

Yingjie (Gary) Zhou

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EDUCATION

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- Brown University** | Master of Science in Biostatistics 2021 - 2023
- *Member*, Diversity and Inclusion Committee for the Department of Biostatistics
- University of Pennsylvania** | Bachelor of Science in Nursing, *Cum Laude* 2015 - 2019
- Minors in Health Services Management (Wharton) and Hispanic Studies (College of Arts and Sciences)
 - *Winger/Fullback, Equipment Chair*, Penn Men's Rugby Football Club
 - *Member*, Alpha Iota Gamma Healthcare Fraternity

WORK EXPERIENCE

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- Statistical Analyst/Graduate Research Assistant** January 2023 – Present
- Brown University | School of Public Health | Providence, RI
- Facilitate big data extraction from Rhode Island All-Payer Claims Database through complex SQL Server queries
 - Apply causal inference methods to create longitudinal multistate models of Opioid Use Disorder (OUD) Cascade of Care
 - Link and integrate statewide eligibility, medical, and pharmaceutical insurance claims data to identify protective and risk factors for opioid use behaviors
- Advanced Methodology & Data Science Intern** June 2022 – August 2022
- Novartis International AG | Global Drug Development | East Hanover, NJ
- Built and maintained data preprocessing pipeline to automatically import survival endpoints from ADaM oncology data
 - Created Shiny application to predictively model and visualize multi-state survival outcomes following CAR T-cell therapy
 - Co-developed `ggmodules`, an R package that provides clinical teams with point-and-click interfaces to quickly customize, prototype, and deploy interactive dashboards for secure trials data, which, after presenting its benefits to oncology team stakeholders, led to product adoption
- Graduate Research Assistant** October 2021 – May 2023
- Brown University | Department of Biostatistics | Providence, RI
- Preprocessed, combined, and transformed high-dimensional neuroimaging datasets through standardized Python pipeline
 - Implemented machine learning methods for image classification and presented validated findings to students and faculty
 - Utilized topological data analysis techniques (e.g., Smooth Euler Characteristic Transform) to extract texture-based features from tau PET neuroimaging scans for classification of Alzheimer's disease states
- Graduate Research Assistant** September 2021 – December 2022
- Brown University | Center for Statistical Sciences | Providence, RI
- Leveraged survival analysis methods to identify, synthesize, and story tell data trends in individualized adaptive radiotherapy treatment among patients with non-small cell lung cancer
 - Investigated possible prognostic and predictive biomarkers for tumor control among radiotracer uptake features
- Clinical Research Coordinator** November 2019 – June 2021
- University of Pennsylvania | Center for Weight and Eating Disorders | Philadelphia, PA
- Screened, enrolled, and managed 120 study subjects for NIH-funded neuroimaging studies and set up investigational medication clinical trials in collaboration with cross-functional Eli Lilly team
 - Executed a Facebook ad optimization recruitment strategy, leading to a 90% reduction in subject recruiting costs
 - Designed, wrote, and implemented statistical analysis plans for complex health survey data (e.g., NHANES)
 - Managed team of 6 research assistants and led workshop on experiment design, study documentation, and data analytics
 - Prepared manuscripts, tables, references, and figures for 6 co-authored publications related to weight and eating disorders
- Undergraduate Research Assistant** September 2018 - May 2019
- University of Pennsylvania | Perelman Center for Political Science and Economics | Philadelphia, PA
- Conducted sentiment and textual analysis of national convention surveys and extracted protester perspectives, informing Dr. Daniel Gillion's book "The Loud Minority: Why Protests Matter in American Democracy"
 - Codified NYT-reported protests by congressional district to support GIS map of national protests from 1960 to 1995

HEALTH CARE CONSULTING/MANAGEMENT COURSEWORK

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| • Management and Economics of the Pharmaceutical, Biotech, and Medical Device Industries | • Microeconomics |
| • Forecasting Methods for Management | • Healthcare Management and Strategy |
| • Healthcare Accounting & Business Planning | • Health Care Entrepreneurship |
| | • Healthcare Systems |

TECHNICAL SKILLS

Programming Languages: Python | SQL | R | STATA | SAS | UNIX Shell | Matlab | LaTeX | Stan | HTML | Markdown

Tools: Tableau | PowerBI | Microsoft Office (Access, Excel, Word, etc.) | Gitlab/Git/Github | GPT-4 | Pytorch | Tensorflow

Languages: English | Spanish | Cantonese | Mandarin