

# Gabriella “Gabby” Novak

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## EDUCATION

### University of Rochester

*Bachelor of Arts in Statistics*

*Computer Programming, Actuarial Sciences*

- GPA: 3.85 out of 4.00

- Phi Beta Kappa Suzanne J O'Brien Book Award: Recognizes 16 members of the previous year's first-year class who have been nominated by university faculty and staff for demonstrating outstanding scholarly achievement, humanistic values, contribution to co-curricular activities, and leadership potential.

**Rochester, NY**

*Anticipated May 2022*

### Emery/Weiner School

*High School Diploma*

- GPA: 4.00 out of 4.00

- Socrates Award: Awarded to the valedictorian in recognition of their pursuit of knowledge and academic excellence
- Rubber Ducky Award: Provided meaningful contributions to the Emery/Weiner technical theater department during all years of attendance at the school
- National Honor Society Member

**Houston, TX**

*June 2018*

## EXPERIENCE

### University of Rochester

*STT276 Teaching Assistant*

- Strengthen students' grasp of material taught in lecture including R coding for data wrangling and table and figure creation using base functions and external libraries, as well as results presentation with R Markdown
- Assisting students in understanding errors and debugging code both during lecture and additional office hours

*STT212 Teaching Assistant*

- Led two recitations per week for an introductory statistics course, teaching basic R coding and reviewing material and answering outstanding questions

**Rochester, NY**

*January 2020 – Present*

*January 2019 – December 2019*

### University of Texas School of Public Health

*Undergraduate Intern*

- Collaborated with Dr. Cici Bauer (Department of Biostatistics) and a team of graduate students on multiple geospatial analysis projects
- Carried out data processing, modeling, and figure creation including mapping
- Compiled reports to present to team members as well as other UT Health faculty
- Attended weekly work group meetings to present on project status and share techniques with other group members

**Houston, TX**

*June 2019 – August 2019*

### University of Rochester

*Event Support Senior Technician*

- Operate all technical aspects of university events with special expertise in lighting
- Collaborate with clients to plan and program aesthetically pleasing lighting 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*

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

**Rochester, NY**

*April 2019 – Present*

*August 2018 – April 2019*

## RELEVANT COURSEWORK

### Introduction to Computer Science

*CSC171*

- Project-based introduction to computer science in Java language with emphasis on algorithmic thinking, computational problem solving, and concepts and methods central to a continuing computer science curriculum
- Topics included flow control, object oriented program design including principles of polymorphism and inheritance, file I/O, collections, and basic swing graphics
- Required completion of several open-ended design projects where students implemented gameplay, logic control, and user interface for TTY and later, graphics-based games

**University of Rochester**

*Spring 2020*

**Introduction to Probability***MTH/STT201***University of Rochester***Spring 2020*

- Introduction to basic probability theory including counting, random variables and expectation, discrete and continuous distributions, independence, named distributions (with emphasis on binomial, normal, and Poisson), and limit theorems
- Coursework included a mixture of application problems and mathematical proofs

**Introduction to Categorical Data Analysis***STT218***University of Rochester***Fall 2019*

- Introduction to statistical methods used to analyze categorical data including hypothesis testing for two and three way contingency tables, logit and probit regression including model selection and goodness of fit, and methods for ordinal and paired data

**Introduction to Programming***CSC161***University of Rochester***Fall 2019*

- Applied introduction to Python language including conditionals, iteration, functions, classes, data collection manipulation, object-oriented programming, and graphics through weekly problem-solving labs and collaborative workshops
- Culminated in the creation of a stock buying simulator which took in Yahoo! Finance data, wrangled it into a usable format, and used it to inform two buy/sell algorithms and compare their results

**Statistical Computing in R***STT276***University of Rochester***Spring 2019*

- Introduction to statistical computing using R in the RStudio environment including integrating R output into reports using RMarkdown
- Focused on data manipulation and graphic building with tidyverse functions and function writing

**Applied Statistics II***STT216***University of Rochester***Spring 2019*

- Continuation of introductory course focusing on non-parametric testing, ANOVA models, multiple comparisons, multiple linear regression, and binary logistic regression in Minitab

**Applied Statistics I for the Biological and Physical Sciences***STT212***University of Rochester***Fall 2018*

- Introductory level, algebra-based, frequentist statistics course including the appropriate use of numerical and graphical summaries, confidence intervals, and hypothesis tests

**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 Microsoft Excel
- Competent in Java, Python, Microsoft Office (including Microsoft Access), and LaTeX typesetting
- Ability to develop functions and other coding procedures for use in an academic environment and defend them to collaborators and supervisors
- Ability to explain statistical conclusions and processes to the general public developed through working with students as a teaching assistant and tutor
- Communication skills developed through interaction with clients as an event technician