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Education	University of Washington	Seattle, WA		
	PhD in Biostatistics	September 2023 - Present		
	University of Essex	Colchester, UK		
	MSc in Statistics	September 2022 - August 2023		
	Thesis: Two-phase sampling designs for multiple outcomes of interest			
	Grinnell College	Grinnell, Iowa		
	BA in Biology, Statistics concentration	August 2017 - December 2021		
Research experience	Kaiser Permanente Washington Health Research Institute			
*	Research Assistant, Mentor: Pamela Shaw	June 2021 – August 2021,		
		January 2022 – August 2022,		
		August 2023 – Present,		
	• Led research project applying existing tw measurement error to setting where mul	1 1 0		

- This work included conducting simulations, presenting at lab meetings, and preparing manuscripts.
- · Worked on designing and implementing statistical analysis plan for Multicultural Healthy Diet to Reduce Cognitive Decline (MHD)

## Perelman School of Medicine at the University of Pennsylvania, Department of Biostatistics, Epidemiology, and Informatics

Research Assistant, Full-time, Mentor: Pamela Shaw Sep. 2020 – June 2021

- · Conducted statistical analysis of data collected from electronic health records (EHR) to investigate risk factors associated with the competing risks of death and discharge among patients hospitalized with COVID-19. Methods included Cox proportional hazards regression, multi-state survival models, 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 andJune 2019 – July 2019Jacqueline MiltonJune 2019 – July 2019

- 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 – June 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.

Other relevant **Emergency Medical Technician** *October 2015-June 2017* experience • State certified EMT-basic in Massachusetts. • Responded to emergency calls in Bolton, MA as a volunteer. Publications **Published Manuscripts** 1. Bar K, Shaw P, Choi G, Aqui N, Fesnak A, Yang JB, Soto-Calderon H, Grajales L, Starr J, Andronov M, Mastellone M, Amonu C, Feret G, DeMarshall M, Buchanan M, Caturla M, Gordon J, Wanicur A, Monroy MA, Mampe F, Lindemuth E, Gouma S, Mullin A, Barilla H, Pronina A, Irwin L, Thomas R, Eichinger R, Demuth F, Prak E, Pascual JL, Short W, Elovitz M, Baron J, Meyer N, Degnan K, Frank I, Hensley S, Siegel DL, Tebas P. A randomized, controlled, phase 1 study of convalescent plasma for individuals hospitalized with COVID-19 pneumonia. Journal of Clinical Investigation, (2021). https://doi.org/10.1172/JCI155114 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. PlosOne, (2022). https://doi.org/10.1371/journal.pone.0268528.

### Submitted Manuscripts

**3. Yang JB**, Shepherd BE, Lumley T, Shaw PA. *Efficient Multi-Wave Sampling with the R Package optimall* (Submitted). Pre-print arXiv:2106.09494.

#### 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.* Conference of Retroviruses and Opportunistic Infections, March 2021.

**2.** Yang JB, Kopf SN, Naik SM, Praitis V. Investigating mechanisms of cell migration in C. elegans through a large single-cell RNA expression dataset. International C. elegans Conference, June 2021.

Presentations	Design and Implementation of Multi-Wave SamplingAugust 202Surveys in RAmerican Statistical Association Joint Statistical Meetings (JSM) 2021
	<b>Efficient multi-wave sampling with the R package 'optimall'</b> <i>July 202</i> UseR! Conference 2021
	<b>A comparative Transcriptomic Analysis of Cell Migration</b> <i>June 202</i> <b>in C. elegans</b> International C. elegans Conference 2021
	<b>Determinants of COVID-19 Outcomes in the University</b> March 202 <b>of Pennsylvania Health System</b> University of Pennsylvania Department of Biostatistics, Epidemiology, and In formatics Research Day 2021
	EMS in the AmericasApril 201Grinnell College Undergraduate Research Symposium
Software	<b>optimall:</b> An R package to efficiently conduct multi-wave sampling un der two- or three-phase designs. Accompanied by a Shiny app for view ing the effect of splitting strata on optimum sample allocation. Package cur rently available on Github (https://github.com/yangjasp/optimall) and CRAN (https://CRAN.R-project.org/package=optimall).
Honors and scholarships	NSF Graduate Research Fellowship 202

	CoSIDA Academic All-America Player of the Year, Division III Men's Soccer	2021
	United Soccer Coaches Scholar All-American	2021
	<b>Honor G Scholar Award</b> <i>Awarded by Grinnell College to student-athlete with the</i> <i>highest cumulative GPA</i>	2021
	<b>Morgan Taylor '26 Award</b> Awarded by Grinnell College to most outstanding athlete in a team sport	2021
	CoSIDA Academic All-American, Men's Soccer (3x)	2019, 2020, 2021
	NHLBI Summer Institute in Biostatistics Scholarship	2019
	Grinnell College Dean's Scholarship	2017
Computing Skills	R, RMarkdown, Python, Git, Latex.	