# Lin F. Zou

**linfengzou.github.io**


CONTACT INFORMATION

lin_zou@brown.edu


RESEARCH INTERESTS

Biostatistics, Complex predictive modeling, Multivariate methods, Statistical/machine learning

STATISTICAL SOFTWARE

R, Python, SAS

EDUCATION

**Brown University**, Providence, RI
**ScM** Biostatistics, May 2022
GPA: 4.0/4.0
Advisor: Stavroula Chrysanthopoulou

**University of Minnesota – Twin Cities**, Minneapolis, MN
**B.S.** Statistical Science, May 2020
GPA: 3.589/4.0
Advisor: Jessica Nielson

PUBLICATION

**Zou L.**, Pierce B., Nielson J. (2020). A Multi-modal Assessment of Clinical Predictors for Traumatic Brain Injury Endpoints. *Journal of Neurotrauma*.

PROJECTS

Group Project. (2020). R Shiny App: COVID-19 in North America. *PHP 2560 Final Project*.

**Zou L.** (2020). Exploratory Time Series Analysis of COVID-19 in Rhode Island and the United States. *PHP 2560 Midterm Project*.

Group Project. (2020). Assessment of Clinical Predictors for Breast Cancer Diagnosis Using Statistical Learning Methods. *PHP 2514 Final Project*.

Group Project. (2020). A Comparison of Parametric and Nonparametric Tests of Location for Non-normal Data. *PHP 2515 Final Project*.

**Zou L.** (2020). Survival Analysis of Skin Cutaneous Melanoma Data Retrieved from The Cancer Genome Atlas Program. *Undergraduate Capstone Project*.

## WORK EXPERIENCE

**COVID-19 Agent-Based Model Research Group** Sept. 2020 – Present
*Graduate Research Student* *Providence, RI*

- Conducting a comprehensive literature review on time series and agent-based modeling of COVID-19
- Created an R Shiny app for exploratory time series analysis
- Weekly meetings with advisor and research group to discuss findings from the ongoing literature review

**Nielson Computational Psychiatry Lab** Sept. 2018 – May 2020
*Undergraduate Research Student* *Minneapolis, MN*

- Used R for factor analysis and ordinal logistic regression on TRACK-TBI pilot study dataset
- Optimized the TDAmapper R package to generate topological networks for TBI data from the TRACK-TBI pilot study dataset
- Weekly meeting with advisor to discuss progress on the manuscript and understanding of research literature

**Colorado Summer Institute in Biostatistics** June 2019 – July 2019
*Undergraduate Research Student* *Aurora, CO*

- Completed two courses at University of Colorado School of Public Health: Introduction to Biostatistics Methods, Introduction to Statistical Theory
- Created R Shiny app for visualizing large biomedical dataset

## AWARDS

Dean's List Fall 2018/Spring 2019/Spring 2020
Nomination for Buehler Memorial Scholarship Spring 2019

## GRADUATE COURSES

PHP 2515 Fundamentals of Probability and Statistical Inference
PHP 2514 Applied Generalized Linear Models
PHP 2560 Statistical Programming with R
PHP 2516 Applied Longitudinal Data Analysis (Spring 2021)
PHP 2517 Applied Multilevel Data Analysis (Spring 2021)
PHP 2650 Statistical Learning and Big Data (Spring 2021)
PHP 2561 Methods in Informatics and Data Science for Health (Spring 2021)

UNDERGRADUATE COURSES

STAT 5303 Designing Experiments
STAT 4893W Communication for Statisticians
STAT 5601 Nonparametric Methods
STAT 5401 Applied Multivariate Methods
STAT 5302 Applied Regression Analysis
STAT 5421 Analysis of Categorical Data
STAT 4052 Introduction to Statistical Learning
STAT 4051 Applied Statistics I
STAT 5102 Theory of Statistics II
STAT 5101 Theory of Statistics I
STAT 3701 Introduction to Statistical Computing
STAT 3032 Regression and Correlated Data

MATH 4603 Advanced Calculus I
MATH 4242 Applied Linear Algebra
MATH 2243 Linear Algebra and Differential Equations
MATH 2263 Multivariable Calculus

CSCI 3003 Introduction to Computing in Biology
CSCI 1113 Introduction to C/C++

HINF 5394 Directed Research
ABUS 4023W Communicating for Results
PUBH 3350 Epidemiology: People, Places, Disease