

DAN LI

Curriculum Vitae

Industrial & Systems Engineering
218 Sieg Hall
Seattle, WA 98195

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EDUCATIONAL HISTORY

Georgia Institute of Technology, Atlanta, GA
Ph.D., Industrial Engineering (Minor: Machine Learning)
2021

Dissertation: Online Detection Against Cyberattacks In Cyber-Physical Systems

Georgia Institute of Technology, Atlanta, GA
M.S., Statistics
2020

Tsinghua University, Beijing, China
B.S., Mechanical (Automotive) Engineering
2015

EMPLOYMENT HISTORY

University of Washington
Seattle, WA, USA
Assistant Professor, Department of Industrial & Systems Engineering, Jun 2025–Present

University of Wisconsin–Madison
Madison, WI, USA
Assistant Professor, Department of Industrial & Systems Engineering, Aug 2024–Jun 2025

Clemson University
Clemson, SC, USA
Assistant Professor, Department of Industrial Engineering, Aug 2021–Aug 2024

AWARDS AND HONORS

1. INFORMS QSR Best Student Paper Finalist (As advisor), October 2025, INFORMS
2. IISE DAIS Best Student Paper Finalist (As advisor), May 2025, IISE
3. Dean's Professorship, College of Engineering and Applied Sciences, Clemson University, 2024.
4. NSF CAREER Award, National Science Foundation, 2024
5. Best Application Paper Award, IISE Transactions, Data Science, Quality, and Reliability Focus, 2023.
6. Best Track Paper Award, Data Analytics and Information Systems (DAIS), IISE Annual Conference, 2021.

7. Best Student Paper Finalist, Quality Control and Reliability Engineering, IISE Annual Conference, 2021.
8. Tandon Faculty First Look Fellowship, NYU Tandon School of Engineering, 2021.
9. Best Student Paper Finalist, DAIS, IISE Annual Conference, 2020.
10. Student Travel Grant, NSF I-Corps Program, VentureLab, 2020.
11. Best Student Paper Award, Energy Systems, IISE Annual Conference, 2019.
12. Best Student Paper Runner-up, DAIS, IISE Annual Conference, 2019.
13. Best Student Poster (Second Prize), Student Poster Competition, Georgia Tech Cybersecurity Summit, 2019.
14. Outstanding Thesis Award, Tsinghua University, 2015.
15. Undergraduate Fellowship, Tsinghua University, 2011–2015.

PUBLICATIONS

Refereed archival journal publications

¹ graduate student advisee

1. Navid Aftabi¹, Philip Samaha, Jin Ma, Long Cheng, Ramy Harik, and **Dan Li**. (2026) "ViSTR-GP: Online Cyberattack Detection via Vision-to-State Tensor Regression and Gaussian Processes in Automated Robotic Operations." *Journal of Manufacturing Systems*, vol. 89, pp. 504-523, doi:10.1016/j.jmsy.2026.09.008
2. Wu, J.¹ and **Li, D.** (2026) "Tensor-Efficient High-Dimensional Q-learning." *Technometrics*, August, 1–12. doi:10.1080/00401706.2026.2702440. Google Scholar citations: 1.
3. Aftabi¹, N., Hanchate, A., Bukkapatnam, S. T. S., and **Li, D.** (2026). "DynaMark: A Reinforcement Learning Framework for Dynamic Watermarking in Industrial Machine Tool Controllers," in *IEEE Transactions on Automation Science and Engineering*, vol. 23, pp. 13658-13676, 2026, doi: 10.1109/TASE.2026.3715642. Google Scholar citations: 1.
4. Chen, W., Xu, C., Liang, L., Zhuang, X., Guo, Z., **Li, D.**, Zhou, C., and Sun, H. (2026). "Dynamics-Guided Reinforcement Learning for Adaptive Multi-Objective Drying Control of Wet-Formed Biomass Materials." *ASME. J. Manuf. Sci. Eng.*. Accepted. Google Scholar citations: 0.
5. Xu, C., Liang, L., Chen, W., Zhuang, X., Guo, Z., **Li, D.**, Zhou, C., and Sun, H. (2026). "Ambient Drying Modeling and Analysis in Carbon-Negative Biomass Manufacturing." *ASME. J. Manuf. Sci. Eng.* April 2026; 148(4): 041005. <https://doi.org/10.1115/1.4071011> Google Scholar citations: 0.
6. Fuller, P., Duffie, H., **Li, D.**, Carbonell, A., Perkins, N., Cha, J. S. Cybersecurity Risks and Vulnerabilities in Robotic-Assisted Surgery. *Hum Factors*. (2026) ;68(4):447-469. doi: 10.1177/00187208251401735. Epub 2025 Dec 2. PMID: 41329961. Google Scholar citations: 0.
7. West, J.¹, Singh, C., Cha, J., & **Li, D.** (2025). s-DResNet: An Adversarial Domain Residual Adaptation Network for Mental Workload Detection in Robotic Assisted Surgeries, *IISE*

Transactions on Healthcare Systems Engineering, DOI: 10.1080/24725579.2025.2492555.
Pages: 1-11. Google Scholar citations: 0.

8. Aftabi, N.¹, **Li, D.**, & Sharkey, T. C. (2025). An integrated cyber-physical framework for worst-case attacks in industrial control systems. *IIEE Transactions*.
<https://doi.org/10.1080/24725854.2024.2439856> Google Scholar citations: 22.
9. Xie, X., Xian, X., **Li, D.**, & Wang, A. (2025). Adversarial client detection via non-parametric subspace monitoring in the internet of federated things. *IIEE Transactions*.
<https://doi.org/10.1080/24725854.2024.2367224> Google Scholar citations: 1.
10. Kokhahi, A.¹, **and Li, D.** (2024) "GLHAD: A Group Lasso-Based Hybrid Attack Detection and Localization Framework for Multistage Manufacturing Systems." *ASME. J. Comput. Inf. Sci. Eng.* July 2024; 24(7): 071006. <https://doi.org/10.1115/1.4063862> Google Scholar citations: 13.
11. **Li, D.**, Gebraeel, N., Paynabar, K., & Meliopoulos, A. S. (2023). An online approach to covert attack detection and identification in power systems. *IEEE Transactions on Power Systems*, 38(1), 267-277. doi: 10.1109/TPWRS.2022.3167024 Google Scholar citations: 40.
12. Gómez, A. M. E., **Li, D.**, & Paynabar, K. (2022). An adaptive sampling strategy for online monitoring and diagnosis of high-dimensional streaming data. *Technometrics*, 64(2), 253-269. <https://doi.org/10.1080/00401706.2021.1967198> Google Scholar citations: 40.
13. Ramanan, P., **Li, D.**, & Gebraeel, N. (2022). Blockchain-based decentralized replay attack detection for large-scale power systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 52(8), 4727-4739. doi: 10.1109/TSMC.2021.3104087. Google Scholar citations: 92.
14. Ashok, K., **Li, D.**, Gebraeel, N., & Divan, D. (2021). Online detection of inter-turn winding faults in single-phase distribution transformers using smart meter data. *IEEE Transactions on Smart Grid*, 12(6), 5073-5083. doi: 10.1109/TSG.2021.3102101. Google Scholar citations: 29.
15. **Li, D.**, Paynabar, K., & Gebraeel, N. (2020). A degradation-based detection framework against covert cyberattacks on SCADA systems. *IIEE Transactions*, 53(7), 812-829.
<https://doi.org/10.1080/24725854.2020.1802537> Google Scholar citations: 24.
16. **Li, D.**, Gebraeel, N., & Paynabar, K. (2020). Detection and differentiation of replay attack and equipment faults in SCADA systems. *IEEE Transactions on Automation Science and Engineering*, 18(4), 1626-1639. doi: 10.1109/TASE.2020.3013760. Google Scholar citations: 82.

Top AI/ML conference proceedings

1. Junyi Wu¹, and **Dan Li**, Factored Spectral Representations for Reinforcement Learning, *NeurIPS 2026*. Accepted

Other conference proceedings and other non-journal articles

2. Navid Aftabi¹, **Dan Li**, and Paritosh Ramanan. "PINPOINT: Probabilistic Residual Fusion for Cyberattack Detection and Localization in Power Systems." *2026 25th International Conference on Machine Learning and Applications*. Accepted. Google Scholar citations: 9.
3. Dan Li, Paritosh Ramanan, Nagi Gebraeel, and Kamran Paynabar. "Deep Learning Based Covert Attack Identification for Industrial Control Systems." *19th IEEE International Conference on Machine Learning and Applications (ICMLA)*, 2020. DOI: 10.1109/ICMLA51294.2020.00075. Pages: 438-445. Google Scholar citations: 30.
4. Kavya Ashok, Dan Li, Deepak Divan, and Nagi Gebraeel. "Distribution Transformer Health Monitoring Using Smart Meter Data." *2020 IEEE PES Innovative Smart Grid Technologies Conference (ISGT)*, 2020. DOI: 10.1109/ISGT45199.2020.9087641. Pages: 1-5. Google Scholar citations: 49.

Papers submitted

1. Pojtanut Manopanjasiri¹, and **Dan Li**, Budgeted Batch-Resampling Attacks on Online Learners, *Target: The Fifteenth International Conference on Learning Representations (ICLR 2027)* (Submission planned in September 2026).
- 2.
3. Matthew Ball, Junyi Wu¹, **Dan Li**, and Jackie Cha. "Transparency in Cybersecurity Alerts During Simulated Surgical Tasks: Physiological Detection and Classification of Cyberattacks." *IIEE Transactions on Healthcare Systems Engineering*. Under Review.
1. Xiaoyu Zhuang, Wuyang Chen, Chenyu Xu, Licheng Liang, **Dan Li**, Hongyue Sun, Chi Zhou, and Zipeng Guo. "A Regime-Aware Neural ODE Framework for Modeling Evolving Dynamics in Manufacturing Processes." *Advanced Manufacturing*. Under Review.

Non-refereed papers

(Papers in preparation)

4. Amirhossein Kiani, Navid Aftabi¹, Raphael Stern, and **Dan Li**, Quantifying the impacts of data integrity attacks on RL-based traffic signal control, *Target: IEEE Transactions on Intelligent Transportation Systems*, (Submission planned in October 2026).
5. Aditya Parameshwaran, Navid Aftabi¹, Abhishek Hanchate, Yue Wang, Satish T Bukkapatnam, and **Dan Li**, Towards Verifiable Resiliency: Latent-Space Shielding of Dynamic Watermarks for Image-Based Controllers, *Target: ACC Conference* (Submission planned in September 2026).

Journal issues edited

1. Ameta, G., Bukkapatnam, S., **Li, D.**, Tian, W., Yampolskiy, M., & Zhang, F. (Eds.). (2024). Cybersecurity in Manufacturing. *Journal of computing and information science in engineering*, 24(7), 070201.

OTHER SCHOLARLY ACTIVITY

Invited lectures and seminars.

1. 2026 INFORMS Conference on Quality, Statistics, and Reliability (ICQSR), IISE Transactions Featured Paper: *An integrated cyber-physical framework for worst-case attacks in industrial control systems*, July 2026
2. ENGR 101 Guest Lecture, *AI for Cyber-Physical Security in Robotics and Manufacturing*, Nov 2025
3. UW ISE Seminar Series, *Building Cyber-Physical Resilience in Modern Manufacturing: Safeguarding Operations and Production Systems*, Nov 2025.
4. UW Distinguished Speaker Series @ Boeing, *Building Cyber-Physical Resilience in Modern Manufacturing: Safeguarding Operations and Production Systems*, Sep 2025.
5. UW ISE Seminar Series, *Building Cyber-Physical Resilience in Modern Manufacturing: Safeguarding Operations and Production Systems*, Mar 2025.
6. University of Wisconsin-Madison IoT center workshop: Emerging topics on IoT data analytics and industrial AI, *Integrated Cyber-Physical Security and Resilience in IIoT Enabled Manufacturing*, Aug 2024.
7. The 12th Quality & Reliability Science and Technology Symposium, *Integrated Cyber-physical Security and Resilience of IIoT-Enabled Manufacturing Systems*, Jul 2024.
8. IEEE Workshop: Reliable and Resilient Digital Manufacturing 2024, *Integrated Cyber-physical Security and Resilience of IIoT-Enabled Manufacturing Systems*, Apr 2024.
9. University of Wisconsin-Madison, ISyE Seminar, *Integrated Cyber-Physical Security and Resilience of Critical Manufacturing*, Feb 2024.
10. Virginia Tech, ISE Seminar, *Integrated Cyber-Physical Security and Resilience of Critical Manufacturing*, Dec 2023.
11. Tsinghua University, *Integrated Cyber-Physical Security and Resilience of Critical Manufacturing*, Dec 2023.
12. Virginia Tech, *Cyberattack Detection and Localization for Industrial Cyber-Physical Systems and Critical Infrastructures*, Nov 2022.
13. Wayne State University, *Online Cyberattack Detection for Industrial Cyber-Physical Systems and Critical Infrastructures*, Oct 2022.
14. NSF EPSCoR USC-WVU Workshop, *Real-Time Cyberattack Identification in Multistage Manufacturing Systems*, Aug 2022.

15. University at Buffalo REU Seminar, *Online Cyberattack Detection for Industrial Cyber-Physical Systems and Critical Infrastructures*, Jul 2022.
16. Clemson School of Computing Seminar, *Online Cyberattack Detection for Industrial Cyber-Physical Systems and Critical Infrastructures*, Mar 2022.
17. HKUST Invited Seminar, *Online Cyberattack Detection for Industrial Cyber-Physical Systems and Critical Infrastructures*, Sep 2021.

Presentations given at conferences.

1. **Navid Aftabi**, Abhishek Hanchate, Satish Bukkapatnam, and Dan Li, “DynaMark: A Reinforcement Learning Framework for Dynamic Watermarking in Industrial Machine Tool Controllers”, *International Mechanical Engineering Congress & Exposition (IMECE)*, Memphis, TN, Nov. 2025
2. **Junyi Wu** and Dan Li, “Tensor-Efficient High-Dimensional Q-Learning”, *INFORMS Annual Meeting*, Atlanta, GA, Oct. 2025
3. **Navid Aftabi**, Philip Samaha, Jin Ma, Long Cheng, Ramy Harik, and Dan Li, “SUBVERT: A Stealth-Constrained Strategic Cyberattack in Unified Cyber-Physical Systems via Reinforcement Learning”, *INFORMS Annual Meeting*, Atlanta, GA, Oct. 2025
4. **Navid Aftabi**, Abhishek Hanchate, Satish Bukkapatnam, and Dan Li, DynaMark: A Reinforcement Learning Framework for Dynamic Watermarking in Industrial Machine Tool Controllers, *IISE Annual Conference*, Atlanta, GA, May 2025
5. **Navid Aftabi**, Abhishek Hanchate, Satish Bukkapatnam, and Dan Li, MTC-DWM-RL: A Reinforcement Learning Framework for Dynamic Watermarking in Industrial Machine Tool Controllers, *INFORMS Annual Meeting*, Seattle, WA, Oct 2024
6. **Navid Aftabi**, Paritosh Ramanan, and Dan Li, “A Variational Autoencoder Framework for Robust, Physics-Informed Cyberattack Recognition in Industrial Cyber-Physical Systems”, *IISE Annual Conference*, Montreal, Canada, May 2024
7. **Kiani, A.**, Aftabi, N., Stern, R., Li, D., Quantifying the impacts of data integrity attacks on RL-based traffic signal control. *TRB Annual Meeting*, Washington, DC, Jan 2025
8. **Aftabi, N.**, Hanchate, A., Bukkapatnam, S. & Li, D. “A Case Study on Optimal Watermarking in Machine Tool Controllers”. *International Mechanical Engineering Congress & Exposition (IMECE)*, Portland, OR, Nov 2024
9. **Aftabi, N.**, Hanchate, A., Bukkapatnam, S. & Li, D. “A Reinforcement Learning Framework for Dynamic Watermarking in the Industrial Machine Tool Controllers”. *INFORMS Annual Meeting*, Seattle, WA, Oct 2024
10. **Duffie, H.**, Singh, C., Li, D., Carbonell, A., Cha., J. S. “Assessment of a Cognitive Workload-Adaptive Augmented Reality Training Aid for Laparoscopic Surgery”. *ASPIRE—Human Factors and Ergonomics Society International Annual Meeting*. Phoenix, AZ, Sep, 2024

11. Sun, H., Zhou, C., Chen, W., Xu, C., Liang, L., Li, D., & **Guo, Z.** (2024). Data-informed smart drying strategies for advanced manufacturing. *IISE Annual Conference and Expo*, Montreal, Canada, May 2024
12. **Aftabi, N.**, Sharkey, T., & Li, D. “An Integrated Cyber-Physical Risk Assessment Framework for Worst-Case Attacks in Industrial Control Systems”. *INFORMS Annual Meeting*, Phoenix, AZ, Oct 2023
13. Navid Aftabi, Thomas Sharkey, and **Dan Li**, “Cyber-Physical Risk Assessment for Worst-Case Attacks in Industrial Control Systems,” *INFORMS Conference on Quality, Statistics, and Reliability (ICQSR)*, Raleigh, NC, Jun 2023.
14. **Aftabi, N.**, Sharkey, T., & Li, D. “An Optimization Framework for Cyber-Physical Vulnerability Analysis in Industrial Cyber-Physical Systems”. *IISE Annual Conference and Expo*, New Orleans, LA, May 2023
15. Kokhahi, A., and **Li, D.**, “Cyberattack Detection in Multi-stage Manufacturing Systems,” *INFORMS Annual Meeting*, Indianapolis, IN, Oct 2022.
16. **Kokhahi, A.**, and Li, D., “Cyberattack Detection in Multi-Stage Manufacturing Systems”, *IISE Annual Conference and Expo*, Seattle, WA, May 2022
17. **Dan Li**, Nagi Gebraeel, Kamran Paynabar, and A.P. Sakis Meliopolous, “An Online Approach to Cyberattack Detection and Localization in Smart Grid,” *INFORMS Annual Meeting*, Anaheim, CA, Nov 2021.
18. **Dan Li**, Nagi Gebraeel, and Kamran Paynabar, “Detection and Differentiation of Replay Attacks and Equipment Faults in SCADA Systems,” *IEEE CASE*, Virtual, Aug 2021.
19. **Dan Li**, Nagi Gebraeel, Kamran Paynabar, and A.P. Sakis Meliopolous, “An SGL-Based Cyberattack Detection and Localization in Smart Grids,” *IISE Annual Conference*, Virtual, May 2021.
20. **Dan Li**, Paritosh Ramanan, and Nagi Gebraeel, “Deep Learning-Based Covert Attack Identification for Industrial Control Systems,” *IISE Annual Conference*, Virtual, May 2021.
21. **Dan Li**, Paritosh Ramanan, and Nagi Gebraeel, “Deep Learning Based Covert Attack Identification for Industrial Control Systems,” *IEEE ICMLA*, Virtual, Dec 2020.
22. **Dan Li**, Nagi Gebraeel, Kamran Paynabar, and A.P. Sakis Meliopolous, “An SGL-Based Cyberattack Detection and Localization in Smart Grids,” *INFORMS Data Mining Workshop*, Virtual, Nov 2020.
23. **Dan Li**, Nagi Gebraeel, Kamran Paynabar, and A.P. Sakis Meliopolous, “An Online Approach to Cyberattack Detection and Localization in Smart Grids,” *INFORMS Annual Meeting*, Virtual, Nov 2020.
24. **Dan Li**, Nagi Gebraeel, Kamran Paynabar, and A.P. Sakis Meliopolous, “Online Detection and Localization Against Cyberattacks on Smart Grid,” *IISE Annual Conference*, New Orleans, LA, May 2020.

25. **Dan Li**, Karman Paynabar, and Nagi Gebraeel, "A Degradation-Based Detection Framework Against Covert Attacks in SCADA Systems," *IISE Annual Conference*, New Orleans, LA, May 2020.
26. **Dan Li**, Karman Paynabar, and Nagi Gebraeel, "A Degradation-Based Detection Framework Against Covert Cyberattacks in SCADA Systems," *INFORMS Annual Meeting*, Seattle, WA, Oct 2019.
27. **Dan Li**, Nagi Gebraeel, and Kamran Paynabar, "Detection and Differentiation of Replay-Attack and Equipment Faults in SCADA Systems," *INFORMS Annual Meeting*, Seattle, WA, Oct 2019.
28. **Dan Li**, Nagi Gebraeel, and Kamran Paynabar, "Detection and Distinction of Replay-Attack and Equipment Faults in SCADA Systems," *IISE Annual Conference*, Orlando, FL, May 2019.
29. **Dan Li**, Nagi Gebraeel, and Kamran Paynabar, "Detection and Differentiation of Replay-Attack and Equipment Faults in SCADA Systems," *IISE Annual Conference and Expo*, Orlando, FL, May 2018.

Professional society memberships.

Institute of Industrial and Systems Engineers (IISE), 2026-present

Institute for Operations Research and the Management Sciences (INFORMS), 2018-present

American Society of Mechanical Engineers (ASME), 2025-present

Other

Journal referee: Operations Research (2); IISE Transactions (12); Technometrics (3); Journal of Quality Technology (5); IEEE TASE (6); IEEE TII (2); IEEE Transactions on Power Systems (3); IEEE Transactions on Reliability (3); IEEE TNSE (2); IEEE TSC (2); IEEE Access (1); ASME JMSE (4); Computers & Industrial Engineering (1); INFORMS Journal on Data Science (3); Quality and Reliability Engineering International (1).

Conference/competition referee:

ICQSR Best Paper Competition 2026;
IISE QCRE Best Student Paper Competition 2025;
IISE DAIS Best Paper Competition 2025;
IISE Annual Conference 2025;
INFORMS 2023 QSR Best Paper Competition;
QCRE Golomski Award 2023;
IISE ENRE Best Paper Competition 2023;
IISE Annual Conference 2023;
IEEE CASE 2023;
INFORMS 2022 DMDA Workshop;
INFORMS 2022 QSR Student Paper Competition;
QCRE Golomski Award 2022;
IISE 2022 Doctoral Colloquium Dissertation Pitch Competition;
IISE 2022 DAIS Best Paper Competition;

IISE Annual Conference 2022;
IEEE CASE 2022.

GRADUATE STUDENTS

Current Doctoral Students

- Pojtanut Manopanjaisiri, Chair, Status: Pre-qualifying Exam
- Junyi Wu, Chair, Status: Qualifying Exam Scheduled (Dissertation title: *Sample-Efficient Reinforcement Learning*)
- Navid Aftabi, Chair, Status: Passed Qualifying Exam, 2023; General Exam Scheduled (Dissertation title: *Integrated Vulnerability Analysis in Cyber-Physical Systems*)

Chaired Masters Degrees

- Junyi Wu, Chair, Project, *Sample Efficiency in High-dimensional Reinforcement Learning*, University of Wisconsin–Madison, Summer 2025, PhD student at UW
- Jason West, Chair, Project, *Transfer Learning for Physiological Data Anomaly Detection*, Clemson University, Spring 2024, Los-Alamos National Lab

Current Masters Students

- Co-advising: Ashley Woodworth (Chair: Gian Garcia), Project, *Modeling Learning Effects*

Other significant student supervision

- Graduate Committee: Sebastian Halicki (Chair: Ji-Eun Kim), Junghoon Chung (Chair: Ji-Eun Kim), Michelle Song (Chair: Christina Mastrangelo), Congjing Zhang (Chair: Shuai Huang)
- Undergraduate research supervision: Chloe Crozier; Sumanth Pandiri; Matthew Werner; Janhavi Deshpande (2023-2024, Clemson).
- Additional undergraduate student career advising: 14 students. (2022-2024, Clemson)

RESEARCH ACTIVITIES

Funded Research

Funding Agency	Title	Your role with other PI's and co-PI's	Total Amount, Your Amount, (Subcontracts if any, University Matching if any)	Dates (start - finish)
NSF	M3X: Collaborative Research: Human-Inspired Cyber-Physical Security in Human-Robot Interactions	PI at UW (Dan Li) Lead Institute: ISU (PI Jundi Liu, Co-PI Bowen Weng)	Total amount: \$500,000; my amount: \$187,587	2027-2029
NSF	CAREER: Understanding the Cyber-Physical Resilience of Continuous Critical Manufacturing	PI (Dan Li)	Total amount \$555,504; my amount \$555,504	2024–2029

NSF	UCSS: Human-Centered Cybersecurity in Robotic Surgery (HCCRS) - Coordinating the Human and Cyber Infrastructure for Cybersecurity	Co-PI (PI: Jackie Cha)	Total amount \$599,982; my share: 50%	2023–2026
NSF EPSCoR Subaward LLP-FM	Early Career Seed Grants on Future Factories	PI (Dan Li)	Total amount \$25,000; my amount \$25,000	2022–2023
Prisma Health	Usability-driven Anomaly Identification for Physiological Sensors in Training	Co-PI (PI: Jackie Cha)	Total amount \$20,000; my share: 50%	2023–2024

Pending Proposals

Funding Agency	Title	Your role with other PI's and co-PI's	Total Amount, Your Amount, (Subcontracts if any, University Matching if any)	Dates (start - finish)
NSF	CPS-FR: Foundations of Secure Inference Against Integrity Attacks in Dynamic Cyber-Physical Systems Using Non-Intrusive Monitoring	Lead PI (Clemson PI: Ramy Harik, Co-PI: Long Cheng; PI at GT: Saman Zonouz)	Total amount: \$998,824; my amount: \$349,982	10/01/2026-12/31/2029
DLA	AI-Driven Detection and Mitigation of Drug Panic Buying	Lead PI (Clemson PI: Emily Tucker)	Total amount: \$151,251; my amount: \$75,686	1/1/2027-12/31/2027

DOCUMENTATION OF TEACHING EFFECTIVENESS

Courses Taught & Student Evaluations

Course	Title	Quarter	Credit Hrs	Enrollment	Evaluations ? Response	Item 1	Item 3	Item 4	Overall Adj. Median
IND E 508 (E E 508)	Stochastic Processes	Spring 2026	3	15	Yes, 11/15	3.8	4.3	4.3	4.2
IND E 528	Predictive Analytics for Systems Engineers	Winter 2026	3	22	Yes, 17/22	4.0	4.6	4.4	4.3

IE 8930	High Dimensional Data Analysis	Spring 2024	3	5–10					4.63
IE 8090	Model Systems Under Risks	Fall 2023	3	50–60					4.24
IE 4610	Quality Engineering	Fall 2023	3	60–90					3.99
IE 4040	Creative Inquiry: AI for Cyber-Physical Security	Fall 2022–Spring 2023	3	4–6					4.48
IE 8090	Model Systems Under Risks	Fall 2022	3	50–60					4.32
IE 8930	High Dimensional Data Analysis	Spring 2022	3	5–10					4.67
IE 4610	Quality Engineering	Fall 2021 (Hybrid)	3	60–90					3.66

Peer Teaching Evaluations

Course	Quarter	Reviewer
IND E 508	Spring 2026	Patty Buchanan
IND E 528	Winter 2027	Chaoyue Zhao

Supervision of independent study (design projects and research).

Independent Study

Course	Title or Student Name	Quarter	# of Students (Total Credit Hrs)
IND E 600	Navid Aftabi	Autumn 2025	10
IND E 600	Navid Aftabi and Junyi Wu	Winter 2026	13
IND E 600	Navid Aftabi and Junyi Wu	Spring 2026	13

SERVICE

Departmental service

APM Student Chapter Chair, May 2026–Present;
APM Student Chapter Co-Chair, Sep 2025–Present;

Prior to UW

ISyE Faculty Affairs Cluster Member, Aug 2024–May 2025;
Department Seminar Coordinator, Aug 2023–Aug 2024;
Awards Committee, Aug 2022–Aug 2024;
Faculty Search Committee, Sep 2022–Jan 2023.

Professional society and other service

1. Council Member, INFORMS Quality, Statistics, and Reliability Section, Oct 2025–Present;
2. Associate Editor, ASME Journal of Computing and Information Science in Engineering, 2024–Present;
3. Board Member, IISE Quality Control and Reliability Engineering Division, 2022–2024;

4. Committee Chair – IISE QCRE Best Student Paper Competition 2024
5. Committee Chair – IISE QCRE Best Student Paper Competition 2023
6. Committee Chair – QCRE Student Poster Competition and Interaction 2023
7. Guest Editor, ASME Journal of Computing and Information Science in Engineering, Special Issue on Cybersecurity in Manufacturing, 2022–2024;
8. Session Chair, INFORMS and IISE annual conferences (2020–2025).
9. Panelist – IISE 2022 QCRE Student Interaction Session

International, national or governmental service

National Science Foundation Review Panelist, 2021–Present (ENG/CMMI 2022–2026; ENG/ECCS 2021).