

Gabriella “Gabby” Novak

(713) 252-9336 • gnovak@u.rochester.edu

ganovak.netlify.com • github.com/ganovak • orcid.org/0000-0002-1674-9396

EDUCATION

University of Rochester

Bachelor of Science in Statistics, Minor in Computer Science

Rochester, NY

Anticipated May 2022

- GPA: 3.86/4.00
- Phi Beta Kappa Suzanne J O'Brien Book Award: Recognized for outstanding scholarly achievement, humanistic values, contribution to co-curricular activities, and leadership potential.

EXPERIENCE

Biostatistics Lab at Johnson Space Center, NASA

NASA Intern

Houston, TX

June 2020 – August 2020

- Articulated guidance on best practices for reproducible research distributed throughout NASA's Biomedical Research and Environmental Sciences Division
- Developed a R package for internal NASA use to support reproducibility efforts
- Conducted thorough literature review on current best practices for reproducible research
- Reviewed and provided recommendations on computational tools to support reproducible work

University of Texas School of Public Health

Undergraduate Intern

Houston, TX

June 2019 – August 2019

- Processed complex survey data, fit models, and created figures and maps in R for multiple geospatial analysis projects
- Presented on project status and shared techniques with other team members at weekly work group meetings

University of Rochester

Statistics Teaching Assistant

Rochester, NY

January 2019 – Present

- Strengthen students' grasp of material taught in lecture including R coding and applied statistical methods
- Assist students in understanding errors and debugging code during lecture and additional office hours

University of Rochester

Event Support Senior Technician

Rochester, NY

April 2019 – Present

- Pivoted to operating and troubleshooting installed audio-visual technology for asynchronous and synchronous remote learning during COVID-19 pandemic
- Operate all technical aspects of university events with special expertise in lighting
- Plan and program aesthetically pleasing lighting in collaboration with clients that compliments their production
- Lead other technicians in equipment and furniture set up and strike
- Manage technical difficulties and client requests effectively and efficiently

Event Support Basic Technician

August 2018 – April 2019

- Operated sound, lighting, and projection equipment during concerts and other special events and presentations

SPECIALIZED COURSEWORK

Tools for Data Science

DSCC201

University of Rochester

Spring 2021

- Introduction to commonly used tools, hardware, and infrastructure in data science through hands-on including the Linux environment, cluster and parallel computing, source code management, and languages and packages for statistical analysis, visualization, and machine learning

Data Structures & Algorithms

CSC172

University of Rochester

Spring 2021

- Implemented infix calculation with the Shunting-Yard Algorithm; Huffman compression; mapping tasks such as Dijkstra's shortest path algorithm, Prim's algorithm for minimum spanning trees, and map graphics; and all underlying data structures in Java

Statistical Computing in R

STT276

University of Rochester

Spring 2019

- Prepared a dynamic report on ride-share data in Chicago including exploratory analysis and hypothesis generation and confirmation in R Markdown

LEADERSHIP ACTIVITIES

University of Rochester

Rochester, NY

Technical Director of The Opposite of People Theater Company (TOOP)

December 2018 – December 2019

- Organized and directed work calls, load in, and strike
- Facilitated communication between members of a production team
- Advanced improvement projects including storage inventory and organization and design archiving

CERTIFICATIONS

Human Research for Biomedical Researchers

CITI Program

June 2019 – June 2022

Social and Behavioral Research Best Practices for Clinical Research

CITI Program

June 2019 – June 2022

SKILLS

- Proficient in R, RMarkdown, and Java
- Competent in Git/GitHub, Python, LaTeX typesetting, and Microsoft Office