Eric Wayne Yocam, Ph.D., DBA

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Email: eyocam@calpoly.edu
ORCiD: orcid.org/0000-0001-8176-3867
BioSketch: ericyocam.com
Portfolio: github.com/ericyoc
LinkedIn: linkedin.com/in/ericyocam
Certificates: credly.com/users/ericyocam
Phone: (425) 943-1121

Education

Cybersecurity, Computer Engineering, and Computer Science:

Dakota State University 2026
Beacom College of Computer and Cyber Sciences
PhD Cyber Operations *GPA: 4.0/4.0*
Dissertation Title: Hybrid Neural Network Model Defenses.
Dissertation Supervisor: Varghese Vaidyan, PhD.

Syracuse University 2020
College of Engineering and Computer Science
MS Computer Engineering

California State University - Chico 2004
College of Engineering, Computer Science, and Technology
MS Computer Science
Thesis Title: A Fuzzy Enabled Edge Network Device Simulation Software Application. Thesis Supervisor: Seung Bae Im, PhD.

University of the Pacific 1990
School of Engineering
BS Computer Engineering

Business Administration and Finance:

University of Phoenix 2008
School of Advanced Studies
Doctor of Business Administration
Dissertation Title: The Extent To Which A Board Of Director's Celebrity Status Affects the Shareholder Wealth Maximization.
Dissertation Supervisor: Santosh Sambara, PhD.

Seattle University 2002
Albers School of Business and Economics
MS Finance

	University of San Diego Knauss School of Business MBA	1997
Prof. Academic Appointments	**ABET Program Evaluator**: Computer Science, Cybersecurity, and Computer Engineering	2022 – 2025
	Security Clearance: TOP SECRET/SCI, Dept. of Homeland Security	Inactive
	Lecturer, California Polytechnic State University, College of Engineering	2024 – Present
	Adjunct Assistant Professor, Dominican University of California, Barowsky School of Business	2024 – Present
	Affiliate Instructor, University of Washington, College of Built Environments	2018 – 2021
	Part Time Professor, American Public University System, School of STEM	2013 – 2018
	Adjunct Professor, University of Fairfax, Graduate School	2010 – 2015
	Adjunct Professor, City University of Seattle, School of Management	2010 – 2011
	Adjunct Professor, EC-Council University, Graduate School	2007 – 2010
Honors and Awards	**IEEE Best Paper Award** — Security, Trust and Privacy "A Novel Approach to Quantum-Resistant Selective Encryption for Agricultural Sensors with Limited Resources." 2025 IEEE 15th Annual Computing and Communication Workshop and Conference (CCWC), Las Vegas, NV. *doi: 10.1109/CCWC62904.2025.10903955*	Mar 2025
	IEEE Senior Member Institute of Electrical and Electronics Engineers. Senior Member is the highest grade of IEEE membership for which a member may apply; fewer than 10% of IEEE's 400,000+ members hold this grade.	2020
	Teaching Excellence Award University of Washington, College of Built Environments, Dept. of Urban Design and Planning	2019
	ACM Featured Reviewer Association for Computing Machinery	2018

Publications

Refereed Journal Articles

Yocam, E., et al. "A Privacy-Preserving System Design for Digital Presence Protection," *Computers, Materials & Continua*, doi: 10.32604/cmc.2023.032826. 2022

Yocam, E., et al. "5G Mobile Networks: Reviewing Security Control Correctness for Mischievous Activity," *SN Applied Sciences*, doi: 10.1007/s42452-022-05193-8. 2022

Yocam, E. "Narrow-band Internet of Things Protocol Standards: Survey of Security and Privacy Control Effectiveness," *2020 International Symposium on Networks, Computers and Communications*, doi: 10.1109/ISNCC49221.2020.9297222. 2020

Yocam, E. "Evolution on the Edge: Intelligent Devices," *IEEE Computer Society IT Professional*, doi: 10.1109/MITP.2003.1191790. 2003

Prasad, A.R., Ketema, N., **Yocam, E.**, Vaidyan, V., Comert, G., Werth, D., Buckley, R., Stone, M.R., Kothakonda, B.V. "A Novel Hybrid Quantum-Classical Path Optimization for Methane Detection Using Remote Quantum Intensity Prediction Models," *IEEE Access*, doi: 10.1109/ACCESS.2026.3675450. 2026

Kappala, A., **Yocam, E.**, Kayastha, N., Vodnala, S.R., Vaidyan, V., Comert, G., Podhradsky, A., Werth, D., Buckley, R. "A Dynamic Quantum-Resistant Selective Encryption Approach for Agricultural Sensors with Limited Resources," *IEEE Access*, doi: 10.1109/ACCESS.2026.3668608. 2026

Black, G., **Yocam, E.**, Vaidyan, V., Comert, G., Wang, Y. "From LLMs to Randomness: Analyzing Program Input Efficacy with Resource and Language Metrics," *IEEE Access*, doi: 10.1109/ACCESS.2025.3571205. 2025

Fulkerson, E., **Yocam, E.**, Vaidyan, V., Kamepalli, M., Wang, Y., Comert, G. "PyRHOH: A Meta-Learning Analysis Framework for Determining the Impact of Compilation on Malicious JavaScript Identification," *Machine Learning with Applications*, 100724, doi: 10.1016/j.mlwa.2025.100724. 2025

Jagatha, A., Kappala, A., Kamepalli, M., Vaidyan, V., **Yocam, E.**, Wang, Y., Comert, G. "A Novel Approach to Quantum-Resistant Selective Encryption for Agricultural Sensors with Limited Resources," *2025 IEEE 15th Annual Computing and Communication Workshop and Conference (CCWC)*, Las Vegas, NV, pp. 00262–00271, doi: 10.1109/CCWC62904.2025.10903955. 2025

Kothakonda, B.V., Ketema, N., Vaidyan, V., Podhradsky, A., **Yocam, E.**, Wang, Y., Comert, G. "Multi-level Post Quantum Encryption for Images with Quantum Fourier Transform," *2025 IEEE International Conference on Electro Information Technology (eIT)*, pp. 007–016, doi: 10.1109/EIT64391.2025.11103675. 2025

Rizi, A., **Yocam, E.**, Vaidyan, V., Wang, Y. "Exploring Machine Learning with FNNs for Identifying Modified DGAs Through Noise and Linear Recursive Sequences (LRS)," *2024 Cyber Awareness and Research Symposium (CARS)*, doi: 10.1109/CARS61786.2024.10778668. 2024

Gawanmeh, A., et al. "Enhanced Not Recently Used Algorithm for Cache Memory Systems in Mobile Computing," *ACR 2023, Lecture Notes in Networks and Systems*, doi: 10.1007/978-3-031-33743-7_35. 2023

Book Chapters

Yocam, E., Rizi, A., Kamepalli, M., Vaidyan, V., Wang, Y., Comert, G. "Quantum Adversarial Machine Learning and Defense Strategies: Challenges and Opportunities." In: *Quantum Robustness in Artificial Intelligence*, Springer Quantum Science and Technology Series, ed. Muhammad Usman. *doi: 10.1007/978-3-032-11153-1_4* 2026

Books

Yocam, E. *Cyber Inference: Unraveling Consciousness — Book 1 of The Convergence Chronicles.* Hard Science Fiction. Independent Publisher. 2025

Yocam, E., Choi, A. *Corporate Governance: A Board Director's Pocket Guide.* Independent Publisher. 2014

Manuscripts Under Review

Yocam, E., Vaidyan, V., Comert, G., Kalathas, P., Wang, Y., Mwakalonge, J.L. "Adaptive Activation Cancellation for Hallucination Mitigation in Large Language Models." *SN Computer Science* (Springer Nature). *arXiv: 2603.10195* — Under Review

Yocam, E., Vaidyan, V., Wang, Y. "H-Node Attack and Defense in Large Language Models." *IEEE Transactions on Emerging Topics in Computational Intelligence. arXiv: 2603.26045* — Under Review

Yocam, E., Vaidyan, V., Mwakalonge, J.L., Comert, G., Ngotonie, M. "Cross-Domain Adversarial Robustness of Geometric Prior Neural Networks: Safety-Critical Deployment Guidelines." *IEEE Transactions on Emerging Topics in Computational Intelligence.* — Under Review

Yocam, E., Vaidyan, V., Comert, G., Wang, Y. "Hardening Black-Box Neural Networks Against Adversarial Attacks Through Surrogate-Based Defense Transfer." *IEEE Transactions on Dependable and Secure Computing.* — Under Review

Yocam, E., Vaidyan, V., Mwakalonge, J.L., Comert, G., Wang, Y. "Architectural Robustness in Lane Detection Systems: Geometric Constraints and Adversarial Stability." *Transportation Research Interdisciplinary Perspectives* (Elsevier). — Under Review

Yocam, E., Vaidyan, V., Comert, G., Wang, Y., Mwakalonge, J.L. "Protection of UAV-Based Crop Row Detection Against Adversarial Attacks." *IEEE Transactions on Emerging Topics in Computational Intelligence.* — Under Review

Yocam, E., Vaidyan, V., Ruganuza, D., Mwakalonge, J.L., Comert, G., Pian, D. "Retroreflectivity-Based Traffic Sign Cybersecurity: Synthetic Data and Defense Models." *Engineering Applications of Artificial Intelligence* (Elsevier). — Under Review

Prasad, A.R., Ketema, N., Kothakonda, B.V., **Yocam, E.**, Vaidyan, V., Comert, G., Podhradsky, A., Werth, D., Buckley, R. "Hybrid Quantum-Classical Path Optimization for Multi-Drone Gas Leak Detection." *IEEE Transactions on Emerging Topics in Computational Intelligence.* — Under Review

Manuscripts in Development

Yocam, E., Mei, D., Wang, S., Vaidyan, V., Kamepalli, M. "Scaling Predictive Models for Germanium Crystal Growth through MLOps (Ge-STAR)." — In development

Yocam, E., Wang, S., Rizi, A., Vaidyan, V. "Semantic Multi-Tier Quantum-Resistant Encryption for Agricultural IoT with Hardware Validation." — In development

Yocam, E., Vaidyan, V., Basnet, D., Bista, A. "Quantum Control Plane Side Channel Attack." — In development

Yocam, E., Vaidyan, V., Basnet, D., Bista, A. "Quantum Timing Attacks — Raspberry Pi Hardware Implementation." — In development

Prasad, A.R., **Yocam, E.**, Vaidyan, V., Comert, G., Werth, D., Buckley, R., Gale, A., Danielson, T. "Event-Driven Methane Leak Prediction with Quantum Spiking Neural Networks." — In development

Prasad, A.R., Ketema, N., Kothakonda, B.V., **Yocam, E.**, Vaidyan, V., Comert, G., Podhradsky, A., Werth, D., Buckley, R. "Functional Benchmarking and Performance Assessment of Predictive Models for Methane Leak Detection Across Classical, Quantum-Inspired, and Quantum Frameworks." — In development

Dawaare, B.A., Vaidyan, V., **Yocam, E.**, Comert, G. "Probabilistic Space IoT Risk Management Methodology (P-SIRM2)." — In development

Kamepalli, M., **Yocam, E.**, Vaidyan, V. "Vulnerabilities Paper." *Expert Systems with Applications* (Elsevier). — In development

Preprints

Yocam, E., Pollin, R. "The Celebrity Board Premium Bubble." *SSRN: 6577219*. — 2026

Yocam, E., Pollin, R. "Celebrity Governance Without Institutions: Evidence from Cryptocurrency Markets." *SSRN: 6577958*. — 2026

Yocam, E., Pollin, R. "Celebrity Board Directors and Shareholder Wealth: A Composite Multi-Theory Assessment." *SSRN: 6566018*. — 2026

Non-refereed Journal Articles

	Yocam, E. Multiple articles in *United States Cybersecurity Magazine.*	2014–2015

Fellowships

X-Force Fellowship, National Security Innovation Network, US Department of Defense	Jun – Aug 2021
Affiliate Technical Fellowship, Center for Information Assurance and Cybersecurity, University of Washington	2017 – 2021
Graduate Fellowship, College of Engineering and Computer Science, Syracuse University	2015 – 2020
Graduate Fellowship, Knauss School of Business, University of San Diego	1996 – 1997

Invited Panels and Workshops

"Department of Labor, T-Mobile and University of Washington Pioneer Virtual-Cyber-Apprenticeships" 2018 NICE Conference	2018
CISSP Exam Development Workshop for Distinguished Subject Matter Experts ISC2	Feb 2018
"Cooperative Education Model: Accelerating Cybersecurity Professionals" 2017 NICE Conference	2017
Guest speaker on "Investor's Perspective of Corporate Governance" Seattle University	2010

Teaching Experience

Doctoral Level Courses	
IA8125 Information Security Policy Planning and Analysis University of Fairfax (Blackboard LMS)	2010 – 2015
CEX8240 Strategic and Technological Trends in Info. Security I University of Fairfax (Blackboard LMS)	2010 – 2015
CEX9200 Research Topics in Information Security II University of Fairfax (Blackboard LMS)	2010 – 2015
Graduate Level Courses	
MSC5703 Information Security Risk Management Dominican University of California (Moodle LMS)	2024 – Present
IPM509 Communications and Cyber Infrastructure Systems University of Washington (Canvas LMS)	2018 – 2021
ISSC631 Cyber Ethics: Privacy and Intellectual Property American Public University System (Sakai LMS)	2013 – 2018
ISSC660 Information Assurance American Public University System (Sakai LMS)	2013 – 2018

ITMG624 Information Technology Project Management American Public University System (Sakai LMS)	2013 – 2018
ISSC699 Cybersecurity Studies Capstone American Public University System (Sakai LMS)	2013 – 2018
IA7020 Information Security Systems and Organizational Awareness University of Fairfax (Blackboard LMS)	2010 – 2015
IA7030 Legal and Ethical Practices in Information Security University of Fairfax (Blackboard LMS)	2010 – 2015
IA8030 Design, Development and Evaluation of Security Controls University of Fairfax (Blackboard LMS)	2010 – 2015
IA8080 Security Solution Implementation University of Fairfax (Blackboard LMS)	2010 – 2015
IA8110 Certification and Accreditation University of Fairfax (Blackboard LMS)	2010 – 2015
ISEC520 Ethical Obligations in Information Security City University of Seattle (Blackboard LMS)	2010 – 2011
ECCU502 Investigating Network Intrusion and Computer Forensics EC-Council University (Blackboard & Moodle LMS)	2007 – 2010
ECCU506 Conducting Penetration and Security Tests EC-Council University (Blackboard & Moodle LMS)	2007 – 2010
ECCU509 Securing Wireless Networks EC-Council University (Blackboard & Moodle LMS)	2007 – 2010
ECCU513 Disaster Recovery EC-Council University (Blackboard & Moodle LMS)	2007 – 2010
ECCU515 Project Management in IT Security EC-Council University (Blackboard & Moodle LMS)	2007 – 2010
ECCU524 Principles of E-Business Security EC-Council University (Blackboard & Moodle LMS)	2007 – 2010
Undergraduate Level Courses	
CSC321 Introduction to Computer Security California Polytechnic State University (Canvas LMS)	2024 – Present
ISSC331 Legal Issues in Information Security American Public University System (Sakai LMS)	2013 – 2018
ISSC340 Local Area Network Technologies American Public University System (Sakai LMS)	2013 – 2018
ISSC341 Introduction to Networking American Public University System (Sakai LMS)	2013 – 2018
ISSC422 Information Security American Public University System (Sakai LMS)	2013 – 2018
ISSC471 IT Security: Auditing American Public University System (Sakai LMS)	2013 – 2018

	ISSC481 IT Security: Planning and Policy American Public University System (Sakai LMS)	2013 – 2018
	ISSC498 Information Security Capstone American Public University System (Sakai LMS)	2013 – 2018
	ISSC499 Senior Seminar in Cybersecurity Capstone American Public University System (Sakai LMS)	2013 – 2018
	ITMG481 Ethics in Information Technology American Public University System (Sakai LMS)	2013 – 2018
Prof. Industry Experience	**Security and Technical Program Consultant, Self-employed** Provided expert guidance and innovative solutions across diverse industries Optimized technology infrastructure and streamlined operational processes Developed targeted strategies to address unique challenges and drive growth	2023 – 2024
	T-Mobile, Sr. Manager, Security and Technical Program Staff Implemented Enterprise tools, increasing operational efficiency by 30% Led digital security initiatives, achieving 20% risk reduction within 18 months Managed Security programs across InfoSec and Enterprise domains	2010 – 2023
	Microsoft, Manager, Technical Program Management Staff Led technical teams in deploying technology platforms with 98% on-time completion rate Oversaw implementation of enterprise applications, including CRM and security tools Honed skills in data analysis, systems integration, and user operations management	1999 – 2010
Inventions/Patents	23 issued patents, all assigned to T-Mobile U.S.A. Including: DeepFake Detection, Augmented Reality Collision, Temporal Identity Vaulting, Privacy Breach Detection, Mobile Device In-Motion Proximity Guidance System, Dynamic Wireless Communications Network with Aerial Drones, Behavioral Biometrics, and more.	

Service to Profession

Certification Exam Question Author
CDPSE (ISACA), CISSP (ISC2), CRISC (ISACA), CEH (EC-Council), CSDP (IEEE-CS)

Peer-Review Manuscript Reviewer
ACM, IEEE, The Society of Digital Information and Wireless Communications, Academy of Management, Springer

Community Involvement

Mentor
Cybersecurity Workforce Alliance, EPIC Challenge, IQ4
Michael G. Foster School of Business,
University of Washington

InfraGard Member 2014 – Present
FBI-sponsored public-private partnership for critical infrastructure protection

Corporate Delegate
NICE Apprenticeship Subgroup Member, NICE

Advisory Council Member
Cybersecurity Advisory Board Member Rutgers University

Honorary Council Member
EC-Council

Non-profit Member
Vice-Chair, Board Member Northwest, Dollars for Scholars