

# ANDREW W. HERRING, PH.D.

Mathematician interested in computers and how to break them

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Albuquerque, New Mexico

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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 Dynamotic 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

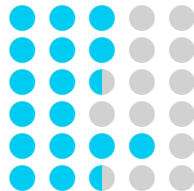
Linux operating systems  
macOS  
Shell scripting (Bash/Zsh)  
Git



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