## Jasper Yang

Email: yangjasp@grinnell.edu GitHub: //yangjasp LinkedIn: //jasper-yang

Phone: (617) 775-8066 Personal Website: //yangjasp-personalsite.netlify.app

Research interests Biostatistics, survey sampling, electronic health records, environmental health,

ecology of infectious disease

Education Grinnell College Grinnell, Iowa

BA in Biology, Statistics concentration Exp. Graduation December 2021

GPA: 3.95

Research experience Perelman School of Medicine at the University of Pennsylvania,

Department of Biostatistics, Epidemiology, and Informatics

Research Assistant, Mentor: Pamela Shaw Sep. 2020 – Present

 Conducted statistical analysis of data collected from electronic health records (EHR) to investigate associated with the competing risks of death and discharge among patients hospitalized with COVID-19. Methods included Cox proportional hazards regression and multivariable Poisson regression.

- Developed the R package optimall for efficient multi-wave sampling in R. Collaborated with a research group funded by PCORI grant HSRP20181639, which studied measurement error in the collection of electronic health records.
- Assisted statistical team of RCT for convalecent plasma COVID-19 treatment.

### **Grinnell College Biology Department**

Research Assistant, Mentor: Vida Praitis

*May 2020 – August 2020* 

- Led statistical analysis of scRNA-seq data in *C. elegans embryogenesis* using R with Bioconductor.
- Presented findings in complete research paper.

## **Boston University School of Public Health, Summer Institute in Biostatistics**

Trainee, Program Directors: Anita DeStefano and June 2019 – July 2019

Jacqueline Milton

- Conducted and presented a collaborative research project using PLINK software to analyze the GAW data set.
- Analyzed data collected from the Framingham Heart Study and Jackson Heart Study using SAS and R.

### **Grinnell College Global Learning Program**

Mentors: Shannon Hinsa and Susan Ferguson

January 2018 – July 2018

• Travelled to Costa Rica, Cuba, and Denmark to gather data for individual research project, a comparative analysis of the EMS systems of Costa Rica, Cuba, and the U.S.

#### **Publications**

### **Under Preparation**

- **2.** Shaw PA, **Yang JB**, Mowery DL, Schriver ER, Mahoney KB, Bar KJ, Ellenberg SS. *Determinants of COVID-19 Hospital Outcomes in the University of Pennsylvania Health System*.
- **1. Yang JB**, Shaw PA. Efficient Multi-Wave Sampling with the R Package optimall.

#### Presented Abstracts

**1.** Shaw PA, **Yang JB**, Mowery DL, Schriver ER, Mahoney KB, Ellenberg SS, Bar KJ. *Determinants of COVID-19 Hospital Outcomes in a Large Pennsylvania Health System.* Presented at the Conference of Retroviruses and Opportunistic Infections 2021 by Pamela Shaw.

## Other relevant experience

#### **Emergency Medical Technician**

October 2015-June 2017

- State certified EMT-basic in Massachusetts.
- Responded to emergency calls in Bolton, MA as a volunteer.

#### Presentations

# **Determinants of COVID-19 Outcomes in the University** *March 2021* **of Pennsylvania Health System**

University of Pennsylvania Department of Biostatistics, Epidemiology, and Informatics Research Day 2021

#### **EMS** in the Americas

April 2019

Grinnell College Undergraduate Research Symposium

Software	<b>optimall:</b> R package to efficiently conduct multi-wave sampling under two- or three-phase designs. Accompanied by a Shiny app for viewing the effect of	
	splitting strata on optimum sample allocation. Package currently available or	n
	Github and expected to be submitted to CRAN soon.	
Honors and	CoSIDA Academic All-America 2020	0
scholarships	NHLBI Summer Institute in Biostatistics Scholarship 2019	9
	Grinnell College Dean's Scholarship 2017	7
Computing Skills	R, RMarkdown, Bioconductor, Git, Latex, SAS (intermediate).	
Memberships	International Biometrics Society, Eastern North March 2020 – Present America Region	t
	Grinnell College Biology Student Educational  August 2020 – Present Policy Committee	t