Benjamin M. Harki, M.S.

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CAREER STATEMENT

(insert statement)

EDUCATION

DePaul University, Chicago, IL 2021 - Present
- Master's Student, Computer Science
- August 2023 (Anticipated Graduation)

West Virginia University, Morgantown, WV 2004 - 2011
- Master of Science in Mathematics (2011)
- Bachelor of Science in Mathematics, Minor in History (2008)

Additional Coursework as a Non-Degree Seeking Student 2004 - 2011
- University of Illinois at Chicago (2021): Differential Equations PhD level course
- West Virginia University (2015-2019): PhD level courses focused in Mathematical Analysis and Partial Differential Equations

EMPLOYMENT

DePaul University 2022 - Present
Teaching Assistant in Python Computer Science Lab
Chicago, IL
- Collaborate with multiple professors to administer their course's Python Lab
- Review lab content, field questions from approximately 30 students, and grade assignments

Harold Washington College of City Colleges of Chicago 2019 – Present
Adjunct Instructor in Mathematics
Chicago, IL
- Instructor for College Algebra and Trigonometry, face-to-face or remotely
- Attend training sessions for collaboration with DePaul/Harold Washington Faculty on how to best serve the DePaul Harold Washington Academy's academic needs

Pierpont Community and Technical College 2015 – 2019
Coordinator and Assistant Professor in Mathematics
Fairmont, WV
- Collaborate with mathematics assistant professors, adjunct faculty, Deans, and Provost to ensure quality of all face-to-face and online mathematics courses
- Develop and adjust curriculum to meet the needs of Pierpont degree programs and accreditation body
- Create master schedule of all mathematics courses and assign instructors
- Oversee all mathematics courses/instructors and resolve student-instructor conflicts
- Instructor for mathematics courses including Applied Mathematics for Industry, Technical Mathematics, College Algebra, Mathematics for Business, and Fundamental Concepts in Mathematics

Adjunct Instructor in Mathematics 2012 – 2015
Multiple Colleges in Chicago, IL and suburbs

- East-West University, Northwestern College, Prairie State College, Southern New Hampshire University Online

West Virginia High Tech Foundation Consortium 2011
Mathematician Intern/Researcher
Fairmont, WV

- Analyzed, programmed, and presented findings as a member of a research team testing a genetic algorithm that governed the machine vision of an unmanned vehicle for a military project

West Virginia University 2010 - 2011
Research Assistant and Master's Research Project
Morgantown, WV

- Assisted with development of a flight path coordination algorithm and modified a neural network trained on survey data

COMPUTER SCIENCE SKILLS

- Implemented a blockchain, multithreaded server, cache, and malloc programs
- Experienced in genetic algorithm and neural network AI algorithms
- Expert in Differential Equations (partial and ordinary) both in analysis and in finite element and finite difference approximation methods
- Advanced skill level in C, C++, Python, Java, C#, Rust, and MATLAB and intermediate skill level in Scala and Scheme programming languages
- Experienced in Linux Ubuntu, Win10/11, Office 365 and Google Applications, and HTML, LaTeX, PowerShell, Git, Perforce, Clang, Visual Studio

EXPERIENCE IN RESEARCH

Intern at West Virginia High Technology Foundation Consortium

- Tested a genetic algorithm on image data that calculated the machine vision of an aircraft in relation to a IR camera for a military project
- Presented results to the research team and attended a collaboration with multiple aerospace engineering companies from across the country

Research Assistant at West Virginia University

- Graduate Research Assistant for Marjorie Darrah, Ph.D.
- Created a Genetic Algorithm to calculate the fitness of a flight path for an unmanned vehicle in a surveillance operation for a military project
- Presented results to our research team and a team of engineers

Master's Degree Project

- Mined survey data by modifying a Neural Network