THANH N.M. NGUYEN

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Github: https://github.com/ThanhNguyen93

EDUCATION

M.S. in Operations Research **Dec. 2019**

Illinois Institute of Technology – Chicago, Illinois

Courses: Data Mining, Statistical Learning/Machine Learning, Mathematical Modeling, Bayesian Computational Statistics, Optimization, Monte Carlos Simulation, Object-Oriented Programming, Data Structures and Algorithms

Bachelor in Business Administration: Statistics and Marketing **May 2016**

Truman State University - Kirksville, Missouri

Courses: Biostatistics, ANOVA, Linear Regression, Statistical Quality Control, Multivariate and Vector Calculus, Matrix Algebra, Operations Management, Market Research, Consumer Behaviors, Intro to Psychology, Economics

WORK EXPERIENCE

Research Data Analyst I Bioinformatics **Aug 2021 - present**

Moffitt Cancer Center – Tampa, Florida

- Creating streamlined analysis pipelines for single-cell multimodal data (single cell RNA-seq and single cell ATAC-seq) which can handle one or multiple samples with/without debatching/integration techniques
- Building single-cell transcriptomics reference atlas by leveraging 190 large public dataset and processing them through in-house pipeline by parallel computation
- Designing, developing and deploying high performance computing (HPC) software in the cluster to facilitate research for the PI
- Writing manuscript as first and co-authors for publication and showcase projects with poster presentation at company and national conferences

Research Associate **Feb 2020 – July 2021**

Medstar Health - National Center for Human Factors in Healthcare – Washington DC

- Performed ETL, collecting & integrating large datasets from different data sources
- Updated data warehouse, catching data quality issues, and creating statistical data analysis reports
- Leveraged the FDA's API, web scraping, MS SQL server for data retrieval, dealing with unstructured, structured & relational big databases on vaccines, drugs and medical devices datasets
- Prepared data for manuscript submission as part of a grant-funded research team

PUBLICATION

Li J, Smalley I, Chen Z, Wu JY, Phadke MS, Teer JK, **Nguyen T**, Karreth FA, Koomen JM, Sarnaik AA, Zager JS, Khushalani NI, Tarhini AA, Sondak VK, Rodriguez PC, Messina JL, Chen YA, Smalley KSM. Single cell characterization of the cellular landscape of acral melanoma identifies novel targets for immunotherapy. Clin Cancer Res. 2022 Mar 4:clincanres.3145.2021. doi: 10.1158/1078-0432.CCR-21-3145. Epub ahead of print. PMID: 35247927.

CONFERENCE POSTER PRESENTATION

- **Nguyen, TN**, Chen Z, Tian Y, Rodriguez P, Wang L, Yu X, Chen YA. (May 2022) ISCVAM - Interactive Single Cell Visual Analytics for Multiomics. *Moffitt Scientific Symposium*, Tampa, FL.
- **Nguyen, TN**, Chen Z, Tian Y, Rodriguez P, Wang L, Yu X, Chen YA. (March 2023) ISCVAM - Interactive Single Cell Visual Analytics for Multiomics. *Statistical Practice in Cancer Conference (SPCC)*, Tampa, FL.
- **Nguyen, TN**, Chen Z, Tian Y, Rodriguez P, Wang L, Yu X, Chen YA. (April 2023) ISCVAM - Interactive Single Cell Visual Analytics for Multiomics. *American Association for Cancer Research (AACR)*, Orlando, FL.

SERVICE TO THE PROFESSION

- Co-taught a training lecture at department monthly single cell meeting with Zhihua Chen and Ann Chen on *"how to write ISCVA-complaint H5 files and functionality of ISCVA for analyzing single cell dataset"* (1 lecture for 9 members)
- Invited panelist, Careers Beyond Tech Career Fair, *National Institute of Statistical Sciences (NISS),* March 2023
- Mentoring 1 junior student in data science who successfully received internship offer from Bank of America