Ha Nguyen

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EDUCATION

Cornell University   Ithaca, NY
Department of Statistics and Data Science   *Sep 2022 - present*
Ph.D. Candidate

St. Olaf College   Northfield, MN
Bachelor of Arts, Mathematics and Psychology   *Sep 2015 - Jun 2019*
Concentration in Statistics
- magna cum laude
- Center for Interdisciplinary Research Fellowship

WORKPLACE

Analysis Group, Inc.   Boston, MA
Senior Research Analyst & Statistical Programmer   *Jul 2021 – Jun 2022*
Research Analyst & Statistical Programmer   *Aug 2019 - Jun 2021*

Thomas Jefferson University   Philadelphia, PA
Summer Biostatistics Intern   *Jun 2018 – Jul 2018*

RESEARCH EXPERIENCE

Building R Shiny platform for budget impact models (BIMs)   Boston, MA
Supervisor: Dr. James Signorovitch, Analysis Group   *Jan 2021 - Jun 2022*
- Built a platform that allows users to create streamlined BIMs using partitioned survival analyses on R Shiny websites, and replace traditional error-prone Excel models
- Refactored the platform into an object-oriented framework to improve runtime performance and allow for integration with an existing platform that runs cost-effectiveness models

Meta-analyzing impacts of long-acting injectable anti-psychotics (LAI) in schizophrenia   Boston, MA
Supervisor: Dr. Patrick Lefebvre & Dr. Rajeev Ayyagari, Analysis Group   *May 2020 - May 2021*
- Conducted systematic literature review and random effects meta-regressions to demonstrate significant improvements in adherence and healthcare resource utilization of LAI over daily oral antipsychotics. *Published findings as co-author in CNS Drugs*
- Implemented Bayesian network meta-analyses to evaluate the association between antipsychotic administration frequencies and hospitalizations. *Poster presented at the European College of Neuropsychopharmacology Congress 2021*

Predicting Minnesota voter turnout in the 2018 midterm election   Northfield, MN
Supervisor: Prof. Paul Roback & Prof. Matt Richey, St. Olaf College   *Nov 2018 - Dec 2018*
- Collected voter turnout records, political structure, and social-economic data of 87 counties in Minnesota, and imputed missing 2018 demographic data
- Designed robust machine learning models to predict voter turnout for the eight congressional districts in Minnesota. *Awarded first place in the MinneMUDAC Student Data Challenge 2018*

Constructing a psychometric scale to assess racial microaggressions   Northfield, MN
Supervisor: Prof. Chuck Huff, St. Olaf College   *Sep 2017 - Feb 2019*
- Constructed the Racial Microaggression Acceptance Scale from survey data to evaluate perceived acceptability, aggressiveness, and offensiveness of putative microaggressions
- Demonstrated high internal validity of the scale using exploratory factor analysis and item reduction, as well as high convergent validity with other racial content scales using hypothesis testing. *Poster presented at the Society for Personality and Social Psychology Meeting 2019*

Evaluating impacts of behavioral activation (BA) on comorbid depression   Philadelphia, PA
Supervisor: Prof. Benjamin Leiby, Thomas Jefferson University   *Jun 2018 - Jul 2018*
- Conducted longitudinal data analysis to investigate the impacts of BA, a skill used in cognitive behavioral therapy, on comorbid depression in seniors with mild cognitive impairment. *Poster presented at the Midwestern Psychological Association Meeting 2019*

LEADERSHIP EXPERIENCE

Healthcare Training   Boston, MA
Position: Co-leader, Analysis Group   *May 2021 - June 2022*
- Coordinated with a trainer team to develop an online training course for new analysts, which covers topics fundamental to health economics and outcomes research (HEOR) such as sample selection and hypothesis testing
- Led online interactive workshops at the end of the course to help new analysts synthesize training materials and review key concepts in an HEOR study

Sports Analytics Club   Northfield, MN
Position: Founder & co-president, St. Olaf College   *Jan 2019 - Jun 2019*
- Organized weekly meetings and speaker events to foster interest and participation in sports analytics discussion
- Developed partnership with St. Olaf sport coaches and provided statistical analyses of sports teams' performance

TEACHING EXPERIENCE

Intro to Statistics	Fall 2022	Cornell University	TA
Healthcare Training Workshop	Fall 2020 & Spring 2021	Analysis Group	Instructor
Statistical Modeling	Spring & Fall 2018	St. Olaf College	TA & grader
Statistics for the Sciences	Fall 2017	St. Olaf College	TA & grader

TECHNICAL SKILLS

- Data analysis: R, R Shiny, SAS, Python, SQL, Stata
- Office utilities: MS Word, Excel, PowerPoint
- Reproducible research: Markdown, LaTeX, Git, Jupyter Notebook