

Amelia H. Tran

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EDUCATION

University of Pennsylvania

M.S. in Biostatistics

Philadelphia, PA

Expected 2023

Mount Holyoke College

B.A. in Statistics, Data Science, *Summa Cum Laude*

South Hadley, MA

May 2021

RESEARCH EXPERIENCE

University of Pennsylvania

Graduate Research Assistant

Philadelphia, PA

Sept 2021 –

Supervisor: Dr. Douglas Schaubel, Department of Biostatistics and Epidemiology

- Peruse literature in recent developments of novel statistical methodologies for time-to-event and longitudinal data in end-stage kidney and liver disease related studies
- Perform data cleaning, data description, and formal statistical analysis to predict delayed graft function (DGF) and time to graft failure in kidney transplantation for different transplant centers

Institute for Pure and Applied Mathematics, UCLA

Applied Maths Research Fellow

Los Angeles, CA

June 2021 – Aug 2021

Supervisors: Drs. Laurent White (AMD Research) and Kyung Ha (UCLA)

- Worked for Advanced Micro Devices to develop physics-informed neural networks models in Python using Keras and TensorFlow to simulate the wave equation efficiently
- Designed an optimal network architecture by embedding physics constraints into objective function, varying network parameters, and sampling unlabeled data points to enhance extrapolation

Mount Holyoke College

Undergraduate Research Assistant

South Hadley, MA

Aug 2020 – May 2021

Supervisor: Dr. Marie Ozanne, Department of Mathematics and Statistics

- Conducted literature review and incorporated the cirrhosis project into an honors thesis
- Modeled the progression of neglected tropical disease Canine Visceral Leishmaniasis
- Investigated the effects of lamb massage with Wilcoxon's nonparametric tests

Supervisor: Dr. Evan Ray, Department of Mathematics and Statistics

June 2019 – May 2020

- Contributed to the *ncopula* package in R to calculate the cumulative distribution function, probability density function, log-likelihood to develop hierarchical Archimedean copulas
- Carried out unit tests to examine the package functionality and provided reproducible documentation

Memorial Sloan Kettering Cancer Center

Quantitative Sciences Undergraduate Research Fellow

New York City, NY

June 2020 – Aug 2020

Supervisor: Dr. Audrey Mauguen, Department of Epidemiology and Biostatistics

- Evaluated association between biomarker bilirubin and survival in liver cirrhosis with different approaches for censored data, i.e. Cox Proportional Hazards, Time-Dependent Cox and Joint Model
- Implemented algorithms in R to extract time interval endpoints and perform missing data imputation

TECHNICAL SKILLS

Statistical Software: R, Stata, SAS, SPSS

Programming: Python, Java, SQL