HOSSEIN FANI (he/him)
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cs.uwindsor.ca/~hfani → hosseinfani.github.io
github.com/hosseinfani
github.com/fani-lab; fani-lab.github.io

EDUCATION

5. **Post–Doctorate**, Toronto Metropolitan University, Dr. E. Bagheri	Nov 2019 –	June 2020
4. **Doctorate**, Computer Science, University of New Brunswick, Supervisors: Dr. W. Du, Dr. E. Bagheri	May 2014 –	May 2020
3. **Master**, Computer Science, Amirkabir University of Technology, Supervisor: Dr. M. Mozzaffari	Sept 2006 –	Jan 2009
2. **Bachelor**, Computer Science, Amirkabir University of Technology, Supervisor: Dr. M. E. Shiri	Sept 2001 –	Sept 2005
1. **Diploma**, Mathematics and Physics, Shahid Emami Ale Agha		July 2000

PROFESSIONAL EMPLOYMENT

6. **Assistant Professor**, School of Computer Science, Faculty of Science, University of Windsor, Canada, *Tenure Track*	July 2020 –	Present
5. **Post–Doctoral Research Fellow**, Engineering and Architectural Science, Toronto Metropolitan University, Canada.	Nov 2019 –	June 2020

Team Lead in NSERC Industrial Research Chair on Social Media Analytics

4. **Research Assistant**, Engineering and Architectural Science, Toronto Metropolitan University, Canada, *Social Media*	May 2014 –	Oct 2019
3. **Contract Lecturer**, Engineering and Architectural Science, Toronto Metropolitan University, Canada.	Jan 2019 –	May 2019

COE848: Fundamentals of Data Engineering

2. **Software Designer**, Behsazan Mellat (Bank Mellat), Iran.	May 2013 –	April 2014

Customer Management System, Customer Credit Check, RSA, DB2, Java

1. **Software Developer & Configuration Manager**, System Group, Iran.	July 2010 –	Mar 2013

Human Resource Management System, Human Capital Management System, SQL Server, ASP.Net, C#

RESEARCH FUNDING

8. **Graduate Growth Incentive Fund**, PI, Faculty of Science, *University of Windsor*	CAD$010,000	2022 – 2023
7. **CFI-JELF**, Computing Infrastructure for Deep Learning on Graph-Structured Data, PI, Competitive		2022 – 2022
Ontario Research Fund (ORF), Pending Decision	CAD$075,001	
John R. Evans Leaders Fund (JELF) Canada Foundation for Innovation (CFI)	CAD$075,001	
University of Windsor	CAD$051,925	
6. **RTI**, Computing Workstations for Deep Learning on Graph-Structured Data, PI, Competitive	CAD$032,010	2022 – 2022
Research Tools and Instruments, NSERC		
5. **Alliance-Accelerate**, Customer Feedback Analytics from Unsolicited Resources, PI, Competitive		2022 – 2025
NSERC Alliance	CAD$090,000	
Mitacs Accelerate	CAD$045,000	
Press'nXPress, Discrete Choice Inc. (https://pxp.ai/)	CAD$045,000	
4. **Undergraduate Research Experience**, Learning to Form Time-aware Teams of Experts, PI, Competitive, *University of Windsor*	CAD$002,000	2022 – 2022
3. **Discovery Grants Program**, Time-aware Community-enhanced Social Information Retrieval, PI, Competitive, *NSERC*	CAD$145,000	2021 – 2026
2. **Discovery Launch Supplement**, Time-aware Community-enhanced Social Information Retrieval, PI, Competitive, *NSERC*	CAD$012,500	2021 – 2022
1. **Startup Research Grant**, Tenure Track Assistant Professor, *University of Windsor*	CAD$065,000	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.* **Granted.**	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, CN114616492A*	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, CN113302457A, EP3877728A4, US20220005341A1*	2019
2. **Fani**, Zarrinkalam, Bagheri, Hui; A System and Method for Protection Plans and Warranty Data Analytics. *PCT/CA2019/050767, WO2019227238A1, CA3102116A1, CN112534456A, EP3803754A4, US20210217093A1*	2018

1. Bagheri, **Fani***, Zarrinkalam*; System and Method for Temporal Identification of Latent Communities Using Electronic Content. *CA2941604A1* — 2016

Doctoral Dissertation

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

Journal Articles

06. Rad*, Fani, Bagheri, Kargar, Srivastava, Szlichta. A Variational Neural Architecture for Skill-based Team Formation. *Transactions on Information Systems (TOIS), (Revision Submitted), Impact Factor: 6.06, H–Index: 84* — 2022

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: 6.222, 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, (3908-3912), 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, (3913-3917), 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, (4762-4766), 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 (4716-4720), 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 (498-503). 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. **Fani**, 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**_____**https://fani-lab.github.io**_

High Schooler

1. Qinfeng (Alice) Yu, Research Assistant, *NeuCG: Neural Computational Geometry*	S2022 – W2023

Post–doctorate & Visiting Scholar

1. Mahdis Saeedi, Assistant Professor in Mathematics, Ershad Damavand, Iran, Visiting Scholar	Jun 2022 – May 2024

Doctorate

3. Kia Jahanbin, *Forecasting Cryptocurrency Prices via Social Sentiment Analysis,* University of Yazd, Iran, Co-PI	F2022 – Present
2. Soroush Ziaeinejad, *User Community Prediction for Social Information Retrieval*, University of Windsor, PI	F2021 – Present
1. Zahra Taherikhonakdar, *Synergistic Balance of Social Context for Information Retrieval*, University of Windsor, PI	F2021 – Present

Master's

10. Hamed Waezi, *Team Completion,* University of Windsor, PI	W2023 – Present
09. Reza Barzegar, *Interpretable Team Formation Algorithms,* University of Windsor, PI	W2023 – Present
08. Farinam Hemmati Zadeh, *Latent Aspect Detection in Product Reviews,* University of Windsor, PI	F2022 – Present
07. Hamed Loghmani, *Diversity-aware Team Formation,* University of Windsor, PI	F2022 – Present
06. Sara Salamati Taba, *Online Predatory Conversation Detection,* University of Windsor, PI	F2021 – F2021
05. Roonak Moasses, *Bias in Team Formation Algorithms*, University of Windsor, PI	F2021 – Present
04. Yogeswar Lakshmi Narayanan, *Reinforcement Learning for Query Refinement*, University of Windsor, PI	F2021 – Present
03. Karan Saxena, *Geo–aware Team Formation*, University of Windsor, PI	W2021 – Present
02. Arman Dashti, *Temporal Neural Team Formation with Negative Sampling*, **Governor's General Gold Medalist Nominee**, University of Windsor, PI	W2021 – W2023
01. Muhammad Moeed Khalid, *Online Predatory Conversation Detection*, University of Windsor, Co-PI	F2020 – W2023

Undergraduate Research Assistant

6. Ehsan Salimi, Research Assistant, *Online Predatory Conversation Detection*	F2022 – W2023
5. Bhavya Patel, Research Assistant, *ReQue: A Benchmark Workflow and Dataset Collection for Query Refinement*	F2022 – W2023
4. Christine Wong, Outstanding Scholar, *SEERa: A Framework for Community Prediction*	F2022 – W2023
3. Sharjeel Mustafa, Outstanding Scholar, *SEERa: A Framework for Community Prediction*	F2022 – W2023
2. Gabriel Rueda, Outstanding Scholar, *Neural Machine Translation Metrics for Team Formation*	S2022 – F2022
1. Dhwani Nileshkumar Patel, Research Assistant, *Neural Team Formation*	S2021 – W2022

Bachelor's Honors

6. Brandon Klassen, *Personalized Query Refinement*	S2022 – F2022

5. Charles Corro, Michele Catani, Daljeet Singh, *Neural Computational Geometry*		W2022 – F2022
4. Emily Boice, Bryce Hughson, Mohammad Elias Khan, *Personalized Query Refinement*		F2021 – W2022
3. Xiancheng Yan, Zixun Wang, Dongli Zhu, *Neural Machine Translation for Team Formation*		F2021 – W2022
2. Lincoln Dube, Jalal Shabo, Matthew Vojvodin, An Le, *Topic Tracking in Online Social Networks*		W2021 – F2021
1. Yang Wang, Jinhua Long, Ritu Ge, Juntao Ma, *Topic Tracking in Online Social Networks*		F2020 – W2021

TEACHING

11. System Programming (The Unix Reloaded), COMP2560, University of Windsor, Canada	F2021, F2022
10. Natural Language Processing & Understanding (NLP for SNA), COMP8730, University of Windsor, Canada	W2021, W2022
09. Computer Architecture I: Digital Design (A Digital Odyssey), COMP2650, University of Windsor, Canada	F2020, W2021
08. Fundamentals of Data Engineering (2019: A Data Odyssey), COE848, , Toronto Metropolitan University, Canada	W2019
07. Design and Analysis of Algorithms, Payame Noor University, Iran	W2014
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	W2009
01. Information Store and Retrieval (File Structure), Islamic Azad University, Iran	F2009

AWARD

9. Student Pitch Prize, University of New Brunswick, Canada, *AI–Powered Swim Stroke Analytics, 3rd Place, Growth Category*	CAD$500	Mar 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. Reviewer for Discovery Grant	Nov 2021 – Present
1. Reviewer for Idea to Innovation (I2I)	Oct 2021 – Present

University of Windsor

9. MSc Admission Committee, School of Computer Science, University of Windsor	July 2021 – Present
8. Windsor University Faculty Association (WUFA)	July 2020 – Present
7. Internal Reader, MSc Thesis Committee, Mrulay Mistry	F2022 – Present
6. Internal Reader, MSc Thesis Committee, Priyanka Anilkumar Motwani	2021
5. Chair, MSc Thesis Committee, Shanu Kumar	2023
4. Chair, MSc Thesis Committee, Ann Reba Thomas Alexander	2022
3. Chair, MSc Thesis Committee, Yash Trivedi	2022
2. Chair, MSc Thesis Committee, Steffie Maria Stephen	2021
1. Chair, MSc Thesis Committee, Saiteja Danda	2021

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

14. Association for Computational Linguistics (ACL), CORE Rank: A*	2020 – 2023
13. International Joint Conference on Artificial Intelligence (IJCAI), CORE Rank: A	2023
12. European Conference on Information Retrieval (ECIR) Long & Short Paper Track, CORE Rank: A	2019 – 2023

11. ACM SIGIR Conference on Research and Development in Information Retrieval, Long & Short & Reproducibility Paper Track, CORE Rank: A*   2020 – 2023

10. ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Applied Data Science Track, CORE Rank: A*   2021 – 2023

09. ACM International Conference on Information and Knowledge Management (CIKM), Short & Resource Paper Track, CORE Rank: A   2020 – 2022

08. ACM International Conference on Web Search and Data Mining (WSDM), CORE Rank: A*   2021 – 2023

07. 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

06. Canadian Conference on Artificial Intelligence (Canadian AI)   2021 – 2022

05. The North American Chapter of the Association for Computational Linguistics (NAACL), CORE Rank: A   2021

04. International AAAI Conference on Web and Social Media (ICWSM), CORE Rank: A   2021 – 2022

03. ACM International Conference on Recommender Systems (RecSys)   2022

02. European Chapter of the Association for Computational Linguistics (EACL), CORE Rank: A   2022 – 2023

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: 6.222

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~~