

Education

Degree	Field	Institution	Country	Class
- M.Sc.Eng.	<u>Data Science</u>	University of Pennsylvania (UPenn)	USA	2019
- B.Sc., Honors	<u>Materials and Nanosciences</u>	University of Waterloo (UW)	Canada	2017
- B.Eng.	<u>Nanomaterials and Technology</u>	Beijing Jiaotong University (BJTU)	China	2017

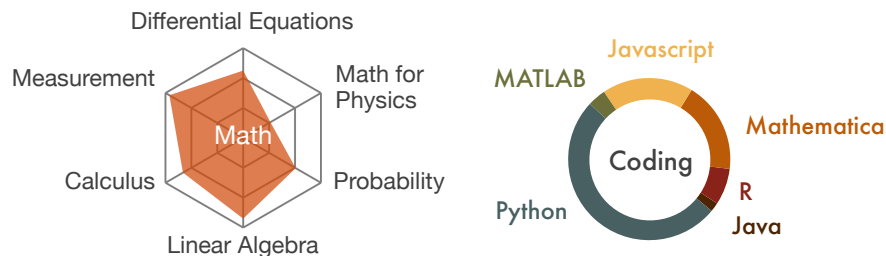
Employment

- Software Engineer **Google**, Alphabet Inc. 2019.9 -
- Research Assistant **World Well-Being Project**, Penn Positive Psychology Center 2018.9 - 2019.5
Quantitatively compares cultures (Emoji association, politeness, etc.) across countries using terabyte-level microblog corpora. Uses Hadoop, gensim, and Spark.
- Research Associate **Wharton Research Data Services**, Wharton School 2018.8 - 2019.9
- Research Assistant **Wharton Research Data Services**, Wharton School 2017.11 - 2018.8
Extracts tabular data from plain-text financial reports (Form 10-K, etc.). Uses regular expressions, Jupyter Lab environment, Linux maintenance, and single-machine parallel computing. Coordinates two Research Assistants for teamwork on manually inspecting machine-extracted documents.

Skills

Experienced in natural language processing (esp. word embeddings), information extraction from textual documents, parallelization, data analysis, and *nix maintenance.

Computer Languages	Python, Javascript, MATLAB, R, Mathematica, Java, SQL.
Data Management	MongoDB (via PyMongo), SQL (MySQL, PostgreSQL), Hadoop.
Parallel Processing	Hadoop, Open Grid Scheduler, Python multiprocessing & threading.
Data Analysis	Jupyter (Lab), pandas, matplotlib, seaborn, scikit-learn, ggplot2.
Mathematics	Probability, Linear Algebra, Calculus, Mathematical Statistics.
Other Coursework	Algorithms, Machine Learning, Information Theory, Machine Perception.
Languages	Mandarin (native), English (fluent; professional writing), Japanese (reading).



Publications

- Guntuku, S. C., Li, M., Tay, L., & Ungar, L. H. (2019). Studying Cultural Differences in Emoji Usage across the East and the West. Proceedings of the International AAAI Conference on Web and Social Media, 13(01), 226–235. <http://arxiv.org/abs/1904.02671>

- Li, M., Guntuku, S. C., Jakhetiya, V., & Ungar, L. (2019, March 18). Exploring (Dis-)Similarities in Emoji-Emotion Association on Twitter and Weibo. <https://doi.org/10.1145/3308560.3316546>
- Li, T., Li, M., & Huang, J. (2016). Quantum Fisher information of triphoton states. *Chinese Optics Letters*, 14(3), 032701.