

Paul Tatasciore – Résumé

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Education

Aug 2024 Doctor of Philosophy (PhD) Physics - Florida Atlantic University

Adviser - Dr. Luc Wile

Research - Data-driven Machine Learning Dynamical Systems

May 2019 Master of Science (MS) Physics - Florida Atlantic University

Adviser - Dr. Armin Fuchs

Research - Nonlinear Dynamics in Complex Systesms

Dec 2020 Bachelor of Arts (BA) Mathematics - Florida Atlantic University

Adviser - Adviser - Dr. William Kalies

Research - Dynamical Systems Theory

May 2016 Bachelor of Science (BS) Physics - University of South Florida

Enriched Physics Program: *Top 5 % of students*

Adviser - Dr. Sagar Pandit

Research - Simulation of hydrated lipid membranes

May 2016 Bachelor of Arts (BA) Philosophy - University of South Florida

Enriched Physics Program: *Top 5 % of students*

Adviser - Dolores Morris

Capstone - Philosophy of the Mind

Employment History

Sep 2024 - Levatas

Present *Data Scientist / Machine Learning Engineer*

- Use Python to develop, maintain, and optimize computer vision and (AI) models
- Build processes to connect multiple computer vision (AI) models together
- Curate and merge datasets together and run various kinds of reports/analysis/verification
- Collaborate with cross-functional teams to integrate data processing solutions

Dec 2017 - Florida Atlantic University

Aug 2024 *Machine Learning Research Assistant*

- Produced data visualization to gain insight into various dynamical systems
- Employ various Machine Learning Algorithms for classification, regression, and clustering problems
- Fine tuned Neural Networks for various tasks

Software Engineering Skills

- **Programming Languages**

Python, Python, Python!!!

Well versed in various python packages including: numpy, scikit-learn, scipy, pandas, matplotlib, tensorflow, pytorch, keras, open-cv and many more!

C++

Latex

- **Machine Learning**

Computer Vision

Machine Learning Algorithms Neural Networks - Prediction / Classification / Regression

Backpropagation Algorithm for Neural Networks

Principal Component Analysis (PCA)

Clustering - Kmeans, meanshift

- **Miscellaneous**

Linux / Ubuntu - command prompt coding / bash scripting / python

Raspberry Pi - tinkering / device building

Arduino - circuit wiring / practical coding / making python programs

Apache Server - performance tuning and debugging

Languages

- **English - Native Tongue**
- **Spanish - Fluent**
- **Italian - Conversational**

Interests

- **Brazilian Jiu-Jitsu, Judo, Soccer, Traveling**
- **Artificial Intelligence, Machine Learning**
- **Tinkering with Arduino / Raspberry pi**
- **Optimizing my Linux personal computer / coding in Python**
- **Beating challengers in chess**
- **Surfing, Archery, Blacksmithing**