

Kenny Chen

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EDUCATION

Amherst College Amherst, MA

May 2022

BA Magna cum Laude, Double major in Statistics and Mathematics

Thesis: "A Model-Free Dependence Measure for High-Dimensional Contingency Tables via the Checkerboard Copula and its Potential as a Goodness of Fit Measure"

Advisor: Dr. Shu-Min Liao

RESEARCH EXPERIENCE

Amherst College Biology Department Amherst, MA

Sep 2021 – May 2022

Research Assistant in the Purdy Microbiology Lab

- Reproducing Novogene workflow of RNA-Sequencing of bacteria (*Vibrio Cholera*), using FastQC, Bowtie2, and other bioinformatic tools.
- Assisting lab with various computing and data analysis tasks.

Injury Research Training Program (INSIGHT) Seattle, WA

Jun 2021 – Aug 2021

Summer Intern

- Explored causes of anxiety among burn survivors admitted at Harborview Medical Center as part of the burn model system.
- Employed R and Stata to wrangle and interpret Electronic Health Record data.

Harvard Summer Program in Epidemiology and Biostatistics Boston, MA

Jun 2021 – Jul 2021

Summer Intern for Dr. Jaime Hart and Dr. Hari Iyer

- Researched county level association between green space and inadequate sleep prevalence using publicly available data from the CDC, Census, and Google Earth Engine.
- Attended comprehensive introduction classes on Epidemiology and Biostatistics.

Data Science WAV (Wrangle, Analyze, Visualize) Amherst, MA

Feb 2020 – Nov 2020

Data Science Intern (PI: Dr. Nicholas Horton)

- Investigated over 6 million observations from ValleyBikes, a local community bikeshare organization, as part of the NSF's Data Science Corps program to address community-based problems through data science.
- Created dynamic visualizations using R, Shiny, Tidyverse, and Leaflet and analyzed bike paths and trips to study bike patterns to suggest new station locations.

RELEVANT WORK EXPERIENCE

Amherst College Department of Mathematics and Statistics Amherst, MA

Sep 2020 – May 2021

Grader

- Graded problem sets for Professor Liao's Intermediate Statistics class with 25-50 people each semester.
- Communicated with professor to ensure timely and fair grading and wrote weekly reports on status of students.

Our Children Oregon Portland, OR

Jun 2020 – May 2021

Communications and Data Analyst Intern

- Collected data on childhood wellbeing indicators for the KIDSCOUNT data book for the Annie E. Casey foundation.
- Researched childhood immunization rates in Oregon and created infographics to support upcoming legislation.

Amherst College Department of Mathematics and Statistics Amherst, MA Jan 2020 – Mar 2020
Academic Intern

- Created introductory modules of the tidyverse package in R to synthesize key data science information.

TEACHING & MENTORING

Inspirit.AI Palo Alto, CA June 2022 – Present
Instructor

- Led multiple 10 / 20 day sessions introducing 5th-12th grade students to fundamental concepts in machine learning and AI.

Amherst College Moss Quantitative Center Amherst, MA Sep 2021 – May 2022
Statistics & Data Science Fellow

- Provide drop-in hours for introductory & intermediate statistics and R/RStudio.

Youth Leadership Summit Chicago, IL Jul 2019 – Dec 2019
Mentor

- Supported 6 high-achieving low-income students in college applications and essays.

TECHNICAL SKILLS

Java, R, Python, SQL, LaTeX; Exposed to: Julia, HTML, CSS, ArcGIS, Stata

MEMBERSHIPS

Mu Sigma Rho 2021 – Present
American Statistical Association 2021 – Present

PRESENTATIONS

INSIGHT, “The Association Between Severe Pain in First Week of Burn Admission and Anxiety”, August 2021.

Harvard Summer Program in Epidemiology and Biostatistics Presentation, “Association Between Green Space and Inadequate Sleep”, July 2021.

DSC-WAV Poster Session, “Exploration of ValleyBikes”, Sep 2020.

HONORS AND AWARDS

Gates Scholarship	2018
Meiklejohn Fellow	2018
The Robert H. Breusch Prize	2022
The Walker Award for Mathematics and Statistics	2022
The Amherst College Five College Statistics Award	2022
Amherst College Post-Baccalaureate Fellowship	2022
Honorable Mention in the Fall 2021 Undergraduate Statistics Research Project	2021