

DAWSON DAMUTH

M A T H E M A T I C I A N

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EDUCATION

Master of Professional Studies - Data Science and Applications

University at Buffalo | Buffalo, NY

Aug 2025

Bachelor of Science - Applied Mathematics

State University of New York at Oswego | Oswego, NY

May 2024

- Concentration: Statistics

RELEVANT PROJECTS & COURSEWORK

Categorical Data Analysis (Independent Study)

Explored statistical techniques for analyzing categorical variables, including logistic and log-linear models, applying these methods to real-world datasets to uncover multi-way relationships.

Tutoring Data Analysis

Collected and cleaned institutional tutoring data. Used exploratory data analysis and predictive modeling in the form of Logistic Regression to assess a newly implemented program's impact and assess tutoring efficacy. Presented findings clearly to the management team for the center.

Accent Classifier Model Development

Team lead on a neural network project to classify spoken accents from audio data. Managed model design, MFCC feature extraction, and performance evaluation using TensorFlow/Keras.

PROFESSIONAL EXPERIENCE

Mathematics Peer Tutor

Office of Learning Services

State University of New York at Oswego | Oswego, NY

Jan 2023–May 2024

Dedicated hub within the State University of New York at Oswego that focuses on providing comprehensive support to students in their learning journey. Strengthened student learning through the design and application of strategies that elevated understanding and boosted overall performance.

- Conducted personal research to reinforce the objectives of the center, providing critical feedback on programs and metrics of increased student performance.
- Facilitated individual and group tutoring sessions to create a collaborative learning environment, encouraging peer-to-peer interaction and knowledge-sharing.
- Created and shared relevant learning resources, including study guides, supplementary materials, and online tools, to enable student success in their studies.

Community Habilitation Specialist

Central New York Quest | Utica, NY

Aug 2020–Oct 2023

CNY Quest is an organization devoted to providing quality care to individuals with intellectual and developmental disabilities.

- Built a three-year professional track record supporting individuals with Autism Spectrum Disorder (ASD) by developing evidence-based routines and interventions to strengthen exposure, sociability, and communication skills, while promoting pathways toward full independence.
- Worked closely with supervisors and families to get feedback on how well care plans were working during community outings and social events.
- Helped plan company events that brought together caregivers and people receiving care, encouraging connection and shared experiences.

TECHNOLOGY SKILLS

Languages/Tools: R, Python, LaTeX, Minitab, Microsoft Excel, Microsoft Access, Microsoft Word