

## EDUCATION

### **Carnegie Mellon University**, Pittsburgh, PA

- B.S in Statistics and Machine Learning, Minor in Business Analytics and Optimization  
Expected May 2026 | GPA: 3.62/4.0  
Relevant Coursework: Intro to Causal Inference, Statistical Computing, Statistical Graphs and Visualizations

### **Shrewsbury High School**, Shrewsbury, MA

- Aug 2019 – Jun 2023 | GPA: 4.8/5.0  
Awards: National Merit Commended Student, AP Scholar with Distinction, Community Service Award (3x)
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## WORK EXPERIENCE

### **Carnegie Mellon University – Infant Language Learning Lab**

*Summer Undergraduate Research Fellow (SURF)* | Pittsburgh, PA | May 2024 – Aug 2024

- Conducted independent research on pediatric attention and brain activity using fNIRS technology
- Applied PCA to identify patterns of activation across brain regions; prepared preliminary findings for upcoming conference presentation

*Research Assistant* | Aug 2024 – Present

- Designed puzzle-based tasks to assess children's use of feedback and self-confidence in problem solving
- Ran in-lab study sessions with child participants; contributed to materials development and experimental design

### **Carnegie Mellon University – Pre-College Programs**

*Resident Assistant* | Pittsburgh, PA | Jun 2024 – Aug 2024

- Mentored 20+ high school students in a residential summer program, supporting academic and personal growth.
- Planned and led educational and community-building events in collaboration with staff.

### **Leonard Gelfand Center for Service Learning and Outreach**

*Teaching Assistant* | Pittsburgh, PA | Jun 2024 – Jul 2024

- Supported science summer camps for students ages 5–14, facilitating lessons in neuroscience, coding, and engineering.
  - Designed hands-on learning activities and communicated student progress to parents
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## PROJECTS AND RESEARCH

### **Allegheny County Health Department & CMU Statistics Department**

*Research Analyst (Academic Collaboration)* | Aug 2024 – Dec 2024

- Modeled Hepatitis C case trends and forecasted future rates using time series techniques.
- Conducted geospatial analysis in R to map access to ERs, opioid treatment centers, and health clinics.
- Collaborated with health officials and statisticians to improve healthcare resource planning.

### **CMU Racing Team – Driver Data Analysis**

*Data Analyst* | Aug 2023 – Present

- Developed Python scripts to visualize telemetry and GPS data from competition vehicles
- Created heatmaps to support driver training and car tuning decisions.
- Contributed to technical reports summarizing performance insights

### **BikePGH – Students Using Data for Social Good**

*GIS and Data Volunteer* | Aug 2023 – May 2024

- Used ArcGIS to evaluate Pittsburgh bike lane networks and identify infrastructure gaps.
  - Supported BikePGH's advocacy by creating visualizations and map overlays of cyclist patterns.
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## SKILLS

**Technical:** Advanced Python, R & C; Beginner SQL & ArcGIS, Microsoft Excel, PowerPoint, Word

**Professional Strengths:** science communication, mentoring, interdisciplinary collaboration

**Languages:** Fluent in English and Tamil; Intermediate Spanish