

# Gabriella “Gabby” Novak

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## 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 – December 2020*

- Strengthened students' grasp of material taught in lecture including R coding and applied statistical methods
- Assisted 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*

- Pivot 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

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### 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

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