

# Zelos Zhu

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## WORK EXPERIENCE

### New York State Psychiatric Institute

Aug. 2019 – Present

*Research Assistant, Department of Mental Health Data Science*

*New York, NY*

- Developing R Package to implement parallel processing when conducting permutation tests for neuroimaging data, documentation available at <https://zeloszhu.com/parPerm>
- Conducting simulations to isolate interaction effect through use of permutation test
- Investigating new methods of interpretable machine-learning models

### New York Presbyterian Hospital

May. 2019 – Sep. 2019

*Research Assistant, Department of Radiology*

*New York, NY*

- Applied neural network to assess quantification of breast MRI fibroglandular tissue (FGT) and background parenchymal enhancement (BPE)
- Evaluated the global trend in artificial intelligence (AI)-based research productivity involving radiology and its subspecialty disciplines
- Developed website and ANKI deck as education materials for the study of breast cancer and breast MRI

### University of California San Francisco

Jun. 2017 – Jul. 2018

*Data Analyst, Breast Care Center*

*San Francisco, CA*

- Utilized cluster analysis to identify molecular subtypes of invasive lobular carcinoma in patients enrolled in the I-SPY2 Trial
- Studied the use of Blueprint subtypes as a predictor of response to HER2 targeted therapies
  - Topic won Best Poster at UCSF Breast Oncology Program Scientific Retreat

### SCAN Health Plan

Jan. 2017 – Jun. 2017

*Data Analyst Intern*

*Long Beach, CA*

- Discovered key drivers behind voluntary disenrollment and factors that determine Net Promoter Score

### Doctor Evidence

Jul. 2016 – May. 2017

*Clinical Evidence Analyst*

*Santa Monica, CA*

- Extracted data and information from clinical research publications into a digital template. Publications included: meta-analyses, systematic reviews and summary papers on variety of disease states

## EDUCATION

### Columbia University Mailman School of Public Health

Expected May. 2020

*Biostatistics, M.S.*

*New York, NY*

- Graduate Teaching Assistant Fall 2018
  - Data Science I
  - Biostatistics Methods I

### University of California, Los Angeles

Jun. 2017

*Statistics, B.S.*

*Los Angeles, CA*

*Mathematics, Minor*

## SKILLS & INTERESTS

- **Skills:** R, Python, SQL, Git, Tableau
- **Interests:** Making coldbrew; Basketball; Baseball; Bouldering; Fishing