Jared Murphy Data Scientist

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# 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>

## EXA-GP: Unifying graph-based gEnetic programming and neuroevolution for explainable time series FORCASTING | 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>

# 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