Gabriel **Mancino-Ball**

Applied Mathematician

Passionate about the blending of optimization, machine learning, and software development to solve business problems

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Experience

R&D Data Science Intern

3M - Corporate Research Systems Lab   Summer 2019   Minneapolis, MN

- Developed and deployed software using Amazon AWS to assist additive manufacturing production lab in computer vision tasks
- Created a data augmentation algorithm to generate training data for a custom trained object detection neural network
- Built time series prediction software using Python during intern Hack-A-Thon

Teaching Assistant

Rensselaer Polytechnic Institute   Fall 2018 – Spring 2019   Troy, NY

- Achieved cumulative student approval rating of 4.55/5.0
- Recitation leader for Multi-Variable Calculus and Matrix Algebra
- Support coordinating professor, including grading 120+ students quizzes and exams

Education

Ph.D. in Mathematics

Rensselaer Polytechnic Institute   Expected 2023   Troy, NY

- GPA: 4.0/4.0
- Passed Written Preliminary Exam with Distinction
- RPI Chapter Society for Industrial and Applied Mathematics Vice President

B.S. in Mathematics

Winona State University   2018   Winona, MN

- Graduate Summa Cum Laude
- Minored in Statistics

Relevant Coursework

- **Mathematics:** Computational Optimization, Numerical Analysis, Mathematical Statistics
- **Computer Science:** Large Scale Matrix Computations and Machine Learning

Computer Skills

- **Strong:** Python, R, MATLAB, Latex
- **Familiar:** HTML, CSS, Java