Jillian Tang

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Education

Stanford University

- **MS Candidate**, Computer Science (AI)
  Dec 2020 – Jun 2022 (GPA: 4.3)
- **BS Candidate**, Computer Science (Systems)
  Sep 2018 – Jun 2022 (GPA: 3.85)

Work Experience

Software Engineering Intern, *Citadel Securities*
Jun 2021 –
Building high-performance data systems with q/kdb+, C++, and Kafka.

Software Engineering Intern, *Facebook*
Aug 2020 – Nov 2020
Full-stack development w/ React.js, HackLang, GraphQL, and data pipelines.

Data Engineering Intern, *First Orion*
Jun 2019 – Aug 2019
Unsupervised ML models (Python, Spark, Scala, C) to detect anomalies in high-volume live call data.

Academic Experience

Alexa Prize Team, *Stanford NLP Group*
Sep 2020 – Jun 2021
Helped build 50K-line codebase for open-domain chatbot. Bot deployed to Alexa devices across US towards $500K competition.

Research Assistant, *Stanford NLP Group*
Jun 2020 – Aug 2020
Generative probabilistic modeling w/ PyTorch, Pyro for dialogue act induction. Adv. by Chris Manning.

Senior Section Leader, *Stanford CS Dept.*
Apr 2019 – Jun 2021
TA'ed second semester CS course (C++). Maintained course platforms in React, Sass, Liquid, and Jekyll.

Bioinformatics RA, *AR Children's Research Inst.*
Jun 2019 – Aug 2019
Built R data processing pipeline + R Shiny frontend.

Statistics RA, *Univ. of AR for Medical Sciences*
Aug 2016 – Aug 2018
Developed novel statistical method for autocorrelated time-series data (PLOS ONE).

Skills

Languages: Python, C++, C, Scala, Java, R, SAS.
Cloud: AWS, Google Cloud Platform.
Frameworks: PyTorch, TensorFlow, Pandas.
Data: SQL, Spark, Hive, Presto, q/kdb+.

Additional Experience

Co-Founder, *Stanford ACMLab*
September 2019 – June 2021
Founded club (~100 members+alums) teaching DL. Workshop publications at SemEval@ACL'21, WELM@ICLR'21 (spotlight paper).

Section Leader, *CS Bridge*
August 2020
Taught students from the Czech Republic + Turkey programming in a 3-week intensive program.

Cycloon Co-Lead, *Student Space Initiative*
September 2018 – current
Launched record-breaking high-altitude balloons. Built avionics systems in C, C++, and Arduino.

Co-President, *Taiwanese Cultural Society*
September 2020 – June 2021

Publications

1. GR, ZW, SR, KJ, CE, **TJ** (2021). A Logic Puzzles Task for Probing Large Language Models. *WELM@ICLR (Spotlight).*
2. RE, IN, CE, CG, LKJ, LK, LP, LZ, **TJ***, CE* (2021). Stanford MLab at SemEval Shared Task 1: Tree-Based Methods for Lexical Complexity Prediction. *SemEval@ACL.*
3. Graw S, **Tang J,** Zafar MK, Byrd AK, Bolden C, Peterson EC, Byrum SD (2020). proteiNorm — A User-Friendly Tool for Normalization and Analysis of TMT and Label-Free Protein Quantification. *ACS Omega.*
4. **Tang J**, Landes RD (2020). Some t-tests for N-of-1 trials with serial correlation. *PLOS ONE.* (Pres. at JSM 2018.)
5. Jing B*, Chi EA*, **Tang J*** (2019). SGVAE: Sequential Graph Variational Autoencoder. *arXiv*.
6. Ram R, Jumper H, Lensing SY, **Tang J-L**, Deloney LA, Kenney PJ (2018). Understanding gender differences among medical students when choosing radiology as a medical specialty. *Academic Radiology*.
7. AMO, RR, KA, HS, **TJ**, AK, MP, SER, SA, MFA, HSE (2017). Aggressive care at the end of life: A study of practice based factors in patients with stage IV cancer. *Journal of Clinical Oncology.*