

Daniel G. Graham Curriculum Vitae

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Education

William & Mary, Williamsburg, Virginia, USA

- Ph.D., Computer Science, May 2016

University of Virginia, Charlottesville, Virginia, USA

- M.Eng., Systems Engineering, May 2011
- B.S., Computer Engineering, Electrical Engineering, and Engineering Science, May 2010

Professional Experience

University of Virginia, Charlottesville, Virginia, USA August 2025–Present

Associate Professor, School of Data Science

Research focus: Secure Intelligent Systems & Networks.

University of Virginia, Charlottesville, Virginia, USA August 2018–August 2025

Assistant Professor

Research focus: Secure Intelligent Systems & Networks.

Bridgewater College, Bridgewater, Virginia, USA August 2017–June 2018

Assistant Professor

Microsoft, Redmond, Washington, USA January 2016–May 2017

Program Manager

Telemetry, theming, and Chrome single sign-on plugin work supporting a product with 30+ million users; [download page](#).

Books

- *Metasploit, 2nd Edition: The Penetration Tester's Guide*, by David Kennedy, Mati Aharoni, Devon Kearns, Jim O'Gorman, and Daniel Graham. Published by No Starch Press; distributed by Penguin Random House. January 2025. [Book page](#).
- *Ethical Hacking: A Hands-on Introduction to Breaking In*, by Daniel Graham. Published by No Starch Press; distributed by Penguin Random House. November 2021. [Book page](#).

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. Angela Orebaugh, Jack Davidson, Deborah Johnson, Daniel Graham, and Worthy Martin. [Article PDF](#).

- “Redesigning the Online Video Lecture Player to Promote Active Learning.” *Frontiers in Education (FIE)*, August 2020. Ian Walk, Arnold Yim, Ed Novak, Charles Reiss, and Daniel Graham. [Article page](#).
- “Real-Time Encoding/Decoding for Pairwise Communication Over an Unreliable Sensor Network.” In *Sensornets: International Conference on Sensor Networks*, January 2019. Daniel Graham, Arnold Yim, Gang Zhou, and Weizhen Mao. [Article PDF](#).

Journal Publications

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

Teaching

Students reached: 2000+

- CS 4102 Algorithms: Spring 2019, Summer 2019
- CS/ECE 4457 Computer Networks: Fall 2018, Spring 2020, Spring 2021, Fall 2021
- CS 3330 Computer Architecture: Fall 2018, Fall 2019
- CS 4720 Mobile App Development: Spring 2019, Fall 2019, Spring 2020, Summer 2020, Fall 2020, Summer 2021, Fall 2021, Summer 2024
- CS 4760 Network Security: Spring 2021, Spring 2022, Summer 2025
- CS 2110 Software Development Methods: Fall 2020, Spring 2021
- CS 4501 Cyber Security and Elections: Spring 2022, Fall 2022
- CS 2130 Computer Systems and Organization: Fall 2023, Spring 2024, Fall 2024, Spring 2025
- DS 2022 Systems I: Fall 2025

Grants In Submission

- NSF SaTC 2.0 EDU: *Cybersecurity for Data Scientists: Hands-On, Research-Driven Curriculum for a Resilient Workforce*. National Science Foundation (Secure and Trustworthy Cyberspace). PI. Submitted January 26, 2026. Funding dates: 2026–2029. \$600,000.

Grants Funded

- 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. \$2,938,982.
- Google Grant fuzzing the Hermes JavaScript Engine. Year: 2020.
- NSF I-Corps Exploring Digital Therapeutics. Year: 2019.
- Research support from the William & Mary Technology Transfer Office for prototyping wearable devices. Year: 2015.

Internal Service

- School of Data Science Search Committee
- School of Data Science PhD Admission Committee
- SEAS Academic Standards Committee – 4 years
- Clark Scholar Faculty Fellow – 3 years
- Undergraduate Computer Science Student Experience Committee – 1 year
- BS Computer Science Curriculum Committee – 4 years

External Service

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

Honors and Awards

William & Mary Graduate Research Fellowship, 2011.