

ELAHEH RAISI

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EDUCATION

2014–2019: Ph.D. Department of Computer Science, College of Engineering, Virginia Polytechnic Institute and State University.

2008–2011: M.S. Department of Engineering, Science and Research branch of Islamic Azad University, Tehran, Iran. Student in Artificial Intelligence.

2001–2006: B.S. Department of Mathematics and Computer Science, Amirkabir University of Technology, Tehran, Iran. Student in Applied Mathematics.

RESEARCH INTERESTS

- Machine learning, learning with weak supervision, computer vision, computational social science

HONORS/AWARDS

- **Best paper runner up** for the paper titled "Reduced-Bias Co-Trained Ensembles for Weakly Supervised Cyberbullying Detection," CSoNET, 2019.
- Tapia travel award from Virginia Tech, Fall 2018.
- **Best graduate student poster presentation award** at the Virginia Tech SAIC Integrated Security Colloquium, 2018.
- Received stipend bonus from Computer Science department at Virginia Tech for excellent progress, 2017.
- **Best paper award** at Learning with Limited Labeled data workshop at NIPS for the paper titled "Co-trained Ensemble Models for Weakly Supervised Cyberbullying Detection", 2017.
- **Best paper award** at ASONAM for the paper titled "Cyberbullying Detection with Weakly Supervised Machine Learning", 2017.
- Women in Machine Learning (WiML) workshop Travel Award, 2017
- Grace Hopper Celebration Student Scholarship, 2017.
- Best poster presentation at the Iranian Society at Virginia Tech (ISVT) cultural showcase and poster symposium, 2016.
- CRA-Women Grad Cohort Workshop Scholarship, 2016.
- Runner up for the best project prize, Machine Learning course, 2015.
- Broadening Participation in Data Mining Travel Scholarship, 2014.
- Third top Artificial Intelligence student of department in Master's degree graduate students of the year 2008.
- Ranked in the top 1% of the Bachelor's degree participants in the National Universities Entrance Exam in summer 2001.

WORK EXPERIENCE

July 2019-current: Postdoctoral Researcher at Brown University

May-August (2018): Data science intern at PayPal.

May-August (2017): Machine learning intern at Cadence Design Systems.

2011–2014: SADAD Informatics Corp.—a company related to the largest commercial retail bank in Iran and in the Middle East (Bank Melli Iran).

2009–2011: Padid Pardaz Engineering Corp. (PDP)

2007–2009: Atisun Engineering Corp.

PUBLICATIONS

- **Raisi, E.**, Bach, S., "Selecting Auxiliary Data Using Knowledge Graphs for Image Classification with Limited Labels," Visual Learning with Limited Labels (VL3) at CVPR, 2020.

- Ridenhour M., Bagavathi A., **Raisi E.**, Krishnan S., “Detecting Online Hate Speech: Approaches Using Weak Supervision and Network Embedding Models,” SBP-BRIMS, 2020.
- **Raisi, E.**, Huang, B., “Reduced-Bias Co-Trained Ensembles for Weakly Supervised Cyberbullying Detection,” Computational Data and Social Networks (CSoNet), 2019.
- **Raisi, E.**, Huang, B., “Weakly Supervised Cyberbullying Detection using Co-trained Ensembles of Embedding Models,” Advances in Social Networks Analysis and Mining (ASONAM), 2018.
- **Raisi, E.**, Huang, B., “Weakly supervised cyberbullying detection with participant-vocabulary consistency,” Social Networks Analysis and Mining (SNAM), 2018.
- B. Huang and **E. Raisi**, “Weak Supervision and Machine Learning for Online Harassment Detection,” In J. Golbeck, Online Harassment, (1st ed), Springer International Publishing, 2018.
- **Raisi E.**, Ireland L., Huang B., Hawdon J., Peguero A., “Establishing a Virtual Social Laboratory for Investigating Cyberviolence,” Southern Sociological Society Annual Meeting, 2018.
- **Raisi, E.**, Huang, B., “Co-trained Ensemble Models for Weakly Supervised Cyberbullying Detection,” Learning with Limited Labeled data (LLD) workshop at NIPS, 2017.
- **Raisi, E.**, Huang, B., “A Weakly Supervised Deep Model for Cyberbullying Detection,” Women in Machine Learning (WiML) workshop at NIPS, 2017.
- **Raisi, E.**, Huang, B., “Cyberbullying Detection with Weakly Supervised Machine Learning,” Advances in Social Networks Analysis and Mining (ASONAM), 2017.
- **Raisi, E.**, Huang, B., “Cyberbullying Identification Using Participant-Vocabulary Consistency,” Workshop on Machine Learning in Social Good Applications, ICML, 2016.
- Khosravani-Rad, A., Ayanzadeh. R., **Raisi, E.**, and Sadighi, A., “Dynamic Parameters Optimization for Enhancing Performance and Stability of PSO,” Trends in Applied Science Research.
- Jaberri, A., Ayanzadeh, R., **Raisi, E.**, and Sadighi, A., “Central Limit Theorem Based Cellular Automata for Generating Normal Random Numbers,” Information Technology Journal.
- Gholami, A., Ayanzadeh R., **Raisi, E.**, and Sadighi, A., “Fuzzy Honey Bees Foraging Optimization: Swarm Intelligence Approach for Clustering,” Journal of Artificial Intelligence.
- **Raisi, E.**, Abrishami Moghaddam, H., “Incremental Nonparametric Weighted Feature Extraction for Online Subspace Pattern,” 7th Iranian Conference on Machine Vision and Image Processing (MVIP), 2011 (in Persian).
- **Raisi, E.**, Abrishami Moghaddam, H., “Nonparametric Weighted Feature Extraction Based on Projecting Min-Max Distance Vectors,” 7th Iranian Conference on Machine Vision and Image Processing (MVIP), 2011 (in Persian).

EDITORIAL POSITIONS AND SOCIETY FELLOWS

- Reviewer, ICML 2020, *IJCAI-PRICAI* 2020, AAAI 2020, *ASONAM* 2019, *ICML* 2019, *WiML* 2017.
- Program committee member of *CyberSafety 2019, 2018*
- Data science program committee member of *Grace Hopper celebration of women in computing*, 2018

TEACHING EXPERIENCE

- TA for Formal Languages (2019, 2017), 2014, Artificial Intelligence (2018), Machine Learning (2017), Database Management Systems (2015), Data Structures & Algorithms (2015)

PROFESSIONAL SKILLS

- Python, PyTorch, TensorFlow, SQL, C#.NET, MATLAB, ...

LEADERSHIP AND VOLUNTEERING EXPERIENCES

- Volunteer for NIPS 2017 and ICML 2016
- Organizer of several events for Iranian Society at Virginia Tech (ISVT)
- Member of Mathematics and Computer Science Association in Amirkabir University of Technology