ANDREW W. HERRING, PH.D.

Mathematician interested in computers and how to break them

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EDUCATION

Ph.D. in Mathematics

University of Western Ontario (UWO)

Sept 2017 – Sept 2021 | London, Ontario, Canada

- Thesis: *"Genus Bounds for Some Dynatomic Modular Curves"*
- Thesis Keywords: *Arithmetic Dynamics*, *Galois Theory*, *Modular Curves*, *Genus*
- Thesis Supervisor: Dr. Chris Hall

M.S. in Mathematics

University of Wyoming (WYO)

Aug 2014 – May 2017 | Laramie, WY, USA

- Thesis: *"Groups and Covers of Graphs"*
- Thesis Supervisor: Dr. Chris Hall

B.S. in Mathematics

University of New Mexico (UNM)

Sept 2009 – Sept 2013 | Albuquerque, NM, USA

- Summa Cum Laude in Mathematics; Minor in Spanish

TECHNICAL SKILLS

Linux operating systems
macOS
Shell scripting (Bash/Zsh)
Git

Virtualization (VMware Player 16)
Nmap
Hashcat

Python3
HTML/CSS
PHP
JavaScript
SageMath
Perl

LaTeX
Markdown
Sublime Text

STRENGTHS

Effective Communication
Creative Problem Solving | Curiosity
Mastery of Complex Information

Collaborative Spirit
Explanation of Technical Subjects

Attention to Detail | Self-Starter
Persistence | Independent Learner

EXPERIENCE

Graduate Student Intern–WSSI Program

University of Western Ontario

May 2021 – Sept 2021

- Developed interactive quiz questions for UWO Math courses on WeBWorK (Perl based) platform; supervised undergraduate interns toward this goal

Instructor of Record

UWO/WYO/UNM

Jan 2014 – Dec 2019

- Delivered lectures, created assignments, held office hours, supervised TA's for: *Calculus 1,2*; *Trigonometry*; *Survey of Mathematics*; *College Algebra*

Teaching Assistant

UWO/WYO/UNM

Jan 2014 – Dec 2019

- Conducted weekly problem solving sessions, graded, held office hours, proctored exams for: *Calculus 1,2,3*; *Number Theory*; *Linear Algebra 1,2*; *Finite Mathematics*; *Group Theory*; *Abstract Algebra*