

Scott T. Seidenberger

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EDUCATION

The University of Oklahoma, Norman, OK May 2026

Ph.D., Data Science & Analytics

Dissertation: *Toward a General Science of Secure Protocol Networks: Measuring and Improving Privacy, Security, and Resilience in Planet-Scale Decentralized Systems*

Advisor: Dr. Anindya Maiti

🏆 Gallogly College of Engineering Dissertation Excellence Award

The Pennsylvania State University, University Park, PA 2020

M.P.S., Data Science & Analytics

Topics: NLU/NLP, Machine Learning

Cornell University, Ithaca, NY 2016

B.S. with Honors, Industrial & Labor Relations

Honors Thesis: *Can the Government and Military Compete with Private Sector Companies for Technical Talent?*

Topics: Human Resource Studies, Global Labor, Statistics & Information Science

🏆 Ives Senior Award

ACADEMIC APPOINTMENTS

Postdoctoral Associate 2026–Present

ILR School, Cornell University

– Future of Work Fellow

– Cornell AI Experimenters Faculty Fellow

Graduate Teaching Assistant 2023–2025

University of Oklahoma

– School of Computer Science

– Data Science and Analytics Institute

Graduate Research Assistant 2022–2023

University of Oklahoma

School of Computer Science

PUBLICATIONS

Datasets

3. **Seidenberger, S.**, Ajisegiri, O., Pursell, N., Raja, F., & Maiti, A. (2025). Why You’ve Got Mail: Evaluating Inbox Privacy Implications of Email Marketing Practices in Online Apps and Services. *Academic Torrents*. 📄 1,100+ downloads.
2. **Seidenberger, S.**, Pursell, N., & Maiti, A. (2025). MagnetDB: A Longitudinal Torrent Discovery Dataset with IMDb-Matched Movies and TV Shows. *Academic Torrents*. 📄 300+ downloads.
1. **Seidenberger, S.**, & Maiti, A. (2024). EtherBee: Ethereum Node Network Traffic, Telemetry, Honeypot Interactions, and Logs. *Open Science Framework (OSF)*. osf.io/c5upf.

Peer-Reviewed Conference Papers

10. Wise, T., **Seidenberger, S.**, & Maiti, A. (2026). What Should I Become? When LLMs Present a Slice of Opportunity as the Whole. To appear in the 9th AAAI/ACM Conference on AI, Ethics, and Society (**AIES-26**).
9. Trinh, K., **Seidenberger, S.**, Spracklen, J., Wijewickrama, R., Viswanath, B., Jadliwala, M., & Maiti, A. (2026). Prompt and Circumstances: Evaluating the Efficacy of Human Prompt Inference in AI-Generated Art. International Conference on Evolutionary and Biologically Inspired Music, Sound, Art and Design (**EvoMUSART**). [doi:10.1007/978-3-032-24350-8_10](https://doi.org/10.1007/978-3-032-24350-8_10).

8. **Seidenberger, S.**, Beret, M., Wijewickrama, R., Jadliwala, M., & Maiti, A. (2026). NinjaDoH: A Censorship-Resistant Moving Target DoH Server Using Hyperscalers and IPNS. Workshop on Measurements, Attacks, and Defenses for the Web (**MADWeb, co-located with NDSS**). doi:10.14722/madweb.2026.23006. [Project page](#).
7. **Seidenberger, S.**, & Maiti, A. (2025). From Big Data to Valued Data: A Dataset Value Taxonomy for AI-Native Empirical Research. 8th AAAI/ACM Conference on AI, Ethics, and Society (**AIES**). doi:10.1609/aies.v8i3.36715.
6. **Seidenberger, S.**, & Maiti, A. (2025). Initial Evidence of Pervasive Reconnaissance Targeting Ethereum Node Infrastructure. 7th ACM International Symposium on Blockchain and Secure Critical Infrastructure (**BSCI, co-located with ACM ASIACCS**). doi:10.1145/3709016.3737797.
5. Trinh, K., **Seidenberger, S.**, Wijewickrama, R., Jadliwala, M., & Maiti, A. (2025). A Picture is Worth a Thousand Prompts? Efficacy of Iterative Human-Driven Prompt Refinement in Image Regeneration Tasks. International Joint Conference on Artificial Intelligence (**IJCAI**). doi:10.24963/ijcai.2025/1132.
4. **Seidenberger, S.**, Pursell, N., & Maiti, A. (2025). MagnetDB: A Longitudinal Torrent Discovery Dataset with IMDb-Matched Movies and TV Shows. Nineteenth International AAAI Conference on Web and Social Media (**ICWSM**). doi:10.1609/icwsml.v19i1.35959.
3. **Seidenberger, S.**, & Maiti, A. (2025). EtherBee: A Global Dataset of Ethereum Node Performance Measurements Coupled with Honeypot Interactions and Full Network Sessions. Seventh IEEE International Conference on Blockchain and Cryptocurrency (**ICBC**). doi:10.1109/ICBC64466.2025.11114523.
2. **Seidenberger, S.**, Ajisegiri, O., Pursell, N., Raja, F., & Maiti, A. (2025). Why You've Got Mail: Evaluating Inbox Privacy Implications of Email Marketing Practices in Online Apps and Services. Fifteenth ACM Conference on Data and Application Security and Privacy (**CODASPY**). doi:10.1145/3714393.3726516.
1. **Seidenberger, S.**, & Collins, C. J. (2018). Can government agencies compete with for-profit companies for software talent? Examining the role of employer branding and government attitudes in attracting student applicants. *Academy of Management Meetings*, Chicago. doi:10.5465/AMBPP.2018.13596symposium.

Peer-Reviewed Journal Articles

2. **Seidenberger, S.**, Pursell, N., & Maiti, A. (2026). Front-Running the Red Carpet: A Measurement Study of Media Torrent Leaks and User Risks. To appear in the *Journal of Quantitative Description: Digital Media (JQD:DM)*. doi:10.51685/jqd.2026.014.
1. Dornick, C., Kumar, A., **Seidenberger, S.**, Seidle, E., & Mukherjee, P. (2021). Analysis of patterns and trends in COVID-19 research. *Procedia Computer Science*, 185, 302–310 (Proceedings of the Complex Adaptive Systems Conference, CASC 2021, Malvern, PA). doi:10.1016/j.procs.2021.05.032.

Review Articles & Book Reviews

3. **Seidenberger, S.** (2016). A new role for human resource managers: Social engineering defense. *Cornell HR Review*. Available at: <hdl.handle.net/1813/73018>.
2. **Seidenberger, S. T.** (2018). Why Air Forces Fail: The Anatomy of Defeat. *Air & Space Power Journal*, 32(1), 125–127. Available at: [Gale link](#).
1. **Seidenberger, S. T.** (2018). Sidewinder: Creative Missile Development at China Lake. *Air & Space Power Journal*, 32(4), 103–105. Available at: [Gale link](#).

Military Publications

4. **Seidenberger, S. T.** (2022). Airborne Cooperative EW Integrated Reprogrammable Exchange (ACEWIRE). *Classified*. Led to a \$100k award for system testing; initial tests were successful, and the system remains under active development. [ACC article](#).
3. 3-1 AWACS (2022). *Classified*. First Author of Chapter on Electromagnetic Warfare.
2. 3-3 AWACS (2022). *Controlled Unclassified*. Second Author of Chapter on Mission Planning Air Operations.
1. **Seidenberger, S. T.** (2018). Space Weather Effects on Satellite-Based Airborne Communications in USCENCOM. *Classified*.

Under Review

3. Trinh, K., Rothenberger, J., **Seidenberger, S.**, Diochnos, D. I., & Maiti, A. (2026). CLPIPS: A Personalized Metric for AI-Generated Image Similarity.
2. Trinh, K., **Seidenberger, S.**, Wijewickrama, R., Jadliwala, M., & Maiti, A. (2026). The Refinement Gap: A Mixed-Effects Comparison of Human and Agentic Prompt Refinement in Image Regeneration.
1. **Seidenberger, S.**, Trinh, K., & Maiti, A. (2026). Node Infrastructure First: Measuring Attacks, Modeling Cascades, and Rapid Recovery Tactics. *Under review at Distributed Ledger Technologies: Research and Practice (DLT)*.

Reports and Pre-Prints

1. **Seidenberger, S.**, Sokol, A., & Maiti, A. (2023). Stake Your Claim: Zero-Trust Validator Deployment Leveraging NFTs and Smart Contracts in Proof-of-Stake Networks. arXiv preprint [arXiv:2308.01158](https://arxiv.org/abs/2308.01158).

RESEARCH GRANTS

\$45,000 in funded research grants as Co-PI (3 awards), plus competitive travel, sponsorship, and fellowship awards.

3. **[Co-PI] Ethereum Foundation Academic Grant (FY24-1546):** Change Analysis and Network Anomaly Recognition sYstem (CANARY)
 - Supports the creation of a real-time surveillance and early-warning system for the Ethereum peer-to-peer (P2P) network. Using advanced time-series changepoint detection, CANARY identifies anomalies and potential security threats in the decentralized network.
 - *Award Amount:* \$24,000
2. **[Co-PI] Ethereum Foundation Academic Grant (FY24-1547):** Secure Ethereum Anonymity & Defense Relay via Advanced Global Overlay Networking (SEADRAGON)
 - Supports the creation of a lightweight, adaptable, purpose-built virtual private network (VPN) that obscures node public IP addresses from potential attackers, significantly improving privacy. It also creates a resilient overlay network that helps nodes maintain operation and mitigate network-layer attacks.
 - *Award Amount:* \$17,000
1. **[Co-PI] Storj, Inc. Grant (2024):** Rapid Activation via Decentralized Snapshots (RADS)
 - Supports a project to enhance the security and liveness of Ethereum node operators by leveraging Web3 decentralized storage to rapidly deliver blockchain snapshots and reduce recovery time for new or recovering nodes.
 - *Award Amount:* \$4,000

Other Grants & Awards

3. **OU College of Engineering Travel Award (2025).**
2. **Ethereum Foundation Education Sponsorship Award (2025)** — \$4,000. Funded the inaugural “Built on Ethereum Prize” at Hacklahoma 2025; delivered a Web3 workshop and served as a mentor on behalf of the Ethereum Foundation, helping 300+ students build dApps and blockchain-based applications.
1. **Ethereum DevCon Academic Fellowship (2024)** — \$3,000. Competitively selected as an academic fellow for the largest, globally recognized Ethereum developer and community conference.

TEACHING

3 graduate courses at the University of Oklahoma, plus U.S. Air Force instruction reaching 1,000+ officers and aviators as a course director and flight instructor.

Blockchains and Cryptocurrencies (CS 5833)
Co-Instructor

Spring 2025

Cyber Attacks and Defenses (CS 5970)
Teaching Assistant

Spring 2025

Financial Engineering (DSA 5303)
Teaching Assistant

Summers 2024–2025

Advanced Signals Intelligence — U.S. Air Force Course Director / Lead Instructor	2020–2022
Instructor Air Battle Manager — U.S. Air Force	2019–2022

INVITED TALKS

Invited talks and panels across academic, industry, and defense venues, including TE Connectivity, Bloomberg/Cornell CAHRS, Hacklahaoma, the Joint Requirements Council, and TEDx.

“GenAI & HR: AI Adoption, Work Redesign, and the Unit Economics of Enterprise AI” TE Connectivity HR Leadership Team (HRLT), Virtual	Jun 2026
“Charting the Future: GenAI & HR” Colgate-Palmolive, New York, NY. CAHRS In-Person Working Group.	Apr 2026
“Charting the Future: GenAI & HR” Bloomberg, New York, NY. CAHRS Working Group.	Oct 2025
“Crafting Cutting-Edge Applications for a Decentralized Web” Hacklahaoma 2025, Norman, OK. Event page .	Feb 2025
“Beyond Horizon Range Engagements” (Keynote) Joint Requirements Council, St. Louis, MO. Audience included the Vice Chairman of the Joint Chiefs of Staff.	Sep 2022
“Integrating a New Generation of Warriors” TEDx, Ithaca, NY. Video .	May 2015

PROFESSIONAL SERVICE

Program committee member for AIES 2026; peer reviewer for 8 venues (including NeurIPS, IEEE S&P, AISTATS, and WWW); departmental faculty-hiring committee service; and mentor to graduate and undergraduate researchers.

Program Committees

– AAAI/ACM Conference on AI, Ethics, and Society (AIES)	2026
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Peer Review

– AAAI/ACM Conference on AI, Ethics, and Society (AIES)	2025
– Conference on Neural Information Processing Systems (NeurIPS)	2024–2025
– IEEE Symposium on Security & Privacy (IEEE S&P Oakland)	2025
– Conference on Artificial Intelligence and Statistics (AISTATS)	2025
– International Conference on Distributed Computing Systems (ICDCS)	2025
– The ACM Web Conference (WWW)	2025
– Pervasive & Mobile Computing Journal (PMC)	2025
– Air & Space Power Journal (ASPJ)	2017–2019

Departmental Committees

– CS Faculty Hiring Committee — tenure-track search in cybersecurity	2025
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Student Mentoring

– Natalie Hill ('25) — M.S. Capstone: <i>AI Politician: Fine-tuned Models for Political Discourse</i>	
– Noah Pursell ('26) — B.S. Research: Mentored in quantitative methods, leading to co-authorship on two publications	
– Marc Beret ('24) — M.S. Thesis: <i>Evaluation of Moving-Target DoH Server Detection Using ML Models</i>	
– Tristan Bony ('24) — M.S. Thesis: <i>Impact of External Factors on Ethereum Network Stability</i>	

INDUSTRY EXPERIENCE

Nethermind , Washington, DC Ph.D. Research Fellow	Summer 2025
– Led technical due-diligence on a Bitcoin restaking platform for a country-level ETF issuer	
– Created novel zero-knowledge proof schemes to reduce bandwidth on Ethereum’s P2P layer	
Epoch Forge , Washington, DC	2023–2025

Co-founder & Managing Director

epochforge.io

- Led a digital-infrastructure provider specializing in Web3 node operations
- Secured \$10M+ of customer funds via public blockchain validators
- Successfully exited after serving two enterprise customers

Advanced Strategic Insight, Washington, DC

2023

Defense Analyst

- Led research on human-machine teaming; produced a company white paper on autonomous agent integration with air operations
- Lead analyst for an SBIR Phase II proposal (USAF capability enhancement)
- Authored technical briefs for DARPA, USAF Rapid Capabilities Office, and Space Systems Command

MILITARY SERVICE: CAPTAIN, UNITED STATES AIR FORCE

Instructor Air Battle Manager, Mission Commander, E-3 AWACS

Clearance: **TS/SCI** (2016–2024), inactive

Assignments

2020–2023, Wing Chief Electromagnetic Warfare Officer, 552 Operations Support Squadron, Tinker AFB, OK
2021, Electronic Warfare Coordinator Course, 479 Operations Support Squadron, NAS Pensacola, FL
2020, Air Battle Manager Instructor Upgrade, 966 Airborne Air Control Squadron, Tinker AFB, OK
2019–2020, Chief of Squadron Innovation, 964 Airborne Air Control Squadron, Tinker AFB, OK
2019, Electronic Combat Officer Training, 966 Airborne Air Control Squadron, Tinker AFB, OK
2018–2019, Air Weapons Officer, 964 Airborne Air Control Squadron, Tinker AFB, OK
2018, Student, Air Weapons Officer Training, 966 Airborne Air Control Squadron, Tinker AFB, OK
2017, Survival, Evasion, Resistance, and Escape (SERE), Fairchild AFB, WA
2016–2017, Student, Undergraduate Air Battle Manager Training, 337 Air Control Squadron, Tyndall AFB, FL

Selected Appointments

2021–2022, Joint Mission Commander, NIMBLE FIRE, Joint Staff J8
2021–2022, Lead E-3 Planner, NEPTUNE HAWK, Pacific Air Forces
2020–2022, Principal Operations and Technical Advisor, AI Integration & Directed Energy, Air Force Research Laboratory
<https://www.afrl.af.mil/News/Article/2929406/>
<https://www.afrl.af.mil/News/Article-Display/Article/2675775/>
2019, Liaison Officer to Joint Interagency Task Force South. Planned air support for counter-narcotics operations.
<https://www.southcom.mil/News/PressReleases/Article/2225606>

Flight Information

Aircraft: E-3B/C/G AWACS
Rating: Air Battle Manager
Flight Hours: 800+ (300+ combat)
Certified Mission Commander

Selected Awards & Decorations

2023 Wing Company Grade Officer of the Year
2021 Group Electronic Combat Officer of the Year
2021 Group Company Grade Officer of the Month (Deployed)
2017 Top Graduate, Air Battle Manager Training
Distinguished Graduate, U.S. Air Force ROTC Field Training

Air Medal with 1 Oak Leaf Cluster
Inherent Resolve Campaign Medal with 1 Service Star
Air and Space Commendation Medal
Meritorious Unit Award with 1 Oak Leaf Cluster
Combat Readiness Medal

Air and Space Expeditionary Service Ribbon, Gold Border with 1 Oak Leaf Cluster
Global War on Terrorism Service Medal
National Defense Service Medal

REFERENCES

Details and contact information available upon request.

Anindya Maiti, Ph.D., Assistant Professor of Computer Science and Data Science, University of Oklahoma

Christopher Collins, Ph.D., Professor of Human Resource Studies, ILR School, Cornell University

Colonel Keven Coyle, Chief, USFK Commander's Initiatives Group