Calvin Deutschbein (they/them)

CONTACT INFORMATION	Willamette University		
	Department of Computer Science		
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RESEARCH INTERESTS

Mining Secure Behavior of Hardware Designs: specification mining, data mining, machine learning, computer security, cybersecurity, hardware security, secure design, security validation, computer architecture hardware design languages (HDL), information flow tracking (IFT), logics of specification, register transfer level (RTL), instruction set architecture (ISA), hyperproperties, reduced instruction set computers (RISC), complex instruction set computers (CISC), x86, temporal logics, linear temporal logic (LTL)

CURRENT ACADEMIC APPOINTMENTS

Assistant Professor, Willamette University   August 2021 to present
Department of Computer Science
Computing & Data Science

PREVIOUS ACADEMIC APPOINTMENTS

Adjunct Professor, Elon University   January 2020 to May 2020
Department of Computer Science
- CSC 130 Computer Science I

Research Scholar, Semiconductor Research Corporation   October 2018 to August 2021
SRC Research Scholars Program
- Tasks:
  - Tackling the Corner Cases: Finding Security Vulnerabilities in CPU Designs
  - Automatically Generating Information Flow Properties
- Liasons:
  - Intel Corporation, Hillsboro, Oregon
  - Mentor Graphics (now: Siemens EDA), Wilsonville, Oregon

EDUCATION

The University of North Carolina at Chapel Hill, Chapel Hill, NC

Ph.D., Computer Science, August 2021
- Thesis: *Mining Secure Behavior of Hardware Designs*
- Advisor: Cynthia Sturton
- Area: Hardware Security

M.S., Computer Science, August 2017
- Thesis: *Multi-core Cyclic Executives for Safety-Critical Systems*
- Advisor: Sanjoy Baruah
- Area: Real-Time Systems

The University of Chicago, Chicago, IL

B.S., Computer Science, March 2015
- Thesis: *Performance and Energy Limits of a Processor-integrated FFT Accelerator*
- Advisor: Andrew A. Chien
- Area: Computer Architecture

B.A., Mathematics, March 2015