Ali Javed, Ph.D. --- Stanford University, USA

+1-802-363-6168 • ajaved@stanford.edu • Click here to book a meeting

LinkedIn • Google Scholar • GitHub

I am **Fulbright Scholar** and **Fellow of the Gund Institute for Environment**.

Sample Work: Ali Javed**,** Donna M. Rizzo, Byung Suk Lee, Robert Gramling, "**SOMTimeS**: Self-Organizing Maps for Time Series Data and its Application to Serious Illness Conversations", *Neural Networks*. *In review:* https://arxiv.org/pdf/2108.11523.pdf

EXPERIENCE

1. Title: **Research Assistant** – Company: **Vermont Conversation Lab.**

Dates : March 2020 – December 2021 (**2 year**) Location: Vermont, **USA**

Role: I designed, coded, trained, and evaluated models that use natural language understanding (**NLU**) and **time-series analysis** methods to understand and motivate high-quality communication in serious illness health care settings.

2. Title: **Sr. Machine Learning Engineer** – Company: **RedBuffer**.

Dates : September 2016 to August 2017 (**1 year**) Location: San Francisco, **USA** (remote)

Role: Worked with **startups** from different industries (e.g., food sciences, cloud computing and green energy) to design and prototype machine learning solutions. I wore different hats depending on the needs of the day.

3. Title: **Software Engineer** – Company: **Teradata**.

Dates : October 2010 to April 2014 (**3.5 years**) Location: **Finland** & **Thailand**

Role: All things Teradata, shell scripts, SQL, Informatica, Control-M and team management.

EDUCATION

All university-level education was fully funded via merit-based scholarships as an honor roll student.

University: **Stanford University**, Burlington, Vermont, U.S.A.

Training: Postdoctoral Fellowship Dates: **Dec. 2020 to current**

Dissertation research: At the **Ashley Lab**, my research alongside Dr. Euan Ashley informs clinical decision-making using time-series data collected by the My Heart Counts App.

University: **University of Vermont**, Burlington, Vermont, U.S.A.

Degree: Doctor of Philosophy (**Ph.D.**) – Computer Science Dates: **Sept. 2017 to June 2021**

Dissertation research: Cluster Analysis of Time Series Data with Application to Hydrological Events and Serious Illness Conversations. (**Fully Funded** by a **Gund-Barrett** Ph.D. Fellowship)

University: University of Vermont, Burlington, Vermont, U.S.A.

Degree: Master (MS) - Computer Science Dates: **Sept. 2014 to June 2016**

Thesis: A Hybrid Approach to Semantic Hashtag Clustering in Social Media. (**Fully Funded** by a **Fulbright** Scholarship)

University: NUCES, Islamabad, Pakistan

Degree: Bachelor's (BS) - Computer Science Dates: **September 2006 to June 2010**

Thesis: Scalable peer-to-peer networks. (**Fully Funded** by a Higher Education Commission Grant.)

Peer Reviewed Publications

1. **Ali Javed,** Donna M. Rizzo, Byung Suk Lee, Robert Gramling, "**SOMTimeS**: Self-Organizing Maps for Time Series Data and its Application to Serious Illness Conversations", *Neural Networks. In review*
2. **Ali Javed,** Donna M. Rizzo, Robert Gramling, "Sounds of Silence: A Conversational Feature in Serious Illness Conversations", *Manuscript in preparation. Expected 2022*
3. Cailin J. Gramling, Brigitte N Durieux, Laurence A. Clarfled, **Ali Javed**, …, Robert Gramling, "Epidemiology of Connectional Silences in Specialist Serious Illness Conversations", *Patient Education and Counseling, Accepted (2021)*
4. Robert Gramling, **Ali Javed**, …, David Gramling, "Conversational Stories and Self-Organizing Maps: Innovations for the scalable study of uncertainty in healthcare communication", *Patient Education and Counseling,* vol, Elsevier, July 2021.
5. **Ali Javed**, Scott D. Hamshaw, Donna M. Rizzo, Byung Suk Lee, "Multivariate Event Time Series Analysis using Hydrological and Suspended Sediment Data", *Journal of Hydrology*, vol, Elsevier, December 2020, pp. (Impact Factor: 4.5)
6. **Ali Javed**, Byung Suk Lee, Donna M. Rizzo, "A benchmark study on time series clustering", *Machine learning with Applications,* vol. 1, Elsevier, September 2020, pp 100001. (Source Normalized Impact Factor not available)
7. **Ali Javed** and Byung Suk Lee, "Hybrid Semantic Clustering of Hashtags", *Online Social Networks and Media*, vol. 5, Elsevier, March 2018, pp. 23-36. (Source Normalized Impact Per Paper: 1.53)
8. **Ali Javed** and Byung Suk Lee. "Sense-Level Semantic Clustering of Hashtags", *Communication in Computer and Information Science*, vol. 656, Springer, March 2017, pp.1-16. (RG Journal Impact factor: 0.35; 15% selected from papers accepted to SIMBig2016)
9. **Ali Javed** and Byung Suk Lee. "Sense-Level Semantic Clustering of Hashtags in Social Media", *Proceedings of the 3rd International Symposium on Information Management and Big Data (SIMBig)*, Cusco, Peru, September 2016, pp.140-149. (Acceptance rate: 39%)

Selected Posters & Presentations

Ali Javed, Scott Hamshaw, Byung Suk Lee, and Donna Rizzo, "Spatiotemporal Trajectories as a New Approach for Studying Concentration-discharge Relationships of Hydrological Events", *American Geophysical Union Fall Meeting*, Washington, D.C., December 10-14, 2018.

Ali Javed, "Sense-Level Semantic Clustering of Hashtags in Social Media" at the *3rd International Symposium of Information Management and Big Data*, Cusco, Peru, September 3, 2016.

Ali Javed, "The Budapest Reference Connectome 3.0: Brain Network Analysis", at the *Neuroscience, Behavior and Health Research Forum*, Burlington, VT, February 9, 2019.

REFERENCES AVAILABLE ON REQUEST