

Rochester, NY 14620 | 904-502-0547 | [jmm2188@rit.edu](mailto:jmm2188@rit.edu) | [github.com/jared-m-murphy](https://github.com/jared-m-murphy) | [linkedin.com/in/jared-m-murphy/](https://linkedin.com/in/jared-m-murphy/)

## Education

**M.S. DATA SCIENCE | ROCHESTER INSTITUTE OF TECHNOLOGY | AUGUST 2021 – MAY 2024**

**SPRINGBOARD DATA SCIENCE CAREER TRACK | MARCH 2020 – JANUARY 2021**

**B.S. STATISTICS | UNIVERSITY OF NORTH FLORIDA | JUNE 2013 – AUGUST 2015**

## Skills

### RESEARCH

- Neuroevolution, Evolutionary Algorithms, Time Series Forecasting, Recurrent Neural Networks (LSTM, MGU), Genetic Algorithms, Reinforcement Learning

### PROGRAMMING LANGUAGES

- Python, Java, C++

### DATA SCIENCE TOOLS

- Python - pandas, numpy, statsmodels, sklearn, pytorch
- R - dplyr, tidyr, ggplot2, Quarto
- SQL

### MATHEMATICS AND STATISTICS

- Calculus I, II, III, Linear Algebra, Mathematical Statistics, Probability, Bayesian Methods, Hypothesis Testing, Time Series Analysis

## Publications

### MINIMIZING THE EXA-GP GRAPH-BASED GENETIC PROGRAMMING ALGORITHM FOR INTERPRETABLE TIME SERIES FORECASTING | GECCO '24

- Submitted to the 2024 Genetic and Evolutionary Computation Conference (GECCO) workshop (currently under review)
- C++, genetic programming, neuroevolution, recurrent neural networks, time series forecasting
- [https://github.com/jared-m-murphy/Portfolio/blob/main/Publications\\_Pending/GECCO24\\_EXA\\_GP\\_MIN\\_Workshop.pdf](https://github.com/jared-m-murphy/Portfolio/blob/main/Publications_Pending/GECCO24_EXA_GP_MIN_Workshop.pdf)

### EXA-GP: UNIFYING GRAPH-BASED GENETIC PROGRAMMING AND NEUROEVOLUTION FOR EXPLAINABLE TIME SERIES FORECASTING | GECCO '24

- Accepted as poster at the 2024 Genetic and Evolutionary Computation Conference
- C++, python, java, genetic programming, neuroevolution, recurrent neural networks, time series forecasting
- [https://github.com/jared-m-murphy/Portfolio/blob/main/Publications/GECCO24\\_EXA\\_GP\\_Poster.pdf](https://github.com/jared-m-murphy/Portfolio/blob/main/Publications/GECCO24_EXA_GP_Poster.pdf)

## Employment

**RESEARCH ASSISTANT | RIT | ROCHESTER, NY | AUGUST 2021 – MAY 2022, AUGUST 2023 – MAY 2024**

**CARPENTER/RESIDENTIAL PAINTER | SELF-EMPLOYED | HUDSON VALLEY, NY | OCTOBER 2016 – AUGUST 2021**

## References

**DR. TRAVIS DESELL | ASSOCIATE PROFESSOR | RIT | [TJDVSE@RIT.EDU](mailto:TJDVSE@RIT.EDU) | (518) 867-1054**

**DR. ASHIQUE KHUDABUKHSH | ASSISTANT PROFESSOR | RIT | [AXKVSE@RIT.EDU](mailto:AXKVSE@RIT.EDU) | (425) 698-9960**