Trevor J. **Manz**

50 Evergreen St, Jamaica Plain, MA 02130

+1 (715) 828-9308 | trevor.j.manz@gmail.com | trevor-manz

Education

Harvard Medical School — ***Boston, MA, USA***

PhD Candidate | Department of Bioinformatics and Integrative Genomics | NSF Graduate Research Fellow — *August 2019*

Cambridge University — ***Cambridge, UK***

MPhil in Computational Biology | Department of Applied Mathematics and Theoretical Physics — *October 2018 - August 2019*

Kenyon College — ***Gambier, OH, USA***

BA with Distinction in Biochemistry | Member of Phi Beta Kappa | GPA: 3.96/4.0 — *August 2013 - May 2017*

Independent Research

Precision VISTA, Harvard Medical School — ***Boston, MA, USA***

Post-Graduate Research Fellow | PI: Nils Gehlenborg — *May 2018 - October 2018*

- Constructed a web-based patient/physician-facing interactive visualization tool for exploring mobile health and survey data.
- Bundled microservices into Docker containers and leveraged a tech stack including React, Redux, Flask, D3, and MySQL.
- Collaborated with physicians and faculty at University of North Carolina through a joint NSF/NIH Big Data grant.

Novel Protein-Protein Interactions, Donald Danforth Plant Science Center — ***St. Louis, MO, USA***

NSF-Funded REU Fellow | PI: Sona Pandey — *May 2016 - August 2016*

- Characterized the divergent roles of G-protein subunits in key plant physiological traits via combination knockout mutants.
- Performed statistical analysis and visualized results in R.

Genetic Engineering, The Ohio State University Comprehensive Cancer Center — ***Columbus, OH, USA***

Researcher in Genetically Engineered Mouse Modeling Core | PI: Vincenzo Coppola — *May 2015 - August 2015*

- Developed targeting strategies to yield transgenic mice utilizing CRISPR/Cas9 and other Cas9-related biotechnologies.
- Generated mouse models for research projects throughout OSUCCC.

Technical Skills

Languages R, Python, JavaScript, Linux/UNIX

Libraries & Frameworks tidyverse, numpy, pandas, D3.js, Preact, React, Redux, Node.js

Teaching & Work Experience

Math & Science Skills Center, Kenyon College — ***Gambier, OH, USA***

Lead Tutor & Student Director — *January 2015 - May 2017*

- Chaired a faculty-integrated peer tutoring center, scheduling tutors for over 1,500 student visits per semester.
- Served as Lead Tutor for *Energy in Living Systems - Intro Biology*, *Organic Chemistry I*, and *Organic Chemistry II*, coordinating with faculty instructors and leading review sessions one-on-one and in large groups.

Department of Biology, Kenyon College — ***Gambier, OH, USA***

Teaching Assistant, Experimental Biology — *August 2015 - May 2016*

- Supported faculty and coordinated scientific writing and programming (R) workshops for students outside of class.

Grants & Awards

NSF Graduate Research Fellowship — *Aug 2018 - Aug 2023*

NCAA Postgraduate Scholarship — *Aug 2018 - Aug 2019*

Barry M. Goldwater Scholarship — *June 2016 - June 2017*

Elmer Graham Endowed Scholarship — *May 2016 - June 2017*

Kenyon College Man of the Year — *June 2017*

NCAC Don Hunsinger Award — *June 2017*

Google Cloud Academic All-American — *May 2015, 2016, 2017*

Marshall Scholarship Finalist — *Nov 2016*

Extracurricular

Varsity Swimming Team, Kenyon College — ***Gambier, OH, USA***

Team Captain | NCAA Division III Team National Champion | 23-time NCAA All-American | NCAA Record Holder — *August 2013 - May 2017*

WKCO Science Radio Broadcast — ***Gambier, OH, USA***

Co-Host | Explored topics in new scientific literature. — *January 2017 - May 2017*