HOSSEIN FANI (he/him)
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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 Bagher	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

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

RESEARCH FUNDING

6. RTI, Computing Workstations for Deep Learning on Graph-Structured Data, PI, Competitive *Research Tools and Instruments, NSERC*	CAD$32,010	2022 – 2022
5. Alliance-Accelerate, Customer Feedback Analytics from Unsolicited Resources, PI, Competitive		2022 – 2025
NSERC Alliance	CAD$90,000	
Mitacs Accelerate	CAD$75,000	
Press'nXPress, Discrete Choice Inc. (https://pxp.ai/)	CAD$15,000	
4. Undergraduate Research Experience, PI, Competitive, *University of Windsor*	CAD$2,000	2022 – 2022
3. Discovery Grants Program, PI, Competitive, *NSERC*	CAD$145,000	2021 – 2026
2. Discovery Launch Supplement, PI, Competitive, *NSERC*	CAD$12,500	2021 – 2022
1. Startup Research Grant, Tenure Track Assistant Professor, *University of Windsor*	CAD$65,000	2020 – 2025

INTELLECTUAL PROPERTY

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

PUBLICATIONS   **Google h-index: 9**

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

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**, Tamannaee, 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. Tamannaee, **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–IAT), 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/pxzZalBla6U* 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_

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

2. Gabriel Rueda, Outstanding Scholar*, Neural Machine Translation Metrics for Team Formation*	Summer 2022 – Fall 2022
1. Dhwani 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
01. Information Store and Retrieval (File Structure), Islamic Azad University, Iran	Fall 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* CAD$1,000   Nov 2015
Conference on Tools with Artificial Intelligence (ICTAI'15), Italy

1. International Differential Fees Award, Faculty of Computer Science, University of New Brunswick, Canada, CAD$12,636   May 2014
CAD$4,212.00 for three years

_**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 – 2022
12. ACM SIGIR Conference on Research and Development in Information Retrieval, Long & Short & Reproducibility Paper 2020 – 2022
Track, CORE Rank: A*
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 2020 – 2022
Rank: A
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 2020 – 2022
Modeling, Machine Learning for NLP, and Interpretability, Interactivity & Analysis of Models for NLP Tracks, CORE Rank: A
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~~