact Factor: 2.0

HOBBY

Art: Cinema, Charcoal Ballpoint Pen Painting
Sport: Swimming, Cycling, Soccer, Wrestling