Alexander C. Michels

✓ alexandercm4297@gmail.com S alexandermichels.github.io

(716) 753 0414

in linkedin.com/in/alexmichels pithub.com/alexandermichels

Education

Westminster College

Bachelor of Science in Mathematics and Financial Economics

August 2015 - May 2019

- 3.7 GPA; Minor in Computer Science
- Honors Thesis in Hierarchical Temporal Memory focused on A.I. and Time Series Analysis
- Extra-Curriculars: Endowment Fund, Honors Program, Financial Analyst Program, Kappa Mu Epsilon, Men's Choir, Omicron Kappa Sigma, Pi Sigma Pi, and Secretary of Robotics Team

Experience

Informatics Researcher

Institute for Pure and Applied Mathematics at UCLA / Praedicat, Inc.

Systems Administrator and Software Engineer

Titan Radio and WCN 24/7

Teaching Assistant and Tutor

Westminster College

Data Scientist

Treloar & Heisel

Financial Analyst

Program with Moody's Investors Service VP Ben Nelson

Computational Finance Research Assistant

Dr. Charles Shaffer

Los Angeles, CA

New Wilmington, PA

June 2018 -August 2018

New Wilmington, PA May 2018 - Present

New Wilmington, PA

August 2015 - Present • New Castle, PA

September 2018 - Present

• Various

December 2017 - August 2018

New Wilmington, PA

January 2017 - May 2018

E Research

Using ARMA Models to Capture the Predictive Power of Cortical Learning Algorithms

December 2017 - Present advised by Dr. C. David Shaffer and Dr. Carolyn Cuff

Computational Fact-Checking through Relational Similarity based Path Mining

July 2018 - Present with Himanshu Ahuja

Minimum Square Deviance k-Chinese Postman Problems

August 2017 - January 2018

Algorithmic Game Theory

January 2017 - May 2017

advised by Dr. Fontes Merz

advised by Dr. Carolyn Cuff

Conferences and Talks

"Capturing the Predictive Power of Cortical Learning Algorithms"

National Conference on Undergraduate Research

"Computational Fact-Checking through Knowledge Graphs"

AMS Contributed Paper Session at 2019 Joint Mathematics Meeting

"Information Extraction and Aggregation for Business Profiling"

Invited Talk at Praedicat, Inc.

"Information Extraction and Aggregation for Business Profiling"

Invited Talk at Institute for Pure and Applied Mathematics

"Decentralizing the World with Blockchain"

Undergraduate Research & Arts Celebration

"Repeated Play Games"

MAA, Allegheny Mountain Section Meeting

"Strategies in Simulated Repeated Play Game Theory"

Undergraduate Research & Arts Celebration

"Optimizing Throughput, Cost, and Safety in Toll Booth Plazas"

Pi Mu Epsilon Regional Conference

April 2019

Atlanta, GA

January 2019

▼ Baltimore, MD August 2018

▼ Los Angeles, CA July 2018

• Los Angeles, CA

April 2018

New Wilmington, PA

April 2017

Pittsburgh, PA

April 2017

New Wilmington, PA

February 2017

▼ Youngstown, OH

Awards

Best Robot in Division Prize for Senior Unique Division

"Robot in the Division with the lowest Total Final Scores"

North America Award for Level 2

"The top North American robot in Level 2"

Dr. Thomas R. Nealeigh Mathematics Scholarship

"awarded to an outstanding junior or senior mathematics major"

Paul E. Brown Memorial Scholarship

"qiven based on merit and academic achievement"

Honorable Mention "excellent modeling and sensitivity analysis"

Mathematics Book Award

"presented to the sophomore Mathematics major with the highest GPA"

COMAP International Mathematical Modeling Competition March 2017

Westminster College

Westminster College

Trinity Fire Fighting Robot Contest

Trinity Fire Fighting Robot Contest

April 2018

April 2018

March 2018

March 2017

January 2017

Westminster College

✓ Skills

Example 2 Computer Science: Parallel Programming, Software Engineering, System Administration

□ Data Science: A.I., Big Data, Informatics, Machine Learning, Network Science

\$ Finance and Economics: Algorithmic Trading, Corporate Credit Analysis, GAAP, Risk Analysis

⟨→ Languages: Python (& Cython), Java, C++, Bash, R. HTML, CSS, XML, Javascript, SQL, Visual Basic

Software & Tools: AWS, Linux, NLTK, Numpy, Pandas, scikit-learn, Selenium