TRANG NGUYEN

https://www.linkedin.com/in/trangnguyen17/

EDUCATION

 University of Massachusetts, M.S./Ph.D. Computer Science in progress Advisor: Prof. Madalina Fiterau 	
• GPA: 4.0 / 4.0	
Grinnell College, B.A. Mathematics & Statistics with Honors (GPA: 3.94/4.00)	2017
HONORS AND AWARDS	
 Honorable Mention for Ford Foundation Predoctoral Fellowship 	2023
Lori A. Clarke Scholarship	2023
Finalist in the Three Minute Thesis Competition 2023	2023
Phi Beta Kappa, Academic Honor Society	2017
• First Place, National Undergraduate Class Project Competition (American Statistics Association)) 2016
Summer Business Scholars Program Full Scholarship, University of Chicago	2015

KNOWLEDGE AND SKILLS

Knowledge : Machine Learning, Network Analysis, Survey Methodology, Experimental Design
 Programming : Python, Java, R, SQL (Advanced), HTML & CSS, Javascript (Intermediate), C (Basic)

Languages : English (fluent), Vietnamese (fluent), Korean (basic), Japanese (basic)

• Others : Software development, Database, Spark, Cloud Computing

SELECTED PUBLICATIONS

Vela D., Sharp A., Zhang R., **Nguyen T.**, Hoang A., Pianykh O.S.. Temporal quality degradation in Al models. *Sci Rep* **12**, 11654 (2022).

Bailey P., Lee M., **Nguyen T.**, Zhang T. (2020) Using EdSurvey to Analyse PIAAC Data. In: Maehler D., Rammstedt B. (eds) Large-Scale Cognitive Assessment. Methodology of Educational Measurement and Assessment. Springer, Cham.

Long, Y.*, **Nguyen, T.***, & Tareque, I.* (2016). Logistic Regression and Classification Tree on Customer Churn in Telecommunication. First Place Award, National Undergraduate Statistics Class Project Competition. (* equally contributed)

SELECTED ONGOING AND UNBPULISHED RESEARCH PROJECTS

Analyzing Eating Disorders through Social Media Anecdotes, *UMass Amherst*

2023 - Present

- Analyzed different triggers and recovery patterns of people who suffer from eating disorders and selfreport on Reddit from 2020 to 2023 using topic modeling and large language models (GPT-3)
- Abstract submitted to TADA 2023

Optimal Genomics-Drug Fusion in Predicting Cancer Drug Response, UMass Amherst

2022 - 2023

- Analyzed different fusion methods to combine genomics and drug embeddings and tested how different methods react to different fusion points
- Manuscript to be submitted to Briefings in Bioinformatics

Informal Network Analysis of Staff in a College, Grinnell College

2016

- Designed survey and used network analysis to design a cost-effective method to group staff in an organization.
- Delivered a white paper and web application to the Human Resources Department of Grinnell College

INDUSTRY EXPERIENCE

Lead DataOps Engineer, Tamr Inc.

2019 - 2022

- Worked with business executives and software architects to design, implement, and productionize data pipelines, integrating the machine learning solution in the data architecture ecosystem.
- Trained semi-supervised clustering models with active learning by engaging subject-matter experts in an iterative process of training and validating machine learning models.
- Designed and programmed microservices to run regression testing on big-scale clinical mapping projects, and web apps to monitor model drift

Data Scientist Assistant, American Institutes for Research, Washington, D.C.

2017 - 2019

- Co-authored two published R packages (<u>EdSurvey</u> and <u>WeMix</u>) that connects to big survey databases and analyzes complex survey data with imputation variance and multilevel weights.
- Implemented deep learning algorithms to extract behavioral features from videos, and natural language processing to extract features from video transcripts for classroom analytics.

SERVICE & OUTREACH

•	Advisor for Voices of Data Science	2023 - Present
•	Co-Chair for Voices of Data Science Conference	2022 – 2023
•	Data Science Talent Fellow at Open Avenues Foundation	2020 - 2021