

Ananth A. Jillepalli

Curriculum Vitae

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Up-to-date as of: 16 June 2025

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Google Scholar: <https://scholar.google.com/citations?user=PuDGHYAAAAAJ> || GitHub: <https://github.com/ajillepalli>

ResearchGate: <https://www.researchgate.net/profile/Ananth-Jillepalli> || Meeting: [Book time to meet with me](#)

EDUCATION:

University of Idaho (UIIdaho)

Doctor of Philosophy (Ph.D.) in Computer Science (CS), GPA: 4.0 May 2020

Master of Science (M.S.) in Computer Science (CS), GPA: 4.0 May 2017

Jawaharlal Nehru Technological University (JNTU)

Bachelor of Technology (B.Tech.) in Computer Science and Engineering (CSE), GPA: 3.75 May 2015

CERTIFICATION:

University of Idaho

Academic Certificate in Secure and Dependable Computing Systems May 2019

APPOINTMENTS:

Washington State University (WSU), Pullman, Washington

Scholarly Assistant Professor of Computer Science, College of Engineering Jan. 2020 – Present

Affiliate Faculty, College of Arts and Sciences Jan. 2020 – Present

Faculty Fellow, Honors College May 2025 – Present

Teaching Academy Fellow, Office of the Provost May 2025 – Present

Schweitzer Engineering Laboratories, Pullman, Washington

Associate Software Engineer, Secure Solutions Department Aug. 2019 – Dec. 2019

University of Idaho, Moscow, Idaho

Instructor, Department of Computer Science Aug. 2016 – May 2019

Research Assistant, Center for Secure and Dependable Systems Sep. 2015 – Jul. 2019

Programming Intern, Department of Chemical Engineering May 2016 – Aug. 2016

Defense Research & Development Laboratory, Hyderabad, India

Software Engineering Intern, Wireless Communications Group Sep. 2014 – Apr. 2015

COURSES DEVELOPED OR TAUGHT:

Washington State University

CptS 260: Intro to Computer Architecture; Summer '25

CptS 302: Professional Skills in Computing and Engineering; Fall '20, '21, '25

CptS 315: Intro to Data Mining; Fall '20, '21; Summer '22, '24

CptS 322: Software Engineering Principles I; Summer '24; Spring '26

CptS 327: Intro to Cybersecurity and Cryptography; Fall '20, '21, '22, '23, '24; Summer '21, '22, '23

CptS 421: Software Design Project I; Spring '20, '24, '25; Fall '20, '21, '22, '23

CptS 422: Software Engineering Principles II Fall '25

CptS 423: Software Design Project II; Spring '20, '21, '22, '23, '24; Fall '24, '25

CptS 427: Cyber Security of Wireless and Distributed Systems; Spring '26

CptS 432: Cybersecurity Capstone Project; Fall '25

CptS 451: Intro to Database Systems; Spring '20, '21, '22, '23; Summer '22, '23, '24, '25

CptS 455: Intro to Computer Networks and Security;	Fall '22, '23, '24
CptS 582: Software Testing;	Spring '25
Data 121/122: Computational Calculus I/II;	Summer '25
Data 303: Intro to SQL;	Fall '22, '23; Spring '23; Summer '23
Data 324: Data Repository Systems;	Spring '24
Data 501: Data Science Primer;	Spring '25

University of Idaho

CS 401 / 501: Contemporary Issues in CS;	Fall and Spring of '16, '17, '18
CS 447 / 547: Computer and Network Forensics;	Fall '16
CS 502: DS: Software Engr Research;	Spring '16, '17, '18, '19
CS 270: System Software;	Spring '17, '18, '19, Fall '18
CS 299 / 499: Cyber Defence II;	Spring '16, '17, '18, '19
CS 120: Computer Science I;	Fall '16

COURSE EVALUATION SUMMARY SCORES:

Full course evaluations can be found at <http://tiny.cc/jillevals>.

CPTS 327 was encoded as CPTS 427/527 until Fall 2022.

The table does not include several courses which had low enrollments or did not meet response thresholds

Semester	Courses (Credits)	Enrollment	Overall Course Performance Rating (Out of 5)	Overall Instructor Performance Rating (Out of 5)
Spring '20	CPTS 421-01 (3)	28	4.4	4.5
	CPTS 421-02 (3)	31	4.5	4.6
	CPTS 423 (3)	73	4.1	4.2
	CPTS 451 (3)	11	4.7	4.9
Fall '20	CPTS 421 (3)	90	4.7	4.6
	CPTS 315 (3)	64	4.2	4.0
	CPTS 327& (3)	67	4.2	4.3
Spring '21	CPTS 423 (3)	90	4.6	4.6
	CPTS 451 (3)	21	4.0	4.0
Summer '21	CPTS 327& (3)	39	4.6	4.7
Fall '21	CPTS 421 (3)	75	4.8	4.8
	CPTS 315 (3)	72	4.2	4.0
	CPTS 327& (3)	51	4.7	4.8
	CPTS 423 (3)	74	4.6	4.6
Spring '22	CPTS 451 (3)	33	4.5	4.7
	CPTS 315 (3)	25	4.5	4.7
Summer '22	CPTS 327 & (3)	33	4.9	4.9
	CPTS 451 (3)	30	4.6	4.6
	CPTS 327 (3)	110	4.4	4.4
	CPTS 421 (3)	119	4.4	4.5
Fall '22	CPTS 455 (3)	56	4.4	4.3
	CPTS 327 (3)	128	4.5	4.5
Spring '23	CPTS 423 (3)	119	4.5	4.6
	CPTS 451 (3)	98	3.8	3.8
Summer '23	CPTS 451 (3)	35	4.3	4.3
Fall '23	CPTS 327 (3)	105	4.2	4.5
	CPTS 421 (3)	93	4.5	4.4
	CPTS 455 (3)	63	4.2	4.4

Spring '24	CPTS 421 (3)	45	4.6	4.7
	CPTS 423 (3)	93	4.5	4.5
Summer '24	CPTS 322 (3)	25	4.5	4.5
	CPTS 451 (3)	34	4.5	4.5
	CPTS 327 (3)	120	4.5	4.6
	CPTS 423 (3)	44	4.8	4.8
Fall '24	CPTS 455 (3)	42	4.6	4.6
	CPTS 421 (3)	42	4.8	4.9
Spring '25	CPTS 582 (3)	09	4.6	4.7

HANDS-ON CYBERSECURITY TUTORIALS DEVELOPED:

Actively working on developing and editing hands-on tutorials, that are intended to be used as standalone teaching instruments by cybersecurity educators. Tutorials can be found at:

<https://github.com/ajillepalli/HandsOnCyberTutorials> || <https://github.com/MPS-ISAAC>

GRANT WRITING (AWARDED):

1. “Collaborative Research: Documenting and Assessing Individual Contributions to Team Software Projects with the PORTRAIT Framework”, Improving Undergraduate STEM Education: Directorate for STEM Education (IUSE: EDU) of the National Science Foundation (NSF), 15 pages, May 2025 to April 2028. **Awarded.** Total Award Amount: \$750,000. WSU Portion: \$255,000. Role: Lead-PI. URL: https://www.nsf.gov/awardsearch/showAward?AWD_ID=2439770
2. “Collaborative Research: EarthCube Capabilities: ICESpark: An Open-Source Big Data Platform for Science Discoveries in the New Arctic and Beyond”, Integrative and Collaborative Education and Research (ICER): Directorate for Geosciences (ICER: GEO) of the National Science Foundation (NSF), 02 pages, May 2025 to July 2025. **Awarded.** Award Amount: \$11,400. Role: Support Staff. URL: https://www.nsf.gov/awardsearch/showAward?AWD_ID=2126449
3. “Cyber Security Education and Research (CySER) Certification Program”, Academic Cyber Institutes Initiative of the Department of Defense (DoD), 02 pages, May 2024. **Awarded.** Award Amount: \$7,500. Role: Support Staff. URL: <https://cyser.wsu.edu/publications/>
4. “A Web application for Improving Holistic Health and Fitness Screening and Assessment”, Virginia Air National Guard, National Security Innovation Network (NSIN), 02 pages, March 2024. **Awarded.** Amount: \$4,400. Role: Co-PI. URL: <http://dx.doi.org/10.13140/RG.2.2.11008.75527>
5. “A WebApp for Cybersecurity Vulnerabilities and their Mitigations”, University R&D Office of the Pacific Northwest National Labs (PNNL), 02 pages, January 2024. **Awarded.** Amount: \$8,246. Role: Co-PI. URL: <http://dx.doi.org/10.13140/RG.2.2.17719.64164>
6. “A Mobile App to Identify Safe Routes for Pedestrians in Pullman”, College Hill Association of Pullman, 02 pages, August 2023. **Awarded.** Amount: \$7,200. Role: Co-PI. URL: <https://pullman.wsu.edu/2024/05/13/making-the-hills-more-walkable/>
7. “Cultivating GitHub Enterprise Tool Usage in Education”, Microsoft Corporation – GitHub Subdivision, 06 pages, August 2023. **Awarded.** Amount: \$60,190. Renewed annually upon a successful audit with no end date. Role: PI. URL: <https://news.wsu.edu/announcements/wsu-github-campus/>, <https://github.com/enterprises/wsu-edu>
8. “Cybersecurity Education”, Juniper Networks Cloud and Automation Academy, 04 pages, August 2023. **Awarded.** Amount: \$13,300. Role: Co-PI. URL: <https://partnertraining.juniper.net/>
9. “Cybersecurity Club Equipment”, Student Technology Fee Committee of the Washington State University (WSU), 02 pages, March 2023. **Awarded.** Amount: \$7,920. Role: Co-PI. URL: <http://dx.doi.org/10.13140/RG.2.2.34496.85764>

10. “Latent Probabilistic Model of News Sources”, Academic Outreach Office of the Army Cyber Institute (ACI), United States Military Academy at Westpoint, 02 pages, February 2022. **Awarded.** Amount: \$8,200. Role: Co-PI. URL: <http://dx.doi.org/10.13140/RG.2.2.29463.69287>
11. “Designing and Testing Scalable Data Lakes: AWS”, University R&D Office of the Pacific Northwest National Labs (PNNL), 02 pages, August 2021. **Awarded.** Amount: \$8,160. Role: PI. URL: <http://dx.doi.org/10.13140/RG.2.2.12686.47688>
12. “Tuition Waivers for Graduate Teaching Assistants”, University of Idaho Provost’s Office, 15 pages, December 2016. **Awarded.** Award Amount: \$2,300,000. Role: Support Staff. URL: <https://www.uiargonaut.com/2018/02/21/ui-plans-raises-for-tas/>

GRANT WRITING (UNAWARDED):

1. “A Web Application for Improving Bootstrapping of Commercial Product Innovation at Boeing Using a Generative Artificial Intelligence (GenAI) Large Language Model”, The Joint Center for Aerospace Technology Innovation (JCATI), State of Washington, 08 pages, July 2025 to June 2026. **Unawarded.** Total Award Amount: \$240,000. WSU Portion: \$120,000. Role: Lead-PI.
2. “Harnessing Artificial Intelligence, Machine Learning, and Social Determinants of Health to Predict Likelihood of Potential Opioid Overdose in Washington State”, Injury and Violence Prevention Data Science Demonstration Project, American Public Health Association (APHA), 08 pages, April 2025 to April 2026. **Unawarded.** Award Amount: \$200,000. Role: Co-PI.
3. “Cybersecurity Literacy Curriculum for Eight Vulnerable Sub-Populations in the State of Washington”, RFP No. WSBO 25-004, Department of Commerce, State of Washington, 15 pages, April 2025 to December 2027. **Unawarded.** Award Amount: \$2,409,035. Role: Co-PI.
4. “A Premature Mortality Predictor App for Washington State Using Social Determinants of Health”, AI For Good Lab, Microsoft Research, 08 pages, August 2025 to May 2027. **Unawarded.** Award Amount: \$93,000. Role: Lead-PI.
5. “Collaborative Research: SaTC: EDU: Fostering Cybersecurity Competencies through Simulated Audits”, Secure and Trustworthy Cyberspace (SaTC) program of the National Science Foundation (NSF), 15 pages, Feb. 2024. **Unawarded.** Total Award Amount: \$500,000. WSU Portion: \$140,000. Role: Co-PI.
6. “Hierarchical Adversarial Risk Assessment Extensible (HARAE) Framework for Wastewater Treatment Facilities”, Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII) of the National Science Foundation (NSF), 15 pages, May 2021. **Unawarded.** Award Amount: \$175,000. Role: Senior Personnel.

FUND RAISING:

1. Computer Science Capstone Program at WSU: \$85,250 January 2020 – Present
2. Funding for Graduate Student Organizations at UIIdaho: \$37,325 August 2016 – May 2019

PEER-REVIEWED JOURNAL PUBLICATIONS:

- [J016] A. A. Jillepalli, and G. Nurmukhametov, “A Quantitative Comparison of the Effectiveness of Traditional and Flipped Pedagogical Models in an Intro to Cybersecurity Course at a Public University”, in *Transactions on Education (ToE)*, IEEE, 08 pages, under review.
- [J015] A. A. Jillepalli, “Examining the Impact of Open AI’s ChatGPT and GitHub’s CoPilot on Time to Completion in Upper-Level Undergraduate Software Programming Assignments”, in *Transactions on Education (ToE)*, IEEE, 08 pages, under review.
- [J014] A. H. Alkhoreem, D. Conte de Leon, J. Song, and A. A. Jillepalli, “A Structured and Comprehensive Literature Survey on Access Control Delegation Models and their Properties and An Analysis of Knowledge Gaps”, in *Nature: Computer Science*, Springer, under review.

- [J013] A. H. Alkhoreem, D. Conte de Leon, **A. A. Jillepalli**, and J. Song, “Graph-based Formal Modeling and Implementation of Access Control Policies with Automated Conflict and Redundancy Detection”, in *International Journal of Information Security*, Springer, under review.
- [J012] F. T. Sheldon, Y. Saleh, M. D. Cox, **A. A. Jillepalli**, B. Rimal, and A. A. Rahim, “Review and Taxonomy of Existing Sustainable Smart City IoT Projects”, in *Access*, IEEE, under review.
- [J011] A. K. Joens, **A. A. Jillepalli**, and F. T. Sheldon, “Trustworthy High-Performance Multiplayer Games with Trust-but-Verify Protocol Sensor Validation”, in *Sensors*, MDPI, Volume: 24, Issue 14, pp. 4737-4752, 15 pages, July 2024. DOI: <https://doi.org/10.3390/s24144737>
- [J010] S. Steiner, **A. A. Jillepalli**, and D. Conte de Leon, “A Survey of Cloud-hosted, Publicly-available, Cyber-ranges for Educational Institutions”, in *Journal of Computing Sciences in Colleges (JCSC)*, The Consortium for Computing Sciences in Colleges. Volume: 38, Issue: 1, ISSN: 1937-4771, EISSN: 1937-4763, pp. 68-77, 10 pages, Nov. 2022. URL: <https://dl.acm.org/doi/abs/10.5555/3575618.3575625>
- [J009] **A. A. Jillepalli**, D. Conte de Leon, J. Alves-Foss, C. L. Jeffery, and F. T. Sheldon, “A Formal Model for HESTIA: an Automated, Adversary-aware Risk Assessment Process for Cyber Infrastructure”, in *Access*, IEEE, Volume: 10, Issue: 01, pp. 79805-79814, 38 pages, Aug. 2022. EISSN: 2169-3536. DOI: <https://dx.doi.org/10.1109/ACCESS.2022.3197195>
- [J008] K. Albulayhi, Q. A. Al-Haija, S. A. Alsuhibany, **A. A. Jillepalli**, M. Ashrafuzzaman, and F. T. Sheldon, “IoT Intrusion Detection Using Machine Learning with a Hybrid Feature Selection Approach”, in *Applied Sciences*, MDPI, Volume: 12, Issue: 10, pp. 5015-5045, 30 pages, May 2022. DOI: <https://doi.org/10.3390/app12105015>
- [J007] **A. A. Jillepalli**, D. Conte de Leon, S. Steiner, and J. Alves-Foss, “Analysis of Web Browser Security Configuration Options”, in *Transactions on Internet & Information Systems (TIIS)*, The Korean Society for Internet Information, Volume: 12, Issue: 12, ISSN: 1976-7277, pp. 6139-6160, 22 pages, Dec. 2018. DOI: <https://doi.org/10.3837/tiis.2018.12.028>
- [J006] D. Conte de Leon, **A. A. Jillepalli**, Victor J. House, J. Alves-Foss, and F. T. Sheldon, “Tutorials and Laboratory for Hands-on OS Cybersecurity Instruction”, in *Journal of Computing Sciences in Colleges (JCSC)*, The Consortium for Computing Sciences in Colleges, Volume: 34, Issue: 1, ISSN:1937-4771, EISSN:1937-4763, pp. 242-254, 13 pages, Oct. 2018. URL: <https://dl.acm.org/citation.cfm?id=3280530>
- [J005] **A. A. Jillepalli**, D. Conte de Leon, F. T. Sheldon, and M. A. Haney, “Enterprise-level Hardening of Web Browsers for Microsoft Windows”, in *International Journal of Computing and Digital Systems (IJCDS)*, University of Bahrain’s Scientific Publishing Center, Volume: 7, Issue: 5, EISSN: 2210-142X, pp. 261-274, 14 pages, Sept. 2018. URL: <https://journal.uob.edu.bh/handle/123456789/3209>
- [J004] **A. A. Jillepalli**, D. Conte de Leon, Y. Chakhchoukh, M. Ashrafuzzaman, B. K. Johnson, F. T. Sheldon, J. Alves-Foss, P. T. Tomic, and M. A. Haney, “An Architecture for HESTIA: High-level and Extensible System for Training and Infrastructure risk Assessment”, in *International Journal of Internet of Things and Cyber-Assurance (IJITCA)*, Inderscience, Volume: 1, Issue: 2, ISSN: 2059-7967, EISSN: 2059-7975, pp. 173-193, 21 pages, Jun. 2018. DOI: <https://doi.org/10.1504/IJITCA.2018.092478>
- [J003] **A. A. Jillepalli**, D. Conte de Leon, and F. T. Sheldon, “CERES NetSec: Hands-On Network Security Tutorials”, in *Journal of Computing Sciences in Colleges (JCSC)*, The Consortium for Computing Sciences in Colleges, Volume: 33, Issue: 5, ISSN:1937-4771, EISSN:1937-4763, pp. 88-96, 09 pages, May 2018. URL: <https://dl.acm.org/citation.cfm?id=3204996>
- [J002] D. Conte de Leon, A. Q. Stalick, **A. A. Jillepalli**, M. A. Haney, and F. T. Sheldon, “Blockchain: Properties and misconceptions”, in *Asia-Pacific Journal of Innovation and Entrepreneurship (APJIE)*, Emerald, Volume: 11, Issue: 3, ISSN: 2398-7812, pp. 286-300, 15 pages, Oct. 2017. DOI: <https://doi.org/10.1108/APJIE-12-2017-034>
- [J001] D. Conte de Leon, M. G. Brown, **A. A. Jillepalli**, A. Q. Stalick, and J. Alves-Foss, “High-Level and Formal Router Policy Verification”, in *Journal of Computing Sciences in Colleges (JCSC)*, The Consortium for

Computing Sciences in Colleges, Volume: 33, Issue: 1, ISSN:1937-4771, EISSN:1937-4763, pp. 118-128, 11 pages, Oct. 2017. URL: <https://dl.acm.org/citation.cfm?id=3144631>

PEER-REVIEWED CONFERENCE PUBLICATIONS:

- [C024] A. A. Jillepalli, J. Crabb, and A. Gebremedhin, "Impact of Industrial Certifications as Part of Graded Coursework in an Introductory Cybersecurity Course", in *57th Annual Technical Symposium for Special Interest Group in Computer Science Education (SIGCSE TS)*, ACM, under review.
- [C023] A. A. Jillepalli, D. Rice, and A. Gebremedhin, "Examining the Impact of Instructor-Client Mentoring in CS Capstone Courses at a Public University", in *57th Annual Technical Symposium for Special Interest Group in Computer Science Education (SIGCSE TS)*, ACM, under review.
- [C022] A. A. Jillepalli, D. Rice, and A. Gebremedhin, "Effects of Academic, Industry, and Service-Learning Project Types in CS Capstone Courses", in *57th Annual Technical Symposium for Special Interest Group in Computer Science Education (SIGCSE TS)*, ACM, under review.
- [C021] Y. J. Reimer, A. A. Jillepalli, C. Hundhausen, and O. Adesope, "The PORTRAIT Pedagogy: Assessing Individual Contributions to Team-based Software Projects", in *57th Annual Technical Symposium for Special Interest Group in Computer Science Education (SIGCSE TS)*, ACM, under review.
- [C020] C. Hotchkiss, A. A. Jillepalli, S. Steiner, D. Conte de Leon, and B. K. Johnson, "Building and Testing an Economic Faraday Cage for Wireless, IoT Computing Education and Research", in *Proceedings of the 130th ASEE Annual Conference and Exposition*, Baltimore, Maryland, USA, 15 pages, Jun. 2023. URL: <https://peer.asee.org/43340>
- [C019] A. A. Jillepalli, H. Challa, A. Gress, R. G. Bainy, Y. Chakhchoukh, D. Conte de Leon, and B. K. Johnson, "Hands-on Lab Exercises for Onsite and Remote Education Delivery in a CPS Communication Systems Course", in *Proceedings of the 130th ASEE Annual Conference and Exposition*, Baltimore, Maryland, USA, 11 pages, Jun. 2023. URL: <https://peer.asee.org/43076>
- [C018] A. G. Miles, M. J. Holman, A. A. Jillepalli, D. Conte de Leon, Y. Chakhchoukh, B. K. Johnson, and H. L. Hess, "An Integrated Transactive Energy Market and Distribution Grid Analysis Platform", in *Proceedings of the 9th CIGRE Grid of the Future Symposium (GOTF)*, Providence, Rhode Island, USA, 17 pages, Oct. 2021. URL: <https://cigre-usnc.org/2021-grid-of-the-future-papers/>
- [C017] M. Ashrafuzzaman, S. Das, A. A. Jillepalli, Y. Chakhchoukh, and F. T. Sheldon, "Elliptic Envelope Based Detection of Stealthy False Data Injection Attacks in Smart Grid Control Systems", in *Proceedings of the 11th IEEE Symposium Series on Computational Intelligence (SSCI)*, Canberra, New South Wales, Australia, pp. 1-7, 07 pages, Dec. 2020. DOI: <https://doi.org/10.1109/SSCI47803.2020.9308523>
- [C016] D. L. Marino, C. S. Wickramasinghe, K. Amarasinghe, H. Challa, P. Richardson, A. A. Jillepalli, B. K. Johnson, C. Rieger, and M. Manic, "Cyber and Physical Anomaly Detection in Smart-Grids", in *Proceedings of the 12th Resilience Week (RWS) Symposium*, San Antonio, Texas, USA, 07 pages, Nov. 2019. DOI: <https://doi.org/10.1109/RWS47064.2019.8972003>
- [C015] I. A. Oyewumi, A. A. Jillepalli, P. Richardson, M. Ashrafuzzaman, B. K. Johnson, Y. Chakhchoukh, M. A. Haney, F. T. Sheldon, and D. Conte de Leon, "ISAAC: The Idaho CPS Smart Grid Cybersecurity Testbed", in *Proceedings of the 3rd IEEE Texas Power and Energy Conference (TPEC)*, College Station, Texas, US, 06 pages, Feb. 2019. DOI: <https://doi.org/10.1109/TPEC.2019.8662189>
- [C014] A. A. Jillepalli, D. Conte de Leon, I. A. Oyewumi, J. Alves-Foss, B. K. Johnson, C. L. Jeffery, Y. Chakhchoukh, M. A. Haney, and F. T. Sheldon, "Formalizing an Automated, Adversary-aware Risk Assessment Process for Critical Infrastructure", in *Proceedings of the 3rd IEEE Texas Power and Energy Conference (TPEC)*, College Station, Texas, US, 06 pages, Feb. 2019. DOI: <https://doi.org/10.1109/TPEC.2019.8662167>
- [C013] I. A. Oyewumi, H. Challa, A. A. Jillepalli, P. Richardson, Y. Chakhchoukh, B. K. Johnson, D. Conte de Leon, F. T. Sheldon, and M. A. Haney, "Attack Scenario-based Validation of the Idaho CPS Smart Grid Cybersecurity

- Testbed (ISAAC)”, in *Proceedings of the 3rd IEEE Texas Power and Energy Conference (TPEC)*, College Station, Texas, US, 06 pages, Feb. 2019. DOI: <https://doi.org/10.1109/TPEC.2019.8662168>
- [C012] R. K. Abercrombie, B. Ollis, F. T. Sheldon, and **A. A. Jillepalli**, “Microgrid Disaster Resiliency Analysis: Reducing Costs in Continuity of Operations (COOP) Planning”, in *Proceedings of the 52nd Hawaii International conference on System Sciences (HICSS)*, Maui, Hawaii, US, 10 pages, Jan. 2019. DOI: <http://hdl.handle.net/10125/59789>
- [C011] **A. A. Jillepalli**, D. Conte de Leon, B. K. Johnson, Y. Chakhchoukh, I. A. Oyewumi, M. Ashrafuzzaman, F. T. Sheldon, J. Alves-Foss, and M. A. Haney, “METICS: A Holistic Cyber Physical System Model for IEEE 14-bus Power System Security”, in *Proceedings of the 13th IEEE International Conference on Malicious and Unwanted Software (MALCON)*, Nantucket, Massachusetts, USA, 08 pages, Oct. 2018. DOI: <https://doi.org/10.1109/MALWARE.2018.8659367>
- [C010] **A. A. Jillepalli**, D. Conte de Leon, M. Ashrafuzzaman, Y. Chakhchoukh, B. K. Johnson, F. T. Sheldon, J. Alves-Foss, P. T. Tasic, and M. A. Haney, “HESTIA: Adversarial Modeling and Risk Assessment for CPCS”, in *Proceedings of the 14th IEEE International Wireless Communications and Mobile Computing Conference (IWCMC)*, Cyprus, pp. 226-231, 06 pages, Jun. 2018. DOI: <https://doi.org/10.1109/IWCMC.2018.8450297>
- [C009] M. Ashrafuzzaman, Y. Chakhchoukh, **A. A. Jillepalli**, P. T. Tasic, D. Conte de Leon, F. T. Sheldon, and B. K. Johnson, “Detecting Stealthy False Data Injection Attacks in Power Grid using Deep Learning”, in *Proceedings of the 14th IEEE International Wireless Communications and Mobile Computing Conference (IWCMC)*, Limassol, Cyprus, pp. 219-225, 07 pages, Jun. 2018. DOI: <https://doi.org/10.1109/IWCMC.2018.8450487>
- [C008] **A. A. Jillepalli**, D. Conte de Leon, and J. Alves-Foss, “Operational Characteristics of Modern Malware: PCO Threats”, in *Proceedings of the 5th Cybersecurity Symposium (CYBERSEC)*, an ACM publication, Coeur d’Alene, Idaho, USA, Article No. 5, 06 pages, Apr. 2018. URL: <https://doi.org/10.1145/3212687.3212864>
- [C007] S. Steiner, D. Conte de Leon, and **A. A. Jillepalli**, “Hardening Web Applications Using a Least Privilege DBMS Access Model”, in *Proceedings of the 5th Cybersecurity Symposium (CYBERSEC)*, an ACM publication, Coeur d’Alene, Idaho, USA, Article No. 4, 06 pages, Apr. 2018. URL: <https://doi.org/10.1145/3212687.3212863>
- [C006] V. S. Koganti, M. Ashrafuzzaman, **A. A. Jillepalli**, and F. T. Sheldon, “A Virtual Testbed for Security Management of Industrial Control Systems”, in *Proceedings of the 12th IEEE International Conference on Malicious and Unwanted Software (MALCON)*, San Juan, Puerto Rico, USA, pp. 85-90, 05 pages, Jan. 2018. DOI: <https://doi.org/10.1109/MALWARE.2017.8323960>
- [C005] **A. A. Jillepalli**, D. Conte de Leon, S. Steiner, F. T. Sheldon, and M. A. Haney, “Hardening the Client-side: A Guide to Enterprise-level Hardening of Web Browsers”, in *Proceedings of the 15th IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC)*, Orlando, Florida, USA, pp. 687-692, 05 pages, Nov. 2017. DOI: <https://doi.org/10.1109/DASC-PICom-DataCom-CyberSciTec.2017.120>
- [C004] **A. A. Jillepalli**, F. T. Sheldon, D. Conte de Leon, M. Haney, and R. K. Abercrombie, “Security Management of Cyber Physical Control Systems Using NIST SP 800-82r2”, in *Proceedings of the 13th IEEE International Wireless Communications and Mobile Computing Conference (IWCMC)*, Valencia, Spain, pp. 1864-1870, 06 pages, Jun. 2017. DOI: <http://doi.org/10.1109/IWCMC.2017.7986568>
- [C003] **A. Jillepalli**, D. Conte de Leon, S. Steiner, and F. T. Sheldon, “HERMES: A High-Level Policy Language for High-Granularity Enterprise-wide Secure Browser Configuration Management”, in *Proceedings of the 7th IEEE Symposium Series on Computational Intelligence (SSCI)*, Athens, Attica, Greece, pp. 1-9, 09 pages, Dec. 2016. DOI: <http://doi.org/10.1109/SSCI.2016.7849914>
- [C002] D. Conte de Leon, V. A. Bandari, **A. Jillepalli**, and F. T. Sheldon, “Using a Knowledge and Policy-Based Security Orchestration Tool to Reduce the Risk of Browser Compromise”, in *Proceedings of the 7th IEEE Symposium Series on Computational Intelligence (SSCI)*, Athens, Attica, Greece, pp. 1-8, 08 pages, Dec. 2016. DOI: <http://doi.org/10.1109/SSCI.2016.7849910>

- [C001] A. A. Jillepalli and D. Conte de Leon, “An Architecture for a Policy-Oriented Web Browser Configuration Management System”, in *Proceedings of the 40th IEEE Computer Software and Applications Conference (COMPSAC)*, Athens, Attica, Greece, December 2016, Atlanta, Georgia, US, pp. 382-387, 05 pages, Aug. 2016. DOI: <http://doi.org/10.1109/COMPSAC.2016.50>

DISSERTATION / THESIS PUBLICATIONS:

1. A. A. Jillepalli, “HESTIA-Semi-Automatic and Adversary-Aware Risk Assessment of Critical Infrastructure Systems”, *Dissertation in fulfillment of the Doctor of Philosophy in Computer Science degree*, University of Idaho, Moscow, Idaho, US, 177 pages, Aug. 2020. DOI: https://www.lib.uidaho.edu/digital/etd/items/jillepalli_idaho_0089e_11922.html
2. A. Jillepalli, “HiFiPol:Browser - Securing the Web Browsing Ecosystem”, *Thesis in fulfillment of the Master of Science in Computer Science degree*, University of Idaho, Moscow, Idaho, US, 83 pages, May 2017. DOI: <https://search.proquest.com/docview/1925701646>
3. A. Jillepalli, “Radar Signal Data De-noising by Implementation of Haar Wavelet Transformation”, *Thesis in fulfillment of the Bachelor of Technology in Computer Science & Engineering degree*, Jawaharlal Nehru Technological University, Hyderabad, Telangana, India, 17 pages, May 2015. DOI: <https://ijret.org/volumes/2015v04/i05/IJRET20150405003.pdf>

MANUSCRIPTS BEING PREPARED:

1. A. A. Jillepalli, G. Nurmukhametov, and A. Gebremedhin, “A Quantitative Comparison of the Effectiveness of Traditional and Flipped Pedagogical Models in an Advanced Computer Networks & Security Course at a Public University”, in *Transactions on Education (ToE)*, IEEE, in preparation.

ACCOLADES:

- | | |
|--|-------------|
| 1. Reid Miller Excellence in Teaching Award, Voiland College, WSU | Spring 2025 |
| 2. Teaching Excellence Award, School of EECS, WSU | Spring 2025 |
| 3. Outstanding Publication in the Scholarship of Teaching in Higher Education, WSU | Spring 2025 |
| 4. Writing Occurring Rhetorically in the Disciplines (WORD) Faculty Fellow, WSU | Spring 2025 |
| 5. Peer Observation in Support of Instructional Excellence (POSIE) Faculty Fellow, WSU | Fall 2024 |
| 6. Student Career Preparedness Excellence Faculty Fellow, Provost's Office, WSU | Fall 2024 |
| 7. Learn, Inspire, Foster, Transform (LIFT) Faculty Fellow, Provost's Office, WSU | Summer 2024 |
| 8. Outstanding Student Mentoring and Outreach Excellence Award, School of EECS, WSU | Spring 2024 |
| 9. Career Expo Faculty Achievement Award, Provost's Office, WSU | Spring 2024 |
| 10. Student Engagement & Retention Award, Provost's Office, WSU | Summer 2021 |
| 11. “Noteworthy Dissertation” award, Graduate & Professional Students Association, UIIdaho | Spring 2020 |
| 12. Outstanding Doctoral Research award, UIIdaho | Spring 2019 |
| 13. First place, Graduate Research Presentation Competition, IEEE Palouse Section | Spring 2019 |
| 14. Third place, Innovation Showcase Competition (Interdisciplinary track), UIIdaho | Spring 2019 |
| 15. Distinguished Graduate Student Leader award, UIIdaho | Spring 2019 |
| 16. Distinguished Service award, Graduate & Professional Students Association, UIIdaho | Spring 2019 |
| 17. Love of Learning award, The Honor Society of Phi Kappa Phi | Fall 2018 |
| 18. Graduate Student Leader award, UIIdaho | Fall 2018 |
| 19. Publication award, Graduate & Professional Students Association, UIIdaho | Summer 2018 |
| 20. Distinguished Service award, Graduate & Professional Students Association, UIIdaho | Spring 2018 |
| 21. Second place, Innovation Showcase Competition (Interdisciplinary track), UIIdaho | Spring 2018 |
| 22. Graduate Student Leader award, UIIdaho | Spring 2018 |
| 23. Best Poster Presentation award, Cybersecurity Symposium (CYBERSEC) of 2018 | Spring 2018 |
| 24. Outstanding PhD Student award, College of Engineering, UIIdaho | Spring 2018 |
| 25. Graduate Student Leader award, UIIdaho | Fall 2017 |
| 26. Travel award, Graduate & Professional Students Association, UIIdaho | Fall 2017 |
| 27. First place, 3 Minute Masters' Competition, UIIdaho | Spring 2017 |

28. “Noteworthy Masters’ Thesis” award, Graduate & Professional Students Association’s, UIIdaho	Spring 2017
29. International Student Endowment Scholarship, UIIdaho	Spring 2017
30. Graduate Student Leader award, UIIdaho	Spring 2017
31. Third place, Innovation Showcase Competition (Disciplinary track), UIIdaho	Spring 2017
32. Outstanding Academic Achievement award, International Programs Office, UIIdaho	Spring 2017
33. Ismat Ara and Dr. Abdul-Mannan Sheikh Memorial Scholarship, UIIdaho	Spring 2017
34. Travel award, IEEE Palouse Section	Spring 2017
35. Travel award, IEEE Computational Intelligence Society	Winter 2016
36. Graduate Student Leader award, UIIdaho	Fall 2016
37. Travel award, Graduate & Professional Students Association, UIIdaho	Fall 2016
38. Graduate Student Leader award, UIIdaho	Spring 2016
39. Best Senior Design Project award, JNTU	Spring 2015
40. Best Non-Technical Essay award, All India Student Council	Winter 2009

THESIS ADVISING:

1. Azan Alkhorem ; PhD in Computer Science; Committee Member;	Jan. 2021 – May 2024
2. Khalid Albulayhi ; PhD in Computer Science; Committee Member;	Jan. 2020 – Dec. 2023
3. Bushra Alkomah ; MS in Computer Science; Committee Member;	Jan. 2021 – May 2022

NON-THESIS ADVISING:

1. Shireen Bano Ahmed; MS in Computer Science; Committee Member;	Jan. 2024 – Dec. 2025
2. Sai Kolagani; MS in Computer Science; Committee Member;	Aug. 2023 – May 2025
3. Chinmay Chabbi; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
4. Varsha Mallampati; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
5. Sheheryar Pirzada; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
6. Surya Vadapalli; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
7. Srivarsha Adavath; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
8. Simarjeet Singh; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
9. Khoushik Rasumalla; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
10. Yi Chou; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
11. Asmita Acharya; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
12. Priya Damodharan; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
13. Arnav Jain; MS in Computer Science; Committee Member;	Jan. 2023 – Dec. 2024
14. Krupa Doranalu; MS in Computer Science; Committee Chair;	Aug. 2022 – May 2024
15. Sreehari Guruprasad; MS in Computer Science; Committee Chair;	Aug. 2022 – May 2024
16. Kunal Sanghvi; MS in Computer Science; Committee Member;	Aug. 2022 – May 2024
17. Abrar Abir; MS in Computer Science; Committee Member;	Aug. 2022 – May 2024
18. Priyanka Dastidar; MS in Computer Science; Committee Member;	Aug. 2022 – May 2024
19. Harshitha Girish; MS in Computer Science; Committee Chair;	Aug. 2022 – May 2024
20. Oluwafemi Ajeigbe; MS in Computer Science; Committee Chair;	Jan. 2022 – May 2023
21. Emmanuel Uyah; MS in Computer Science; Committee Chair;	Jan. 2022 – May 2023
22. Derek Nevins; MS in Computer Science; Committee Chair;	Aug. 2021 – Dec. 2023
23. Sahil Shrivastava; MS in Computer Science; Committee Chair;	Aug. 2021 – May 2023
24. Harsh Tyagi; MS in Computer Science; Committee Chair;	Aug. 2021 – May 2023
25. Madhumitha Sivakumaran; MS in Computer Science; Committee Member;	Aug. 2021 – May 2023
26. Prasanth Athaluri; MS in Computer Science; Committee Member;	Aug. 2021 – May 2023
27. Femi Ajeigbe; MS in Computer Science; Committee Member;	Aug. 2021 – May 2023
28. Muhammad Musaddin; MS in Computer Science; Committee Member;	Aug. 2021 – May 2023
29. Program of study advisor for 9 Bachelor of Science students	Jan. 2020 – Dec. 2022
30. Rushabh Shah; MS in Computer Science; Committee Chair;	Aug. 2021 – Dec. 2022
31. Pin-Liang Chen; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
32. Parikshit Panwar; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
33. Sarah Alqabbani; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022

34. Aishwarya Sharma; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
35. Pallavi Sharma; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
36. Vishnu P. Chimata; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
37. Kulpreet Singh; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
38. Xinyu Liu; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
39. Tinhao Huang; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
40. Akshaya Venkatesh; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
41. Sanjitha R. Bahvirisetty; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
42. Jasmeetsingh D. Khalsa; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
43. Zicheng Gu; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
44. Pin-Liang Chen; MS in Computer Science; Committee Member;	Aug. 2021 – Dec. 2022
45. Advised over 225 Bachelor of Science graduates since January 2020	

MENTORING:

1. Undergraduate Faculty Advisor, Computer Science & Data Analytics Programs, WSU	Jan. 2020 – Present
2. Faculty Advisor, Cybersecurity Student Club, WSU	Jan. 2021 – Present
3. Cybersecurity Student Mentor, Center for Secure and Dependable Systems, UIIdaho	May 2016 – May 2018
4. International Student Mentor, International Programs Office, UIIdaho	Aug. 2016 – Dec. 2017
5. Computer Science Student Mentor, Department of Computer Science, UIIdaho	Jan. 2016 – Dec. 2016

COLLOQUIA PRESENTATIONS:

Presentation materials available upon request. Please email ajillepalli@ieee.org

1. “Cybersecurity Education: Security Design Principles”, *ACM Workshop at University of Alaska*, Fairbanks, Alaska, USA, Oct. 2024.
2. “Human-Centric Automated, Adversary-Aware Risk Assessment of Critical Infrastructure Systems”, *Research Topics Colloquium at University of Alaska*, Fairbanks, Alaska, USA, Oct. 2024.
3. “Web Browser Security Practices for Everyday Users”, *Computer Science Colloquium at Northeastern University*, Miami, Florida, USA, Sept. 2024.
4. “Principle of Least Privilege in Enterprise Security via Domain Separation”, *Cybersecurity Seminar at Texas State University*, San Marcos, Texas, USA, Aug. 2024.
5. “Data Analytics for Cybersecurity of Critical Infrastructure Systems”, *Discuss, Discourse, Disseminate with Data (D4) joint WSU-PNNL seminar series*, Pullman, Washington, USA, May 2024.
6. “HESTIA: The Semi-Automatic, Adversary-Aware Risk Assessment of Critical Infrastructure Systems”, *IEEE Palouse Section*, Pullman, Washington, USA, Mar. 2023.
7. “Role of Humans in Automated, Adversary-Aware Risk Assessment of Critical Infrastructure Systems”, *Research Issues in Cybersecurity – New Mexico Institute of Technology*, Socorro, New Mexico, USA, Feb. 2023.
8. “Brownfield Teaching Method for Data Structure Courses”, *Computer Science Colloquium – New Mexico Institute of Technology*, Socorro, New Mexico, USA, Feb. 2023.
9. “6-Point Strategy for Establishing a Center of STEM Education Excellence in New Mexico”, *Randolph Endowment Grant Competition*, Socorro, New Mexico, USA, Feb. 2023.
10. “Automating Risk Assessment of IT & OT Networks in Critical Infrastructure Organizations”, *Cybersecurity Research Seminar – Washington State University at Tri Cities*, Richland, Washington, USA, Jan. 2023.
11. “Cybersecurity Education Methods”, *Educators Meetup – State University of New York at Buffalo*, Buffalo, New York, USA, Dec. 2022.
12. “Teaching Computer Science to Non-Traditional Graduate Students”, *Align Education – The Roux Institute at Northeastern University*, Portland, Maine, USA, Dec. 2022.
13. “Cybersecurity of Industrial, Enterprise, and Decentralized Exchange (DEX) Systems”, *Futuristic Research – Kent State University*, Kent, Ohio, USA, Mar. 2022.
14. “Securing Critical Infrastructure through Dynamic Risk Assessment”, *Research Topics in Computer Science – Idaho State University*, Pocatello, Idaho, USA, Mar. 2022.
15. “Adversarial Modeling and Risk Assessment of Critical Infrastructure”, *Computer Science Research Seminar – Illinois State University*, Normal, Illinois, USA, Feb. 2022.

16. "Modern Firewalls: A Cross Layered Security Feature", *Cybersecurity Week – Illinois Wesleyan University*, Normal, Illinois, USA, Feb. 2022.
17. "HESTIA – Semi-Automatic and Adversary-Aware Risk Assessment of Critical Infrastructure Systems", *Interdisciplinary Research Issues in Computer Science – Eastern Washington University*, Spokane, Washington, USA, Jan. 2022. De facto virtual due to COVID-19.
18. "Structured Threat Vector Analysis: DFD and STRIDE", *Spokane Catalyst Cybersecurity Awareness Expo*, Spokane, Washington, USA, Jan. 2022. De facto virtual due to COVID-19.
19. "Microgrid Disaster Resiliency and Sustainability Analysis", *Sustainable Energy & Comp. Symposium – Hawaii International Conference on System Sciences*, Maui, Hawaii, USA, Jan. 2022. De facto virtual due to COVID-19.
20. "Towards Automated Adversarial Modeling and Risk Assessment of Critical Infrastructure", *Research Topics – Sacred Heart University*, Fairfield, Connecticut, USA, Feb. 2021. De facto virtual due to COVID-19.
21. "Dynamic State Estimation and Risk Assessment of Critical Infrastructure", *Research Topics in Computer Science – Idaho State University*, Pocatello, Idaho, USA, Feb. 2021. De facto virtual due to COVID-19.
22. "Cybersecurity of Critical Infrastructure", *(ISC)² Industry – Academia Luncheon*, Orlando, Florida, USA, Nov. 2020. De facto virtual due to COVID-19.
23. "HESTIA - Semi-Automatic and Adversary-Aware Risk Assessment of Critical Infrastructure Systems", *Public Defense of Dissertation – University of Idaho*, Moscow, Idaho, USA, Jul. 2020. De facto virtual due to COVID-19.
24. "An Adversary-aware Risk Assessment System for Resiliency of Critical Infrastructure", *Lunch & Learn – Gonzaga University*, Spokane, Washington, USA, Mar. 2020.
25. "Enhancing Security of Critical Infrastructure Organizations using Adversary-aware Risk Assessment", *Computer Science Research Colloquium – Syracuse University*, Syracuse, New York, USA, Mar. 2020.
26. "HESTIA: Adversary-aware Modeling and Risk Assessment for Critical Infrastructure", *Graduate Student Presentations @ IEEE Palouse Section*, Moscow, Idaho, USA, Apr. 2019.
27. "Towards Automated Adversarial Modeling and Risk Assessment of Critical Infrastructure", *Innovation Showcase – University of Idaho*, Moscow, Idaho, USA, Apr. 2019.
28. "Building Resiliency in IoT Ecosystems using Adversary-aware Risk Assessment", *Contemporary Issues in Computer Science – University of Wyoming*, Laramie, Wyoming, USA, Mar. 2019.
29. "Domain Separation and Principle of Least Privilege in Enterprise Security", *Cybersecurity Seminar at Dakota State University*, Madison, Dakota, USA, Nov. 2018.
30. "METICS: A Holistic Cyber Physical System Model for IEEE 14-bus Power System Security", *13th IEEE International Conference on Malicious and Unwanted Software (MALCON)*, Nantucket, Massachusetts, USA, Oct. 2018.
31. "HESTIA: Adversarial Modeling and Risk Assessment for CPCS", *Innovation Showcase – University of Idaho*, Moscow, Idaho, USA, Apr. 2018.
32. "Operational Characteristics of Modern Malware: PCO Threats", *5th Cybersecurity Symposium*, Coeur d'Alene, Idaho, USA, Apr. 2018.
33. "CERES NetSec: Hands-On Network Security Tutorials", *Mid-South Conference – Consortium for Computing Sciences in Colleges*, Christian Brothers University, Memphis, Tennessee, USA, Apr. 2018.
34. "GPSA at UIIdaho – From an administrative perspective", *31st Annual National Conference of National Association of Graduate-Professional Students*, Syracuse University, Syracuse, New York, USA, Nov. 2017.
35. "HESTIA: High-level and Extensible System for Training and Infrastructure risk Assessment", *CREDC Pacific Northwest Industry Workshop*, Pacific Northwest National Lab - Richland, Washington, USA, Nov. 2017.
36. "Tenure as a Graduate Student at University of Idaho", *6th Annual Grad 101 Workshop*, University of Idaho, Moscow, Idaho, USA, Aug. 2017.
37. "HiFiPol:Browser – Securing the Web Browsing Ecosystem", *Public Defense of Thesis – University of Idaho*, Moscow, Idaho, USA, Apr. 2017.
38. "HiFiPol:Browser – Securing the Web Browsing Ecosystem", *Innovation Showcase – University of Idaho*, Moscow, Idaho, USA, Apr. 2017.
39. "Remote and Policy-Oriented Web-Browser Security Management", *Adventures with IEEE - IEEE Palouse Section*, Moscow, Idaho, USA, Feb. 2017.
40. "HERMES: A High-Level Policy Language for High-Granularity Enterprise-wide Secure Browser Configuration Management", *7th IEEE Symposium Series on Computational Intelligence*, Athens, Attica, Greece, Dec. 2016.

41. “Using a Knowledge and Policy-Based Security Orchestration Tool to Reduce the Risk of Browser Compromise”, *7th IEEE Symposium Series on Computational Intelligence*, Athens, Attica, Greece, Dec. 2016.
42. “High-level Policy Specification Language: HERMES”, *Innovation Showcase – University of Idaho*, Moscow, Idaho, USA, Apr. 2016.
43. “Analysis of Liver Disorder Prediction by Implementation of Data Mining, using WEKA Tool”, *Computer Society of India 2015 Conference*, Hyderabad, India, Feb. 2015.

POSTER PRESENTATIONS:

1. “PORTRAIT Tool for Streamlining Assessment of Team Software Projects”, *56th Annual Technical Symposium for Association of Computing Machinery Special Interest Group in Computer Science Education (ACM SIGCSE TS)*, Pittsburg, Pennsylvania, USA, February 2025.
2. “HESTIA: Adversarial Modeling and Risk Assessment for CPCS”, *27th UIdaho Annual Engineering Expo*, Moscow, Idaho, USA, April 2019.
3. “HESTIA: Adversarial Modeling and Risk Assessment for CPCS”, *5th Cybersecurity Symposium (CYBERSEC)*, Coeur d’Alene, Idaho, USA, April 2018.
4. “HESTIA: High-level and Extensible System for Training and Infrastructure risk Assessment”, *CREDC Pacific Northwest Industry Workshop*, Pacific Northwest National Lab - Richland, Washington, USA, November 2017.

ACADEMIC SERVICE:

- | | |
|---|-----------------------|
| 1. Voting faculty member, Faculty hiring committee for Global Comp Sci program, WSU | Aug. 2025 – Present |
| 2. Voting faculty member, ABET assessment committee for EECS, WSU | Jun. 2023 – Present |
| 3. Voting faculty member, Curriculum committee for Data Analytics program, WSU | Aug. 2020 – Present |
| 4. IT Task Force Chair, Voiland College of Engineering | Apr. 2024 – Present |
| 5. Chair, IEEE Computer Society Palouse Chapter | Jan. 2023 – Present |
| 6. Computing programs representative, Experience WSU recruitment events | 2025 – Present |
| 7. Faculty judge, Showcase for Undergraduate Research and Creative Activities at WSU | 2023 – Present |
| 8. Faculty judge, WSU EECS Capstone Poster Competitions | Apr. 2025 – Present |
| 9. Voting faculty member, Faculty hiring committee for Cybersecurity program, WSU | March 2025 – May 2025 |
| 10. Voting faculty member, Faculty hiring committee for Data Analytics program, WSU | Aug. 2022 – May 2025 |
| 11. Faculty judge, Annual Digital Hackathon for AgAID Institute | 2025 |
| 12. Faculty judge, ACM Crimson Code Hackathon, WSU | 2021, 2022, 2023 |
| 13. Research advisor, Brownfield Project, IUSE program of NSF | Aug. 2020 – Aug. 2023 |
| 14. Cybersecurity Curriculum Task Force Chair, School of EECS | Jun. 2022 – Jun. 2023 |
| 15. President (Elected), Graduate & Prof. Student Assoc., UIdaho | May 2018 – May 2019 |
| 16. Vice President (Elected), Graduate & Prof. Student Assoc., UIdaho | May 2017 – Apr. 2018 |
| 17. Finance Director (Appointed), Graduate & Prof. Student Assoc., UIdaho | May 2016 – Apr. 2017 |
| 18. Voting member, Graduate Council, UIdaho | Jan. 2019 – May. 2019 |
| 19. Voting member, Sustainability Center’s Funding Board, UIdaho | Aug. 2018 – Dec. 2018 |
| 20. Voting member, Ombudsperson Search Committee, UIdaho | May 2018 – Aug. 2018 |
| 21. Voting member, Student Activity Fee Committee, UIdaho | Jan. 2018 – May 2018 |
| 22. Mentor, Cybersecurity Defense Club, UIdaho | May 2016 – Apr. 2017 |
| 23. Voting member, University Budgeting and Finance Committee, UIdaho | May 2016 – Apr. 2017 |
| 24. Systems Administrator, Reconfig. Attk-Def. Instruct. Comp. Lab. (RADICL), UIdaho | Jan. 2016 – Aug. 2016 |
| 25. Senator – Computer Science Dept. (Elected), Graduate & Prof. Student Assoc., UIdaho | May 2015 – Apr. 2016 |
| 26. Invited panelist, Grad 101 Workshop Series, UIdaho | Aug. 2017 – Dec. 2017 |

PEER REVIEW SERVICE:

- | | |
|--|----------------|
| 1. Computers and Security, an Elsevier journal | 2016 – Present |
| 2. Proceedings of CCSC Northwest Region, ACM | 2016 – Present |
| 3. Journal of Information Technology for Teacher Education, a Taylor & Francis journal | 2018 – Present |
| 4. Proceedings of SIGCSE Annual Technical Symposium, ACM | 2020 – Present |
| 5. Hawaii International Conference on System Sciences, University of Hawaii | 2016 – 2021 |
| 6. International Journal of Information Security, a Springer journal | 2016 – 2019 |

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|---|-------------|
| 7. Cybersecurity Symposium, University of Idaho | 2016 – 2019 |
| 8. National Cybersecurity Summit, Huntsville, Alabama | 2016 – 2017 |
| 9. Software, an IEEE journal | 2016 – 2017 |

HONOR SOCIETIES:

- | | |
|--|------------|
| 1. Sigma Xi, member for life through invitation | Since 2023 |
| 2. Phi Kappa Phi, member for life through invitation | Since 2018 |

PROFESSIONAL ORGANIZATION MEMBERSHIPS:

- | | |
|--|------------|
| 1. The Escal Institute of Advanced Technologies (SANS Institute), member | Since 2018 |
| 2. Information Systems Security Association (ISSA), member | Since 2017 |
| 3. IEEE Computer Society, member | Since 2016 |
| 4. IEEE Computational Intelligence Society, member | Since 2016 |
| 5. Institute of Electrical and Electronic Engineers (IEEE), member | Since 2015 |
| 6. Association of Computing Machinery (ACM), member | Since 2015 |

EXTRA-CURRICULAR VOLUNTEER SERVICE:

- | | |
|--|-----------------------|
| 1. Education & Scholarship ministry, Humanists of the Palouse | Jan. 2020 – Present |
| 2. Recycling branch, University of Idaho Sustainability Center | Jan. 2016 – Jan. 2020 |
| 3. International Program Office, University of Idaho | Sep. 2015 – Dec. 2017 |
| 4. International Student Fellowship, University of Idaho chapter | Sep. 2015 – July 2016 |
| 5. International Host Community, University of Idaho | Sep. 2015 – July 2016 |
| 6. University of Idaho Indian Students Association | Aug. 2015 – July 2016 |
| 7. Lead India 2020 National Club | Mar. 2013 – Mar. 2014 |