

ADWAIT NADKARNI - SERVICE STATEMENT

I strive to be an active participant in the college community at William & Mary, the community of my colleagues in the Computer Science department, and my research community of computer security. My goal in doing so is to affect positive changes wherever necessary, and be a driving force in shaping the academic and scientific discourse.

Service to the College

In time as a faculty at William & Mary, I have been a member of the Thesis and Dissertation Awards committee (2017-2019). I have also participated in the Sanderson Undergraduate Mentoring Awards Committee, and the selection committee for the prestigious Thomas Jefferson Prize in Natural Philosophy. Moreover, I am an active participant in the college's undergraduate research mission, and have advised three Charles Center scholarship recipients: Sayyed Razmjo (Summer 2022), Kunyang Li (Summer 2021), and Ruhao Tang (Summer 2018). Furthermore, I strongly encourage my students to participate in college-wide research activities, such as the Graduate Research Symposium. Finally, I have served as a freshman advisor to approximately 6-8 incoming students each year since 2019, which has been a novel and rewarding experience.

Service to the Computer Science Department

At the departmental level, I have served in three prominent committees, i.e., (1) the Graduate Admissions committee (AY 2017-2019, 2022), (2) the Graduate Outreach/Recruitment committee (**founding member**, AY 2018-2022, **as chair in AY 2022**), and (3) the Faculty Hiring Committee (AY 2019-2022). In addition, I have also served in the CS Web Presence Committee (AY 2021).

Graduate Admissions Committee: As a member of the admissions committee, my responsibilities included triaging incoming Fall and Spring applications, and identifying potential candidates who meet the bar for the PhD, MS/PhD, or MS programs in the Computer Science Department. Reviewing hundreds of application profiles with other senior faculty gave me insight into the expected bar for incoming CS graduate students at William & Mary. Moreover, it also taught me about the factors students consider when applying to graduate schools, and the common mistakes they make in their applications. These lessons have proven crucial in enabling me to contribute significantly to the department's graduate outreach efforts, which I briefly describe next.

Graduate Outreach/Recruitment Committee: On joining the department in Fall'17, my first priority was recruiting highly motivated graduate students in my security research group. As a result, I started my outreach efforts by reaching out to top US and international institutions where I knew faculty, and delivering talks whenever possible (e.g., my "Computer Security: a 10k feet view" talk at IIT Bombay, Mumbai, India).

To allow for more coordinated outreach efforts among the CS faculty, the faculty of the Computer Science department unanimously voted to establish a Graduate Outreach Committee, with the goal of increasing the applications to the CS PhD and MS/PhD programs, especially from US-based students. I volunteered to be a founding member of this committee, for AY 2018-19, and have served on it since. The outreach committee decided on visiting primarily undergraduate US institutions. As a part of this effort, I have delivered outreach talks at three institutions: (1) Virginia Union University (HBCU) (Fall 2018), (2) Randolph Macon College (Fall 2018, Fall 2019), and (3) Longwood University (Spring 2022). Interacting with students at faculty at these institutions gave me insight into the common misconceptions that undergraduate students may have, and the general hurdles they face when opting for graduate school. These experiences have further enabled me to take a leading role in the department's outreach efforts, which I am leading as the chair of the graduate outreach committee for AY 2022.

Computer Science Faculty Hiring Committee: I served as a member of the CS faculty hiring committee for AY 2019, 2020, and 2021. My responsibility as a member of the committee was mainly to triage applications and identifying faculty candidates for interviews, keeping in mind both the research focus of the CS department, as well as the teaching excellence that is unique to W&M. Serving on this committee helped me further understand the needs of the CS department and the challenges in an increasingly competitive CS hiring market. I hope to leverage this experience to advocate for the CS department within W&M, as well as in my research community.

Service to the Security Research Community

In my time at William & Mary, I have been invited to serve on the program committees of *the top-tier security conferences*, namely, the USENIX Security Symposium (2023, 2021, 2019 and 2018), the IEEE Symposium on Security & Privacy (*S&P*) (2023), the Internet Society's Network and Distributed Systems Security Symposium (*NDSS*) (2022, 2021, 2020), and the ACM Conference on Computer and Communications Security (*CCS*) (2018). Serving on these committees not only allows me to participate in the shaping of my research field, but has also come at an opportune time, when the publishing model of security conferences is undergoing a major transition to a journal-like submission model, with more than one deadline throughout the year, and major and minor revision decisions in addition to straight admits and rejects. I am an active participant in the challenging aspects of running such a PC, and assisting the co-chairs in whichever way I can.

I have also been broadening my participation in related domains such as software engineering and privacy. I recently served on the program committee of the International Conference on Automated Software Engineering (ASE) 2021, a top-tier venue in software engineering, and am currently on the program committee of the Symposium on Privacy Enhancing Technologies (PETS) 2023. Moreover, I have also served on the program committees of several well-respected or emerging security venues, such as the Annual Computer Security Applications Conference (ACSAC) (2022, 2021), THE ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec) (2022, 2020, 2019, 2018), the IEEE Conference on Dependable and Secure Computing (DSC) (2018, 2019), and the EAI International Conference on Security and Privacy in Communication Networks (SecureComm) 2020. I am routinely invited to review manuscripts for several top journals in my field, as well as broader areas of software engineering and systems, such as the ACM Transactions on Privacy and Security (TOPS), the IEEE Transactions on Dependable and Secure Computing (TDSC), the IEEE Security & Privacy Magazine, the IEEE Transactions on Software Engineering (TSE), the IEEE Transactions on Parallel and Distributed Systems (TPDS), and the IEEE Transactions on Information Forensics and Security (T-IFS). Finally, in addition to program committees, I have also actively participated in conference organization efforts, having recently served as the poster chair for NDSS (2022, 2021), and also served on NSF panels for programs associated with computer security (NSF SaTC: 2018, SBIR: 2020).

I enjoy my work as an academic in the dynamic field of Computer Science, and interacting with researchers, practitioners, and students of the field. I am deeply involved in the computer security research community, and my long-term goal is to increase the presence of William & Mary in this community, through research, education, and outreach efforts.