

Tim Jaung

Profile

I am an aspiring Software Engineer with a vast background in Data Science and research. Through my past work, I have deployed a variety of machine learning models, built ETL pipelines from the ground up, and was a core contributor of multiple published articles. Through my own learning, I have completed projects to round out my Software Engineering skills.

Employment History

Data Scientist/Engineer at Cohere Health, Boston, MA

June 2022 — December 2023

- Deployed various machine learning models saving business and clients an estimated \$67M
- Identified cases of unnecessary costs, and worked with business stakeholders to create solutions
- Collaborated cross-functionally to identify new opportunities for growth
- Built new ETL pipelines and Tableau dashboards for internal stakeholders using Pyspark and Airflow
- Built an internal monitoring dashboard with Python for DS internal use and deployed with Docker
- Migrated data sources with Elastic Search and AWS Hudi for improved processing times
- Built ETL pipelines to ingest and standardize client data sources
- Maintained and optimized existing data pipelines

Statistician at Dana-Farber Cancer Institute, Boston, MA

June 2020 — May 2022

- Collaborating with a multidisciplinary team of researchers and clinicians to design and implement statistical models and experiments
- Analyzing and interpreting complex datasets using Python, SAS programming, and R
- Applying multivariate statistical techniques to identify patterns and trends in cancer data
- Utilizing machine learning algorithms to develop predictive models for cancer prognosis and treatment response

Statistical Programmer at Penn Medicine, Philadelphia, PA

November 2019 — May 2020

- Acted in leading role to provide statistical expertise for research team
- Prepared data for statistical modeling using SAS
- Conducted parametric and non-parametric tests and used results for statistical reporting
- Wrote SAS macros to download SEER-Medicaid and MEPS data sets to uploaded to Linux database

Research Assistant at Childrens Hospital of Philadelphia, Philadelphia, PA

April 2019 — August 2019

- Coded and compiled data on the largest dataset on children with Autism
- Collaborated with team to create coding scheme for future stages in research
- Wrote R script to record, visualize, and streamline coding progress

Graduate Assistant at University of Pennsylvania, Philadelphia, PA

August 2018 — April 2019

- Transcribed, coded, and collected data for statistical analyses

Details

Boston, MA, (508) 965-3918

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Links

[Github](#)

Skills

Airflow

AWS

Docker

Elastic Search

Git

HTML/CSS

JavaScript

Machine learning

NPM

Python

R

SAS programming

Spark

SQL

Statistical data analysis

Unix

Languages

English

Chinese

Korean

- Analyzed data using statistical methods to find trends in linguistic data
- Collaborated with PI for future directions with project

Education

M.S. Statistics, Measurement, Assessment, and Research Technology (GPA: 3.8), University of Pennsylvania, Philadelphia, PA

August 2018 — May 2020

- Penn GSE Merit Scholarship (\$10,000)
- Coursework from Educational Linguistics Department

B.A. Chinese Language and Literature, University of Pittsburgh, Pittsburgh, PA

August 2014 — April 2018

- University of Pittsburgh *cum laude*
- University of Pittsburgh Dietrich A&S Dean's List

Projects

Safe Streets Initiative Project

April 2020

A short analysis of the Safe Streets Initiative Project for Boston, MA. The project involved having specific police officers actively patrol the same streets for a period of time and get to know the residents and common passersby in the area. The goal of it was to see if having a recognizable face would increase trust in law enforcement and lead to reductions in crime.

Link: <https://www.kaggle.com/code/tjaung/safe-streets-initiative-10-years-later>

The Odin Project

A free, online curriculum for anybody trying to learn web development. It is heavily project based so that any learners can build a portfolio to showcase their work. This has been an ongoing learning project of mine, and while I still have a long way to go, I can confidently say that my current progress has taught me lots about development.

You can track my projects and progress here in my GitHub:

<https://github.com/tjaung/TOP>

Publications

2022

- Mack, Jennifer & Jaung, Tim & Uno, Hajime & Brackett, Julianne. (2022). Change in the Parent-Clinician Relationship Throughout the First Year of Treatment in Pediatric Oncology. JAMA Network Open. 5. e2230503. 10.1001/jamanetworkopen.2022.30503.
- DuMontier, Clark & Jaung, Tim & Bahl, Nupur & Manor, Brad & Testa, Marcia & Dieli-Conwright, Christina & Kim, Dae Hyun & Hsieh, Tammy & Driver, Jane & Abel, Gregory. (2022). Virtual frailty assessment for older adults with hematologic malignancies. Blood Advances. 6. 10.1182/bloodadvances.2022007188.
- Pozzar, Rachel & Enzinger, Andrea & Poort, Hanneke & Furey, Ann & Donovan, Heidi & Orechia, Meghan & Thompson, Embree & Tavormina, Anna & Fenton, Anny & Jaung, Tim & Braun, Ilana & DeMarsh, Andrea & Cooley, Mary & Wright, Alexi. (2022). Developing and Field Testing BOLSTER: A Nurse-Led Care Management Intervention to Support Patients and Caregivers following Hospitalization for Gynecologic Cancer-

Associated Peritoneal Carcinomatosis. *Journal of Palliative Medicine*. 25. 10.1089/jpm.2021.0618.

Hshieh, Tammy & DuMontier, Clark & Jaung, Tim & Bahl, Nupur & Hawley, Chelsea & Mozessohn, Lee & Stone, Richard & Soiffer, Robert & Driver, Jane & Abel, Gregory. (2022). Impact of Polypharmacy and Potentially Inappropriate Medications Among Older Adults With Blood Cancers. *SSRN Electronic Journal*. 10.2139/ssrn.4016485.

2021

Kuczmarski, Thomas & Jaung, Tim & Mancuso, Claire & Mozessohn, Lee & Roemer, Lizabeth & Abel, Gregory & Odejide, Oreofe. (2021). Pre-cancer and cancer-associated depression and anxiety among older adults with blood cancers in the United States. *Blood Advances*. 6. 10.1182/bloodadvances.2021005862.

Mack, Jennifer & Jaung, Tim & Uno, Hajime & Brackett, Julianne. (2021). Parent and Clinician Perspectives on Challenging Parent-Clinician Relationships in Pediatric Oncology. *JAMA Network Open*. 4. e2132138. 10.1001/jamanetworkopen.2021.32138.

Hshieh, Tammy & DuMontier, Clark & Jaung, Tim & Bahl, Nupur & Magnavita, Emily & Hawley, Chelsea & Mozessohn, Lee & Stone, Richard & Soiffer, Robert & Driver, Jane & Abel, Gregory. (2021). Impact of Polypharmacy and Potentially Inappropriate Medications Among Older Adults with Blood Cancers. *Blood*. 138. 4089-4089. 10.1182/blood-2021-148731.

DuMontier, Clark & Jaung, Tim & Bahl, Nupur & Magnavita, Emily & Manor, Brad & Testa, Marcia & Kim, Dae Hyun & Hshieh, Tammy & Driver, Jane & Abel, Gregory. (2021). Virtual Versus in-Person Frailty Assessments in Older Adults with Hematologic Malignancies. *Blood*. 138. 2997-2997. 10.1182/blood-2021-150668.

Abel, Gregory & Klepin, Heidi & Magnavita, Emily & Jaung, Tim & Lu, Wen & Shallis, Rory & Hantel, Andrew & Bahl, Nupur & Dellinger-Johnson, Rebecca & Winer, Eric & Zeidan, Amer. (2021). Peri-transfusion quality-of-life assessment for patients with myelodysplastic syndromes. *Transfusion*. 61. 10.1111/trf.16584.

Habib, Anand & Chen, Richard & Magnavita, Emily & Jaung, Tim & Awad, Mark & Odejide, Oreofe & Abel, Gregory. (2021). Prevalence and Tolerance of Prognostic Uncertainty Among Thoracic Oncologists. *The Oncologist*. 26. 10.1002/onco.13788.

2020

Kuczmarski, Thomas & Jaung, Tim & Mancuso, Claire & Roemer, Lizabeth & Abel, Gregory & Odejide, Oreofe. (2020). Pre-Diagnostic and Cancer-Associated Depression and Anxiety Among Patients with Hematologic Malignancies in the United States. *Blood*. 136. 38-38. 10.1182/blood-2020-140151.

Abel, Gregory & Klepin, Heidi & Magnavita, Emily & Jaung, Tim & Shallis, Rory & Bahl, Nupur & Dellinger-Johnston, Rebecca & Winer, Eric & Zeidan, Amer. (2020). Feasibility of Peri-Transfusion Quality of Life Assessment for Patients with Myelodysplastic Syndromes. *Blood*. 136. 25-26. 10.1182/blood-2020-139919.

Rana, Huma & Kipnis, Lindsay & Hehir, Kristin & Cronin, Angel & Jaung, Tim & Stokes, Samantha & Fekrmandi, Fatemeh & Vatrnick, Donna & Matulonis, Ursula & Garber, Judy & Wright, Alexi. (2020). Embedding a genetic counselor into oncology clinics improves testing rates and timeliness for women with ovarian cancer. *Gynecologic Oncology*. 160. 10.1016/j.ygyno.2020.11.003.

2019

Yankowitz, L.D., Petrulla, V., Meera, S.S., Plate, S., Pandey, J., Swanson, M., Pruett, J., Edwards, M., Moshiri, L., Laver, A., Bourneuf, C., Jaung, T.,

Tunc, B., Guthrie, W., Cola, M., Wang, L.A.L., Marrus, N., Hazlett, H., Botteron, K., Constantino, J., Dager, S., Estes, A., Zwaigenbaum, L., Piven, J., Schultz, R.T., Parish-Morris, J., & the IBIS Network. (submitted). Canonical babbling at 6 and 12 months differentiates infants at high- and low-risk for ASD. Abstract submitted to the International Society for Autism Research Annual Meeting.

2018

Jaung, T. "Text Memorization in Chinese Foreign Language Teaching." Paper Presentation, Pittsburgh Asian Consortium Undergraduate Conference. University of Pittsburgh, Pittsburgh, PA, February 24, 2018