Gabriella "Gabby" Novak

(713) 252-9336
gabriellanovak00@gmail.com
ganovak.netlify.app
github.com/ganovak

PERSONAL STATEMENT

The environment that best supports both students' learning and wellbeing builds up their confidence in their abilities and agency. Each student should be nurtured, met where they are at, and their individual accomplishments celebrated by both authority figures and peers. The goal is for students to gain confidence not only in the material, but in their ability to apply and extend their knowledge, to problem solve, and to learn the skills they will need throughout their lives.

EDUCATION

Statistics Bachelor of Science cum laude with high distinction, Minor in Computer Science
University of Rochester
Rochester, NY
May 2022
- GPA: 3.85/4.00
- Phi Beta Kappa Iota Chapter of New York Member
- Suzanne J O'Brien Book Award Recipient

SKILLS

- Java
- Python
- R and RMarkdown
- Curriculum development and lesson planning
- Blackbaud
- Git and GitHub
- LaTeX Typesetting
- Microsoft Office

COURSES TAUGHT

- Statistics Advanced
- Computer Science: Java, Advanced
- Principles of Technology and Design

WORK EXPERIENCE

Upper School Math & Technology Teaching Assistant
The Emery/Weiner School
Houston, TX
2022– Present
- Develop and implement curriculum to engage students in data analysis employing data science and traditional statistical skills in tandem in a senior-level advanced statistics class
- Collaborate with colleagues to design and execute lesson plans for all high school levels to facilitate the development of computational thinking, define responsible use of technology, and design and implement algorithms in both Python and Java
- Advise and support 12 freshman by acting as a resource, facilitating experiential and service learning opportunities, and leading programing to holistically support students in both academic and social-emotional spheres

NASA Intern
Biostatistics Lab at Johnson Space Center, NASA
Houston, TX
Summer 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
- Reviewed and provided recommendations on computational tools to support reproducible work

Undergraduate Intern
University of Texas School of Public Health
Houston, TX
Summer 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

Statistics Teaching Assistant
University of Rochester
Rochester, NY
2019 - 2022
- 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
- Grade and provide thorough feedback on student work

Event Support Basic / Senior Technician
University of Rochester
Rochester, NY
2018 – 2022
- 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 and provide training to technicians in equipment set up, strike, and use and client interaction
- Manage technical difficulties and client requests effectively and efficiently

INTERESTS

Technical Theater
- Experience in all aspects of theater tech including lighting, sound, and set design and construction as well as stage management on professional and extracurricular levels throughout high school and college
- Served as technical director of The Opposite of People Theater Company (2019) supporting and facilitating communication between members of a production team, organizing and directing work calls, and advancing club improvement projects

Coding
- Dedicated to personal coding projects, primarily in R, to explore capabilities and features of the language and keep my skills sharp in an exciting and engaging manner

Sewing & Garment Design and Creation
- Design and sew outfits to my specifications and measurements
- Skilled in garment alternation and repair