

Yingjie (Gary) Zhou

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EDUCATION

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| Brown University Master of Science in Biostatistics | August 2021 - May 2023 |
| <ul style="list-style-type: none">Member, Diversity and Inclusion Committee for the Department of Biostatistics | |
| University of Pennsylvania Bachelor of Science in Nursing, <i>Cum Laude</i> | August 2015 - May 2019 |
| <ul style="list-style-type: none">Minors in Health Services Management and Hispanic StudiesWinger/Fullback, Equipment Chair, Penn Men's Rugby Football ClubSustainability Chair, Philanthropy Board Member, Delta Kappa Epsilon FraternityMember, Alpha Iota Gamma Healthcare FraternityMember, Men Against Rape & Sexual Assault Club | |
| Alameda High School Salutatorian (Class Size: 461) Alameda, California | August 2011 - May 2015 |

WORK EXPERIENCE

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| Graduate Research Assistant | October 2021 - Present |
| Brown University Department of Biostatistics Providence, RI | |
| <ul style="list-style-type: none">Utilized novel topological data analysis techniques (e.g., Smooth Euler Characteristic Transform) to extract texture-based features from PET neuroimaging scans for prediction of Alzheimer's disease trajectory | |
| Graduate Research Assistant | September 2021 - Present |
| Brown University Center for Statistical Sciences Providence, RI | |
| <ul style="list-style-type: none">Modeled the effect of individualized adaptive radiotherapy on overall survival, progression-free survival, and local/regional failure for patients with non-small cell lung cancer using semiparametric methods | |
| Advanced Methodology & Data Science Intern | June 2022 – August 2022 |
| Novartis International AG Global Drug Development East Hanover, NJ | |
| <ul style="list-style-type: none">Built data preprocessing pipeline to automatically import survival endpoints from ADaM oncology dataCreated Shiny application to model and visualize multi-state survival outcomes following CAR T-cell therapyDeveloped and presented on ggmodules, an R package that provides clinical teams with point-and-click interfaces to quickly customize, prototype, and deploy interactive dashboards for trials data | |
| Clinical Research Coordinator | November 2019 – June 2021 |
| University of Pennsylvania Center for Weight and Eating Disorders Philadelphia, PA | |
| <ul style="list-style-type: none">Screened, enrolled, and monitored 120 study subjects for NIH-funded neuroimaging studies and investigational medication clinical trials sponsored by Eli Lilly and CompanyDesigned and executed statistical analysis plans for complex surveys (e.g., NHANES) using SASCo-authored 4 publications related to weight and eating disorders, including a systematic review of their genetic correlatesDrafted literature reviews of policies, standards of practice, trends, and physiological considerations of bariatric surgeryManaged 6 research assistants and taught data analysis methods to members of the Chao Lab | |
| Undergraduate Research Assistant | September 2018 - May 2019 |
| University of Pennsylvania Perelman Center for Political Science and Economics Philadelphia, PA | |
| <ul style="list-style-type: none">Conducted textual and sentiment analysis of survey data drawn from Democratic and Republican national conventions to gain insight on protester policy concernsInvestigated the economic impact of Medicare Part D implementation on racial and ethnic minorities using Medicare dataCodified NYT-reported protests by congressional district to support GIS map of national protests from 1960 to 1995 | |
| Health Ambassador | June 2018 – August 2018 |
| La Clinica de la Raza Oakland, CA | |
| <ul style="list-style-type: none">Improved colorectal cancer screening rates at the San Antonio Health Center through the creation of new workflows for chronic disease population managementEvaluated the likelihood of missed appointments through data analysis and reduced no-show rates through patient outreach in Cantonese, Spanish, and MandarinDeveloped and presented reports evaluating sitewide performance to management | |
| Undergraduate Research Assistant | January 2017 – January 2018 |

Christopher Magoon | Philadelphia, PA

- Conducted foundational reporting and literature reviews of policies, standards of practice, trends, and physiological considerations in organ transplant allocation
- Supported claims of gender disparities in waiting times for organ transplants using statistical tests on UNOS data

PUBLICATIONS

Articles

- Joseph PV, **Zhou Y**, Brooks BE, McDuffie C, Agarwal K, Chao AM. Relationships among alcohol drinking patterns, macronutrient composition, and caloric intake: National Health and Nutrition Examination Survey 2017-2018. *Alcohol and Alcoholism*. 2022. In press.
- Chao AM, **Zhou Y**, Franks AT, Brooks BE, Joseph PV. Associations of Taste Perceptions with Tobacco Use, Marijuana Use, and Body Mass Index: Findings from the National Health and Nutrition Examination Survey. *Chem Senses*. 2021;46:bjab017. doi: 10.1093/chemse/bjab017
- Gupta SR, **Zhou Y**, Wadden TA, Berkowitz RI, Chao AM. A Systematic Review of Genetic Correlates of Weight Loss After Bariatric Surgery. *Obes Surg*. 2021;31(10):4612-4623. doi: 10.1007/s11695-021-05585-6
- Chao AM, **Zhou Y**, Wei X, Wisdom-Goulbourne T, Dowd M, Compher C. Nutrition Education in Primary Care Adult and Family Nurse Practitioner Programs. *Nurse Educ*. 2022;47(1):47-50. doi:10.1097/NNE.0000000000001050
- Sockolow PS, Bowles KH, Pankok C Jr, **Zhou Y**, Potashnik S, Bass EJ. Planning the Episode: Home Care Admission Nurse Decision-Making Regarding the Patient Visit Pattern. *Home Health Care Manag Practice*. 2021;33(3):193-201. doi:10.1177/1084822321990775

Abstract/Poster Acceptance

- Sexton C, **Zhou Y**, Bach R, Chao AM. Perceived Food Environment and Addictive-like Eating Behaviors in Adults with Obesity. Abstract accepted and will be presented at the ENRS 34th Annual Scientific Session. 2022.
- **Zhou Y**, Gupta S, Pearl RL, Tronieri JS, Wadden TA, Williams NN, Allison KC, Chao AM. A Comparison of Dieting and Weight Histories in Patients with and without Binge Eating Disorder Seeking Bariatric Surgery. Abstract and poster accepted and presented at The Obesity Society Annual Meeting: ObesityWeek® Interactive. 2020.

MATH AND STATISTICS COURSEWORK

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| • Bayesian Statistical Methods | • Data Analytics and Statistical Computing |
| • Introduction to Bayesian Data Analysis | • Forecasting Methods for Management (Time-Series) |
| • Statistical Learning and Big Data | • Probability |
| • Statistical Inference I | • Linear Algebra and Ordinary Differential Equations |
| • Causal Inference and Missing Data | • Partial Differential Equations |
| • Modern Regression | • Linear Algebra (Proof-Based) |
| • Longitudinal Data Analysis | • Multivariable Calculus |
| • Multilevel Data Analysis | • Introductory Business Statistics I |
| • Applied Generalized Linear Models | • Introductory Business Statistics II |
| • Introduction to Python for Data Science | • Sample Survey Design |
| • Statistical Programming with R | • Practical Data Analysis |

HEALTHCARE MANAGEMENT COURSEWORK

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

INPATIENT CLINICAL ROTATIONS

- Hospital of the University of Pennsylvania – Neurology Unit
- Pennsylvania Hospital – Psychiatry Unit
- Hospital of the University of Pennsylvania – Transplant/Bariatric Surgery Unit
- Children’s Hospital of Pennsylvania – Pediatric Surgical Unit

- Hospital of the University of Pennsylvania – General Medicine/Surgical Unit
- Hospital of the University of Pennsylvania – Labor and Delivery Unit

TECHNICAL SKILLS

Excel | R | SAS | Python | STATA | SQL | Sparklyr | LaTeX | REDCap | E-Prime | Epic | Gitlab | FSL | Overleaf