Amelia Tran

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EDUCATION

Mount Holyoke College, South Hadley, MA — *Bachelor of Arts* (expected May 2021)
Major: **Statistics** — **GPA**: **3.83**/4.0
Relevant Coursework: Real Analysis, Linear Algebra, Multivariable Calculus, Probability, Advanced Data Analysis, Mathematical Statistics, Applied Regression, Nonparametric Statistics, Discrete Mathematics, Experimental Design, Data Science, Algorithms, Data Structures, Object-Oriented Programming in Java

HONORS/AWARDS

Best Virtual Video Presentation by Electronic Undergraduate Statistics Research (eUSR)	Nov 2020
Statistics Prize in honor of George Whitfield Cobb	May 2020
Saintonge Prize for superior achievement in French	May 2019
Sylvia Sherk Hubbell Class of 1939 Book Prize honor for excellence in French	May 2018
Sylvia Sherk Hubbell Class of 1939 Summer Scholarship	May 2018

RESEARCH EXPERIENCE

Research Assistant, Mount Holyoke College, MA — Aug 2020 – Present
Supervisor: Professor Marie Ozanne in the Department of Mathematics and Statistics
- Write up the study of the association between longitudinal biomarkers and overall survival as an honors thesis
- Conduct a literature review on statistical research in Primary Biliary Cirrhosis
- Explore elastic net regularization for variable selection in Survival Analysis

Research Fellow, Memorial Sloan Kettering Cancer Centre, NY — Jun 2020 – Aug 2020
Supervisor: Doctor Audrey Mauguen in the Department of Biostatistics and Epidemiology
- Studied the association between longitudinal biomarkers and overall survival in Primary Biliary Cirrhosis with Cox Proportional Hazards Model, Time-Dependent Cox Model and Joint Model
- Produced data visualizations with Kaplan-Meier survival curves and spaghetti plots
- Attended weekly discussion seminars in research ethics and lectures on quantitative sciences

Research Assistant, Mount Holyoke College, MA — Jun 2019 – May 2020
Supervisor: Professor Evan Ray in the Department of Mathematics and Statistics
- Contributed to the *ncopula* package to measure the cumulative distribution function, probability density function, and maximum-log likelihood estimation of Archimedean copulas
- Implemented object-oriented programming with S3 classes in R to represent nested Archimedean copula

EXTRACURRICULAR/VOLUNTEER EXPERIENCE

Co-President, French Club, Mount Holyoke College	Apr 2020 – Present
Board Member, HackHolyoke 2020, Mount Holyoke College	Feb 2020 – Present
Team Lead, Data Cum Product, Viet-Abroader, Vietnam	Jul 2020 – Present
Board Member, The Cactus Organization, Vietnam	May 2016 – May 2018

SKILLS

Programming languages: R, Python, Java, MATLAB, Bash, SPSS, SQL
Technologies: Eclipse, Git, LaTeX, Jupyter Notebook