Gabriel Mancino-Ball

Applied Mathematician

Passionate about the blending of optimization, machine learning, and software development to create solutions to business problems grounded in first principles

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Experience

Research Assistant

- Rensselaer Polytechnic Institute 🎬 Spring 2020-Present 👂 Troy, NY
 - Develop and analyze algorithms to be used in distributed computing environments to solve consensus optimization problems
 - · Implement state-of-the-art algorithms from top-tier research papers to simulate distributed computing

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

Teaching Assistant

- Rensselaer Polytechnic Institute 🎁 Fall 2018 Fall 2019 👂 Troy, NY
 - Achieved cumulative student approval rating of 4.55/5.0
 - Recitation leader responsible for 120+ students for calculus I (F '19) and multi-variable calculus (F '18, S '19)

Education

Ph.D. in Mathematics

- Rensselaer Polytechnic Institute 🛗 Expected 2023 👂 Troy, NY
 - Passed written preliminary exam with distinction (S'19) and passed oral qualifying exam (S'20)
 - RPI Chapter Society for Industrial and Applied Mathematics Vice President (F'18-S'19)

B.S. in Mathematics

Relevant Coursework

- Mathematics: Computational Optimization, Linear Programming, Geometric Learning
- Computer Science: Large Scale Matrix Computations and Machine Learning, Optimization for ML

Computer Skills

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