J (716) 753 0414 ♦ alexandermichels.github.io ✓ alexandercm4297@gmail.com in linkedin.com/in/alexmichels ♀ github.com/alexandermichels

Alexander C. Michels

Education

Westminster College

Bachelor of Science in Mathematics and Financial Economics

- 3.7 GPA; Minor in Computer Science; Honors in Computer Science and Math

University of Illinois at Urbana-Champaign

Ph.D. in Informatics

- Pursuing the Spatial Informatics concentration under Dr. Shaowen Wang

Champaign, IL

August 2019-Present

New Wilmington, PA August 2015 - May 2019

Experience

Geographic Information Science Researcher

CyberGIS Center

Informatics Researcher

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

Systems Administrator and Software Engineer

Titan Radio and WCN 24/7

Data Scientist

Treloar & Heisel

Financial Analyst

Program with Moody's Investors Service VP Ben Nelson

Computational Finance Research Assistant

Dr. Charles Shaffer

↑ Champaign, IL March 2019-Present

Los Angeles, CA

June 2018 -August 2018

• New Wilmington, PA

May 2018 - May 2019

• New Castle, PA

September 2018 - December 2018

• Various

December 2017 - August 2018

• New Wilmington, PA

January 2017 - May 2018

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

advised by Dr. Carolyn Cuff

Algorithmic Game Theory

January 2017 - May 2017

♣ 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

Q 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

"given 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"

April 2018

Trinity Fire Fighting Robot Contest

April 2018

Trinity Fire Fighting Robot Contest

March 2018

Westminster College

March 2017

Westminster College

January 2017

COMAP International Mathematical Modeling Competition

March 2017

Westminster College



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