

Daniel G. Graham

CONTACT INFORMATION

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Charlottesville
Virginia

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EDUCATION

William & Mary, Williamsburg, Virginia USA

Ph.D., Computer Science, May 2016

- Advisor: Gang Zhou

University of Virginia, Charlottesville, Virginia USA

M.Eng System Engineering, May 2011

B.S., Computer Engineering, Electrical Engineering & Engineering Science, May, 2010

PROFESSIONAL EXPERIENCE

University of Virginia, Charlottesville, Virginia USA

Associate Professor

August 2025 - Present

-Research Focus: Secure Embedded Systems & Networks

Assistant Professor

August 2018 - August 2025

-Research Focus: Secure Embedded Systems & Networks

Bridgewater College, Bridgewater, Virginia USA

Assistant Professor

August 2017 - June 2018

-Research Focus: Secure Embedded Systems & Networks

Microsoft, Redmond, Washington USA

Program Manager

Jan, 2016 - May 2017

- Telemetry, Theming, Chrome SSO plugin 30+ million users [Download]

BOOKS

- *Metasploit, 2nd Edition: The Penetration Tester's Guide* by David Kennedy, Mati Aharoni, Devon Kearns, Jim OGorman, and Daniel Graham, Published by No Starch Press Distributed by Penguin Random House [Book] Expected in January, 2025
- *Ethical Hacking: A Hands-on Introduction to Breaking In* by Daniel Graham, Published by No Starch Press Distributed by Penguin Random House [Book] Nov, 2021

CONFERENCE PUBLICATIONS

- "Virginia Cyber Navigator Internship Program (VA-CNIP): Service Learning in Local Election Security" *Journal of The Colloquium for Information Systems Security Education 2023* [PDF] Angela Orebaugh, Jack Davidson, Deborah Johnson, **Daniel Graham**, Worthy Martin
- "Redesigning the Online Video Lecture Player to Promote Active Learning" *Frontiers in Education (FIE) Aug 2020* [PDF] **Ian Walk**, Arnold Yim, Ed Novak, Charles Reiss, **Daniel Graham**,
- "Real-Time Encoding/Decoding for Pairwise Communication Over an Unreliable Sensor Network" in *Sensornets: International Conference on Sensor Networks Jan 2019* [PDF] **Daniel Graham**, Arnold Yim, Gang Zhou, Weizhen Mao

JOURNAL
PUBLICATIONS

- “Prototyping Wearables: a Code-First Approach to Designing Embedded Systems” in *IEEE Internet of Things Journal* Mar 2016 [PDF] **Daniel Graham**, Gang Zhou
- “A Software Based Sonar Ranging Sensor For Smart Phones” in *IEEE Internet of Things Journal* Dec 2015 [PDF] **Daniel Graham**, George Simmons, David T. Nguyen, Gang Zhou
- “A Smartphone Compatible SONAR Ranging Attachment for 2D Mapping” in *IEEE Internet of Things Journal* Nov 2015 [PDF] **Daniel Graham**, Gang Zhou, Ed Novak, Jeff Buffkin
- “Towards an EEG-based brain-computer interface for online robot control” in *Multimedia Tools and Applications* June 2015 [PDF] Yantao Li, Gang Zhou, **Daniel Graham**, Andrew Holtzhauer
- “Discrete-time Markov Model for Wireless Link Burstiness Simulations” in *Springer Wireless Personal Communications* March 2013 [PDF] Yantao Li, **Daniel Graham**, Gang Zhou, Xin Qi, Shaojiang Deng, Di Xiao

TEACHING
Students Reached:
2000+

- CS 4102 Algorithms: Spr 2019, Sum 2019
- CS/ECE 4457 Computer Networks: Fall 2018, Spr 2020, Spr 2021, Fall 2021
- CS 3330 Computer Architecture: Fall 2018, Fall 2019
- CS 4720 Mobile App Dev: Spr 2019, Fall 2019, Spr 2020, Sum 2020, Fall 2020, Sum 2021, Fall 2021, Sum 2024
- CS 4760 Network Security: Spr 2021, Spr 2022
- CS 2110 Software Development Methods: Fall 2020, Spr 2021
- CS 4501 Cyber Security and Elections : Spr 2022, Fall 2022
- CS 2130 Computer Systems and Organization : Fall 2023, Spr 2024, Fall 2024

GRANTS

- VA-CNIP: A Coalition for the Virginia Cyber Navigator Internship Program. National Centers of Academic Excellence in Cybersecurity Program. Co-PI. 9/15/2021 -12/31/2024.
- Google Grant fuzzing the Hermes JavaScript Engine Year: 2020
- NSF I-Corps Exploring Digital Therapeutics Year: 2019
- Research Support from William & Mary Technology Transfer Office, for Prototyping Wearable Devices, Year: 2015

SERVICE INTERNAL

- SEAS Academic Standard Committee - 4 years
- Clark Scholar faculty fellow - 3 years
- Undergraduate Computer Science Student Experience Committee - 1 year
- BS Computer Science Curriculum Committee - 4 years

SERVICE EXTERNAL

- TCP Member Wireless Algorithms, Systems, and Applications (WASA) 2020
- TCP Member International Conference on Computer Communications and Networks (ICCCN) 2019
- IEEE Journal Internet of Things Reviewer
- Recommendation Systems for Software Engineering (RSSE) 2012 (co-reviewer)

HONORS AND
AWARDS

William & Mary Graduate Research Fellowship, 2011