

Yevgeniy Vorobeychik
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Research Interests

Trustworthy AI, game theoretic modeling of security, algorithmic and behavioral game theory, multi-agent systems, network science, optimization, complex systems.

Education

University of Michigan
Ph.D. Computer Science & Engineering
Intelligent Systems Program
Ann Arbor, Michigan
August 2008

Adviser: Professor Michael P. Wellman

Thesis: Mechanism Design and Analysis Using Simulation-Based Game Models

Nominated for the ACM Dissertation Award

Runner-up for the IFAAMAS-08 Victor Lesser Distinguished Dissertation Award

University of Michigan
M.S.E. Computer Science & Engineering
Intelligent Systems Program
Ann Arbor, Michigan
May 2004

Northwestern University
B.S. Computer Engineering (with Honors)
Economics minor
Graduated summa cum laude (GPA 3.95/4.00)
Evanston, Illinois
June 2002

Professional Experience

July, 2023-Present: Professor, Computer Science and Engineering, Washington University in Saint Louis, University City, MO.

July, 2023-Present: Professor, Electrical and Systems Engineering (by courtesy), Washington University in Saint Louis, University City, MO.

August, 2018-June, 2023: Associate Professor, Computer Science and Engineering, Washington University in Saint Louis, University City, MO.

August, 2013-August, 2018: Assistant Professor, Computer Science and Computer Engineering, Vanderbilt University, Nashville, TN.

August, 2016-August, 2018: Assistant Professor, Biomedical Informatics, Vanderbilt University Medical Center, Nashville, TN.

January, 2013-August, 2013: Principal Member of Technical Staff, Sandia National Laboratories, Livermore, CA.

June, 2010-January, 2013: Senior Member of Technical Staff, Sandia National Laboratories, Livermore, CA.

July, 2011-February, 2012: Visiting Scholar, University of Michigan, Computer Science and Engineering Division, Ann Arbor, MI.

August, 2008-May, 2010: Postdoctoral Researcher (advised by Professor Michael Kearns), Computer and Information Science Department, University of Pennsylvania, Philadelphia, PA.

Honors and Awards

- Outstanding paper award, ACL 2026
- SAC highlight award, ACL 2026
- Best paper award (finalist), ECML/PKDD 2026
- Best paper award, Learning with Strategic Agents Workshop (LSA @ AAMAS), 2022
- UAI 2022 Top Reviewer
- ACM Senior member, 2021
- Distinguished paper award, AMIA 2019
- One of best papers (KAIS special issue invitation), ICDM 2019
- AAAI Senior Member, 2019
- Best paper award, AI for Social Good Workshop (ICLR), 2019
- Outstanding paper in Health Informatics in 2017
- NSF CAREER Award, 2017
- Best paper award, AISEC 2017
- Visionary paper, Workshop on Cooperative Games in Multiagent Systems, 2017
- Early Career Spotlight Speaker, International Joint Conference on Artificial Intelligence (IJCAI) 2016
- Best paper award (finalist), International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2015
- Nominated for the Sandia Employee Recognition Award (for technical excellence), 2012
- Finalist, Von Neumann Fellowship in Computational Science, 2009
- Nominated for the ACM Dissertation Award by the University of Michigan Electrical Engineering and Computer Science department, 2008
- Runner-up for the IFAAMAS-08 Victor Lesser Distinguished Dissertation Award
- Honorable Mention, University of Michigan Computer Science & Engineering Honors Competition, 2006
- STIET (Socio-Technical Infrastructure for Electronic Transactions) Fellowship, University of Michigan, 2003-2004
- Best Computer Engineering Senior Award, Northwestern University, 2002
- William L. Everitt Student Award of Excellence, Northwestern University, 2002

Publications

My current and former students and post docs are marked with a *.

Books

1. Ayan Mukhopadhyay and Yevgeniy Vorobeychik (Eds). Artificial Intelligence and Society. River Publishers. In press.
2. Yevgeniy Vorobeychik and Murat Kantarcioglu. Adversarial Machine Learning. Morgan & Claypool (Synthesis Lectures on Artificial Intelligence and Machine Learning). 2018.

Book Chapters

1. Yevgeniy Vorobeychik. Computational Game Theory for Security. In *Autonomous Cyber Resilience*, Charles A. Kamhoua, Alexander Kott, Quanyan Zhu, Nandi O. Leslie (Eds.), Wiley, 2026.
2. Yevgeniy Vorobeychik and Michael Pritchard*. Plan interdiction games. In *Adaptive Autonomous Secure Cyber Systems*, Jajodia, S., Cybenko, G., Subrahmanian, V.S., Cohan, V., Wang, C., Wellman, M (Eds.), Springer, 159-182, 2020.
3. Zhiyu Wan, Yevgeniy Vorobeychik, Ellen Wright Clayton, Murat Kantarcioglu, and Bradley A. Malin. Game theory for privacy-preserving sharing of genomic data. In *Responsible Genomic Data Sharing: Challenges and Approaches*, X. Jiang, H. Tang (Eds.), Academic Press, 135–160, 2020.
4. Aron Laszka, Xenofon Koutsoukos, and Yevgeniy Vorobeychik. Towards High-Resolution Multi-Stage Security Games. In *Proactive and Dynamic Network Defense*, Cliff Wang and Zhuo Lu (Eds.), Springer (Advances in Information Security), Chapter 6, 139-161, 2019.

Conference Proceedings

1. Yevgeniy Vorobeychik, Sanmay Das, and Anne Nowe (eds.). 24th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2025). IFAAMAS (Hosted by the ACM), 2025.
2. Tansu Alpcan, Yevgeniy Vorobeychik, John S. Baras, and Gyorgy Dan (eds.). Decision and Game Theory for Security - 10th International Conference, GameSec 2019. Springer (Lecture Notes in Computer Science), 2019.

Refereed Journals

1. Jun Wang, Kaiyuan Tan, Yevgeniy Vorobeychik, and Yiannis Kantaros. Conformal Temporal Logic Planning using Large Language Models. In *ACM Transactions on Cyber-Physical Systems*, 2026, to appear.
2. Kash Barker, James H. Lambert, Elena Bessarabova, Sridhar Radhakrishnan, Andres D. Gonzalez Huertas, Matthew Weber, Jose Ramirez-Marquez, Yevgeniy Vorobeychik, and John N. Jiang. Risk Analysis of Disinformation Weaponization Against Critical Networks. In *Risk Analysis*, 45(12):4088-4096, 2025.
3. Victor Borza, Qingxia Chen, Ellen W. Clayton, Murat Kantarcioglu, Lina Sulieman, Yevgeniy Vorobeychik, and Bradley A. Malin. Computational Strategic Recruitment for Representation and Coverage Studied in the All of Us Research Program. In *npj Digital Medicine*, 8:Article 402, 2025.
4. Yulin Zhu, Xing Ai, Yevgeniy Vorobeychik, Kai Zhou. Robust Graph Contrastive Learning with Information Restoration. In *IEEE Transactions on Information Forensics and Security*, 20:9151-9163, 2025 (TIFS 2025).
5. Katherine Brown, Chao Yan, Zhuohang Li, Murat Kantarcioglu, Yevgeniy Vorobeychik, You Chen, Ellen Clayton, Xinmeng Zhang, Benjamin Collins, and Bradley Malin. Large Language Models are Less Effective at Clinical Prediction Tasks than Locally Trained Machine Learning Models. In *Journal of the American Medical Informatics Association*, 32(5):811-822, 2025.
6. P. Jeffrey Brantingham, George Mohler, and Yevgeniy Vorobeychik. Calling the Police as an Interdependent Security Game. In *Journal of Mathematical Sociology*, 49(2):109-129, 2025.

7. Feiran Jia, Aditya Mate, Zun Li, Shahin Jabbari, Mithun Chakraborty, Milind Tambe, Michael P. Wellman, and Yevgeniy Vorobeychik. A Game-Theoretic Approach for Hierarchical Epidemic Control. In *Autonomous Agents and Multiagent Systems*, 39(14):1-37, 2025 (JAAMAS 2025).
8. Shivam Bajaj, Pranoy Das, Yevgeniy Vorobeychik, and Vijay Gupta. Rationality of Learning Algorithms in Repeated Normal-Form Games. In *IEEE Control Systems Letters*, 8:2409-2414, 2024.
9. Xia Li, Andrea L. Bertozzi, P. Jeffrey Brantingham, and Yevgeniy Vorobeychik. Optimal policy for control of epidemics with constrained time intervals and region-based interactions. In *AIMS Networks and Heterogeneous Media*, 19(2):867-886, 2024.
10. Benjamin Miller, Zohair Shafi, Wheeler Ruml, Yevgeniy Vorobeychik, Tina Eliassi-Rad, and Scott Alfeld. Attacking shortest paths by cutting edges. In *ACM Transactions on Knowledge Discovery from Data*, 18(2): 35:1-35:42, 2024 (TKDD 2024).
11. Zeeshan Samad, Myrna Wooders, Bradley Malin, and Yevgeniy Vorobeychik. Risk, Trust, and Altruism in Genetic Data Sharing. In *Journal of Public Economic Theory*, 25:1251–1269, 2023 (JPET 2023).
12. Rajagopal Venkatesaramani*, Zhiyu Wan, Bradley Malin, and Yevgeniy Vorobeychik. Enabling trade-offs in privacy and utility in genomic data beacons. In *Genome Research*, 33(7): 1113–1123, 2023.
13. Rajagopal Venkatesaramani*, Zhiyu Wan, Bradley Malin, and Yevgeniy Vorobeychik. Defending Against Membership Inference Attacks on Beacon Services. In *ACM Transactions on Privacy and Security*, 26(3): 42:1-32, 2023 (TOPS 2023).
14. Marcin Waniek, Jan Woznica, Kai Zhou, Yevgeniy Vorobeychik, Tomasz P. Michalak, Talal Rahwan. Hiding from Centrality Measures: A Stackelberg Game Perspective. In *IEEE Transactions on Knowledge and Data Engineering*, 35(10): 10058-10071, 2023 (TKDE 2023).
15. Jia Guo, Ellen Wright Clayton, Murat Kantarcioglu, Yevgeniy Vorobeychik, Myrna Wooders, Zhiyu Wan, Zhijun Yin, and Bradley A. Malin. A Game Theoretic Approach to Balance Privacy Risks and Familial Benefits. In *Scientific Reports*, 13:6932, 2023.
16. Weiyi Xia, Melissa Basford, Robert Carroll, Ellen Wright Clayton, Paul Harris, Murat Kantarcioglu, Yongtai Liu, Steve Nyemba, Yevgeniy Vorobeychik, Zhiyu Wan, and Bradley Malin. Managing Re-identification Risks While Providing Access to the All of Us Research Program. In *Journal of the American Medical Informatics Association*, 30(5):907-914, 2023 (JAMIA 2023).
17. Gregory Leo, Yevgeniy Vorobeychik, and Myrna Wooders. Subgame Perfect Coalition Formation. In *Dynamic Games and Applications*, 13(2):510-524, 2023.
18. Yongtai Liu, Zhijun Yin, Zhiyu Wan, Chao Yan, Weiyi Xia, Congning Ni, Ellen Wright Clayton, Yevgeniy Vorobeychik, and Bradley Malin. Prioritizing Attention over Privacy: Reddit Users are Implicitly Incentivized to Reveal Their Face When Discussing Their Direct-to-Consumer Genetic Test Results. In *JMIR Infodemiology*, 2(2):e35702, 2022.
19. Bradley Malin, James Hazel, Zhiyu Wan, Ellen Clayton, Yevgeniy Vorobeychik, and Murat Kantarcioglu. Sociotechnical safeguards for genomic data privacy. In *Nature Reviews Genetics*, 23(7):429-445, 2022.
20. Ayan Mukhopadhyay, Geoffrey Pettet, Sayyed Mohsen Vazirizade, Di Lu, Alex Jaimes, Said El Said, Hiba Baroud, Yevgeniy Vorobeychik, Mykel Kochenderfer, Abhishek Dubey. A Review of Emergency Incident Prediction, Resource Allocation and Dispatch Models. In *Journal on Accident Analysis and Prevention*, 165:106501, 2022.
21. Zhiyu Wan, Yevgeniy Vorobeychik, Weiyi Xia, Yongtai Liu, Myrna Wooders, Jia Guo, Zhijun Yin, Ellen W. Clayton, Murat Kantarcioglu, and Bradley A. Malin. Using game theory to

- thwart multi-stage privacy intrusions when sharing data. In *Science Advances*, 7(50):eabe9986, 2021.
22. Rajagopal Venkatesaramani*, Bradley A. Malin, and Yevgeniy Vorobeychik. Re-identification of individuals in genomic datasets using public face images. In *Science Advances*, 7(47):eabg3296, 2021.
 23. Greg Leo, Jian Lou*, Martin van der Linden, Yevgeniy Vorobeychik, and Myrna Wooders. Matching soulmates. In *Journal of Public Economic Theory*, 23(5):822-857, 2021 (JPET 2021).
 24. Xintong Wang, Christopher Hoang, Yevgeniy Vorobeychik, and Michael P. Wellman. Spoofing the limit order book: a strategic agent-based analysis. In *Games*, 12(2):46, 2021.
 25. Chen Hajaj*, Zlatko Joveski, Sixie Yu*, and Yevgeniy Vorobeychik. Robust Coordination in Adversarial Social Networks: From Human Behavior to Agent-Based Modeling. In *Network Science*, 9(3):255-290, 2021.
 26. Weiyi Xia, Yongtai Liu, Zhiyu Wan, Yevgeniy Vorobeychik, Murat Kantacioglu, Steve Nyemba, Ellen Wright Clayton, and Bradley A. Malin. Enabling Realistic Health Data Re-identification Risk Assessment Through Adversarial Modeling. In *Journal of the American Medical Informatics Association*, 28(4):744-752, 2021 (JAMIA 2021).
 27. Adith Boloor*, Karthik Garimella, Xin He, Christopher Gill, Yevgeniy Vorobeychik, and Xuan Zhang. Attacking vision-based perception in end-to-end autonomous driving. In *Journal of Systems Architecture*, 110:101766, 2020.
 28. Aron Laszka, Waseem Abbas, Yevgeniy Vorobeychik, and Xenofon Koutsoukos. Integrating Redundancy, Diversity, and Hardening to Improve Security of Industrial Internet of Things. In *Cyber-Physical Systems*, 6(1):1-32, 2020.
 29. Yi Li*, Huahong Zhang*, Camilo Bermudez, Yifan Chen*, Bennett A. Landman, and Yevgeniy Vorobeychik. Anatomical context protects deep learning from adversarial perturbations in medical imaging. In *Neurocomputing*, 379:370-378, 2020.
 30. Marcin Waniek, Kai Zhou*, Yevgeniy Vorobeychik, Esteban Moro, Tomasz P. Michalak, and Talal Rahwan. How to Hide One’s Relationships from Link Prediction Algorithms. In *Nature Scientific Reports*, 9:Article 12208, 2019.
 31. Aron Laszka, Waseem Abbas, Yevgeniy Vorobeychik, and Xenofon Koutsoukos. Detection and Mitigation of Attacks on Transportation Networks as a Multi-Stage Security Game. In *Computers & Security*, 87:Article 101576, 2019.
 32. Amin Ghafouri, Aron Laszka, Waseem Abbas, Yevgeniy Vorobeychik, and Xenofon Koutsoukos. A game-theoretic approach for selecting optimal time-dependent thresholds for anomaly detection. In *Journal of Autonomous Agents and Multiagent Systems*, 33(4):430-456, 2019 (JAAMAS 2019).
 33. Chao Yan, Bo Li*, Yevgeniy Vorobeychik, Aron Laszka, Daniel Fabbri, and Bradley Malin. Database audit workload prioritization via game theory. In *ACM Transactions on Privacy and Security*, 22(3):Article 17, 2019 (TOPS 2019).
 34. Matthew C Lenert, Randolph A Miller, Yevgeniy Vorobeychik, and Colin G Walsh. A method for analyzing inpatient care variability through physicians’ orders. In *Journal of Biomedical Informatics*, 91:103111, 2019 (JBI).
 35. Bo Li* and Yevgeniy Vorobeychik. Evasion-robust classification on binary domains. In *ACM Transactions on Knowledge Discovery from Data*, 12(4):Article 50, 2018 (TKDD 2018).
 36. Aron Laszka, Yevgeniy Vorobeychik, and Xenofon Koutsoukos. A game-theoretic approach for integrity assurance in resource-bounded systems. In *International Journal of Information Security*, 17(2):221-242, 2018.
 37. Yue Yin, Bo An, Noam Hazon, and Yevgeniy Vorobeychik. Optimal Defense Against Election Control by Deleting Voter Groups. In *Artificial Intelligence*, 259:32-51, 2018 (AIJ).

38. Waseem Abbas, Aron Laszka, Yevgeniy Vorobeychik, and Xenofon Koutsoukos. Scheduling Resource-Bounded Monitoring Devices for Event Detection and Isolation in Networks. In *Transactions on Network Science and Engineering*, 5(1):65-78, 2018.
39. Alexander M Sevy, Swetasudha Panda*, James E Crowe Jr, Jens Meiler, and Yevgeniy Vorobeychik. Integrating linear optimization with structural modeling to increase HIV neutralization breadth. In *PLoS Computational Biology*, 14(2), e1005999, 2018.
40. Xenofon Koutsoukos, Gabor Karsai, Aron Laszka, Himanshu Neema, Bradley Potteiger, Peter Volgyesi, Yevgeniy Vorobeychik, and Janos Sztipanovits. SURE: A Modeling and Simulation Integration Platform for Evaluation of SecUre and REsilient Cyber-Physical Systems. In *Proceedings of the IEEE*, 106(1):93-112, 2018.
41. Weiyi Xia, Zhiyu Wan, Zhijun Yin, James Gaupp, Yongtai Liu, Ellen Wright Clayton, Murat Kantarcioglu, Yevgeniy Vorobeychik, and Bradley A. Malin. It's All in the Timing: Calibrating Temporal Penalties for Biomedical Data Sharing. In *Journal of the American Medical Informatics Association*, 2017.
42. Nika Haghtalab, Aron Laszka, Ariel D. Procaccia, Yevgeniy Vorobeychik, and Xenofon Koutsoukos. Monitoring stealthy diffusions. In *Knowledge and Information Systems*, 52(3):657-685, 2017. **Special issue on best papers from ICDM 2015.**
43. Zhiyu Wan, Yevgeniy Vorobeychik, Murat Kantarcioglu, and Bradley Malin. Controlling the Signal: Practical Protection of Genomic Data Sharing In Beacon Services. In *BMC Medical Genomics*, 10(39):87-100, 2017.
44. Bo Li*, Yevgeniy Vorobeychik, Muqun Li, and Bradley Malin. An iterative classification scheme for sanitizing large-scale datasets. In *IEEE Transactions on Knowledge and Data Engineering*, 29(3):698-711, 2017 (TKDE 2017).
45. Zhiyu Wan, Yevgeniy Vorobeychik, Weiyi Xia, Ellen Wright Clayton, Murat Kantarcioglu, and Bradley Malin. Expanding Access to large-scale genomic data while promoting privacy: a game theoretic approach. In *The American Journal of Human Genetics*, 100(2):316-322, 2017. **One of Best Papers in Health Informatics in 2017.**
46. Andrew Smith, Jian Lou*, and Yevgeniy Vorobeychik. Multidefender security games. In *IEEE Intelligent Systems*, 32(1):50-60, 2017.
47. Yevgeniy Vorobeychik, Zlatko Joveski, and Sixie Yu*. Does communication help people coordinate? In *PLoS One*, 12(2):e0170780, 2017.
48. Haifeng Zhang* and Yevgeniy Vorobeychik. Empirically grounded agent-based models of innovation diffusion: A critical review. In *Artificial Intelligence Review*, 2017.
49. C. Seshadhri, Andrew M. Smith, Yevgeniy Vorobeychik, Jackson Mayo, and Robert Armstrong. Characterizing short-term stability for Boolean networks over any distribution of transfer functions. In *Physical Review E*, 94:012301, 2016.
50. Muqun Li, David Carrell, John Aberdeen, Lynette Hirschman, Jacqueline Kirby, Bo Li*, Yevgeniy Vorobeychik, Bradley A Malin. Optimizing annotation resources for natural language de-identification via a game theoretic framework. In *Journal of Biomedical Informatics*, 61(C):97-109, 2016.
51. Haifeng Zhang*, Yevgeniy Vorobeychik, Joshua Letchford, and Kiran Lakkaraju. Data-driven agent-based modeling, with application to rooftop solar adoption. In *Journal of Autonomous Agents and Multiagent Systems*, 30(6):1023-1049, 2016 (JAAMAS 2016).
52. John Nay and Yevgeniy Vorobeychik. Predicting human cooperation. In *PLoS One*, 11(5):e0155656, 2016.
53. Zhiyu Wan, Yevgeniy Vorobeychik, Weiyi Xia, Ellen Clayton, Murat Kantarcioglu, Ranjit Ganta, Raymond Heatherly, and Bradley Malin. A game theoretic framework for analyzing re-identification risk. In *PLoS One*, 10(3):e0120592, 2015.

54. Yevgeniy Vorobeychik and Joshua Letchford. Securing interdependent assets. In *Journal of Autonomous Agents and Multiagent Systems*, 29(2):305-333, 2015 (JAAMAS 2015).
55. Yevgeniy Vorobeychik, Steven Kimbrough, and Howard Kunreuther. A framework for computational strategic analysis with an application to repeated interdependent security games. In *Computational Economics*, 45(3):469-500, 2015.
56. Yan Deng, Siqian Shen, and Yevgeniy Vorobeychik. Optimization methods for decision making in disease prevention and epidemic control. In *Mathematical Biosciences*, 246(1):213-227, 2013.
57. Jason Tsai, Yundi Qian, Yevgeniy Vorobeychik, Christopher Kiekintveld, and Milind Tambe. Bayesian security games for controlling contagion. In *ASE Human Journal*, 13:168-181, 2013.
58. Yevgeniy Vorobeychik, Daniel M. Reeves, and Michael P. Wellman. Constrained automated mechanism design for infinite games of incomplete information. In *Journal of Autonomous Agents and Multiagent Systems* 25(2):313-351, 2012 (JAAMAS 2012).
59. Yevgeniy Vorobeychik, Jackson R. Mayo, Robert C. Armstrong, and Joseph R. Ruthruff. Non-cooperatively Optimized Tolerance: Decentralized strategic optimization in complex systems. In *Physical Review Letters* 107(10):108702, 2011.
60. C. Seshadhri, Yevgeniy Vorobeychik, Jackson R. Mayo, Robert C. Armstrong, and Joseph R. Ruthruff. Influence and dynamic behavior in random boolean networks. In *Physical Review Letters* 107(10):108701, 2011.
61. Yevgeniy Vorobeychik and Yagil Engel. Average-case analysis of VCG with approximate resource allocation algorithms. In *Decision Support Systems* 51(3):648-656, 2011.
62. Stephen Judd, Michael Kearns, and Yevgeniy Vorobeychik. Behavioral dynamics and influence in networked coloring and consensus. In *Proceedings of the National Academy of Sciences* 107(34):14978-14982, 2010 (PNAS 2010).
63. Yevgeniy Vorobeychik. Probabilistic analysis of simulation-based games. In *ACM Transactions on Modeling and Computer Simulation* 20(3): Article 16, 2010 (TOMACS 2010).
64. John Langford, Lihong Li, Yevgeniy Vorobeychik, and Jennifer Wortman. Maintaining equilibria during exploration in sponsored search auctions. In *Algorithmica* 58(4):990-1021, 2010.
65. Yevgeniy Vorobeychik and Isaac Porche. Game-theoretic methods for analysis of tactical decision-making using agent-based combat simulations. In *Military Operations Research* 14(4):21-39, 2009.
66. Yevgeniy Vorobeychik and Daniel Reeves. Equilibrium analysis of dynamic bidding in sponsored search auctions. In *International Journal of Electronic Business* 6(2):172-193, 2008.
67. Yevgeniy Vorobeychik, Michael P. Wellman, and Satinder Singh. Learning payoff functions in infinite games. In *Machine Learning* 67:145-168, 2007.
68. Michael P. Wellman, Joshua J. Estelle, Satinder Singh, Yevgeniy Vorobeychik, Christopher Kiekintveld, and Vishal Soni. Strategic interactions in a supply chain game. In *Computational Intelligence* 21(1):1-26, 2005.
69. Michael P. Wellman, Daniel M. Reeves, Kevin M. Lochner, and Yevgeniy Vorobeychik. Price prediction in a trading agent competition. In *Journal of Artificial Intelligence Research* 21:19-36, 2004 (JAIR 2004).

Refereed Conferences

1. Tao Zhang* and Yevgeniy Vorobeychik. Sliced R'enyi Pufferfish Privacy: Tractable Privatization Mechanism and Private Learning with Gradient Clipping. In *USENIX Security Symposium*, 2026 (SEC 2026), to appear.
2. Tao Zhang* and Yevgeniy Vorobeychik. Residual-PAC Privacy: Automatic Privacy Control Beyond the Gaussian Barrier. In *USENIX Security Symposium*, 2026 (SEC 2026), to appear.

3. Shikha Shrestha*, Eunhye Ahn, Yevgeniy Vorobeychik. Limits of Interventions in AI-Assisted Decision Making. In *AAAI/ACM Conference on AI Ethics and Society*, 2026 (AIES 2026), to appear.
4. Shanghao Shi, Xiao Wang, Chaoyu Zhang, Hao Li, Wenjing Lou, Thomas Hou, Yevgeniy Vorobeychik, Chongjie Zhang, Ning Zhang. Think Twice Before You Act: Protecting LLM Agents Against Tool Description Poisoning via Isolated Planning. In *International Conference on Machine Learning*, 2026 (ICML 2026).
5. Luise Ge*, Yongyan Zhang*, Yevgeniy Vorobeychik. Mind the (DH) Gap! A Contrast in Risky Choices Between Reasoning and Conversational LLMs. In *Annual Meeting of the Association for Computational Linguistics*, 2026 (ACL 2026). **Outstanding paper award**
6. Owen Ma*, William Yeoh, Ning Zhang, Yevgeniy Vorobeychik. Protecting Language Models Against Unauthorized Distillation through Trace Rewriting. In *Annual Meeting of the Association for Computational Linguistics*, 2026 (ACL 2026).
7. Ben Rachmut, Luise Ge*, Ning Zhang, William Yeoh, and Yevgeniy Vorobeychik. COSMOS: Model-Agnostic Personalized Federated Learning with Clustered Server Models and Pseudo-Label-Only Communication. In *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases*, 2026 (ECML-PKDD 2026), to appear. **Best paper award (finalist)**
8. Anindya Sarkar*, Nasik Muhammad Nafi, Isaac Lyngaas, Muralikrishnan Gopalakrishnan Meena, and Yevgeniy Vorobeychik. PAPA: Online Personalized Active Preference Alignment. In *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases*, 2026 (ECML-PKDD 2026), to appear.
9. Taha Eghtesad, Yevgeniy Vorobeychik, and Aron Laszka. Adversarial Reinforcement Learning for Detecting False Data Injection Attacks in Vehicular Routing. In *ACM/IEEE International Conference on Cyber-Physical Systems*, 2026 (HSCC/ICCPS 2026), to appear.
10. Jun Wang, Yevgeniy Vorobeychik, Yiannis Kantaros. CoFineLLM: Conformal Finetuning of LLMs for Language-Instructed Robot Planning. In *Annual Learning for Dynamics and Control Conference*, 2026 (LADC 2026).
11. Yevgeniy Vorobeychik and Elaine Choy. Reproducibility and Impact of AI Research. In *ACM Conference on Reproducibility and Replicability*, 2026 (ACM REP 2026).
12. Xinhang Ma*, Junlin Wu*, Yiannis Kantaros, Yevgeniy Vorobeychik. Conformal Reachability for Safe Control in Unknown Environments. In *International Conference on Autonomous Agents and Multiagent Systems*, 2026 (AAMAS 2026).
13. Anindya Sarkar*, Srikumar Sastry, Aleksis Pirinen, Nathan Jacobs, Yevgeniy Vorobeychik. DiffVAS: Diffusion-Guided Visual Active Search in Partially Observable Environments. In *International Conference on Autonomous Agents and Multiagent Systems*, 2026 (AAMAS 2026).
14. Luise Ge*, Greg Kehne, Yevgeniy Vorobeychik. Optimized Distortion in Linear Social Choice. In *AAAI Conference on Artificial Intelligence*, 2026 (AAAI 2026). **Nominated for best paper award**
15. Owen Ma*, Junlin Wu*, Hussein Sibai, Yiannis Kantaros, Yevgeniy Vorobeychik. Learning Vision-Based Neural Network Controllers with Semi-Probabilistic Safety Guarantees. In *AAAI Conference on Artificial Intelligence*, 2026 (AAAI 2026).
16. Michael Lanier* and Yevgeniy Vorobeychik. A Scalable Approach to Solving Simulation-Based Network Security Games. In *Florida AI Research Society Conference*, 2026 (FLAIRS 2026).
17. Anindya Sarkar*, Binglin Ji, Yevgeniy Vorobeychik. Online Feedback Efficient Active Target Discovery in Partially Observable Environments. In *Neural Information Processing Systems*, 2025 (NeurIPS 2025).

18. Anindya Sarkar*, Binglin Ji, Yevgeniy Vorobeychik. Active Target Discovery under Uninformative Priors: The Power of Permanent and Transient Memory. In *Neural Information Processing Systems*, 2025 (NeurIPS 2025).
19. Han Liu, Ruoyao Wen, Srijith Nair, Jia Liu, Wenjing Lou, Chongjie Zhang, William Yeoh, Yevgeniy Vorobeychik, Ning Zhang. EcoLoRA: Communication-Efficient Federated Fine-Tuning of Large Language Models. In *Conference on Empirical Methods in Natural Language Processing*, 2025 (EMNLP 2025).
20. Luise Ge*, Michael Lanier*, Anindya Sarkar*, Bengisu Guresti*, Chongjie Zhang, Yevgeniy Vorobeychik. Learning Policy Committees for Effective Personalization in MDPs with Diverse Tasks. In *International Conference on Machine Learning*, 2025 (ICML 2025).
21. Tao Zhang*, Bradley A. Malin, Netanel Raviv, and Yevgeniy Vorobeychik. Differential confounding privacy and inverse composition. In *IEEE International Symposium on Information Theory*, 2025 (ISIT 2025).
22. Zihan Li, Han Liu, Ao Li, Ching-hsiang Chan, Yevgeniy Vorobeychik, William Yeoh, Wenjing Lou and Ning Zhang. Resilient Federated Learning on Embedded Devices with Constrained Network Connectivity. In *Design Automation Conference*, 2025 (DAC 2025).
23. Yatong Chen, Andrew Estornell*, Yevgeniy Vorobeychik, and Yang Liu. To Give or Not to Give? The Impacts of Strategically Withheld Recourse. In *International Conference on Artificial Intelligence and Statistics*, 2025 (AISTATS 2025).
24. Benjamin Miller, Zohair Shafi, Wheeler Ruml, Yevgeniy Vorobeychik, Tina Eliassi-Rad and Scott Alfeld. Defense Against Shortest Path Attacks. In *SIAM International Conference on Data Mining*, 2025 (SDM 2025).
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150. Waseem Abbas, Yevgeniy Vorobeychik, and Xenofon Koutsoukos. Resilient consensus protocol in the presence of trusted nodes. In *Seventh International Symposium on Resilient Control Systems*, 1-7, 2014 (ISRCS 2014). **Nominated for Best Paper award.**
151. Mark Yampolskiy, Yevgeniy Vorobeychik, Xenofon Koutsoukos, Peter Horvath, Heath Leblanc and Janos Sztipanovits. Resilient distributed consensus for tree topology. In *Third ACM International Conference on High Confidence Networked Systems*, 41-48, 2014 (HiCoNS 2014).
152. Yevgeniy Vorobeychik, Bo An, Milind Tambe, and Satinder Singh. Computing solutions in infinite-horizon discounted adversarial patrolling games. In *Twenty-Fourth International Conference on Automated Planning and Scheduling*, 314-322, 2014 (ICAPS 2014).
153. Yevgeniy Vorobeychik and Bo Li*. Optimal randomized classification in adversarial settings. In *Thirteenth International Conference on Autonomous Agents and Multiagent Systems*, 485-492, 2014 (AAMAS 2014).
154. Jason Tsai, Yundi Qian, Yevgeniy Vorobeychik, Christopher Kiekintveld, and Milind Tambe. Bayesian security games for controlling contagion. In *ASE/IEEE International Conference on Social Computing*, 2013 (SocialCom 2013).
155. Joshua Letchford and Yevgeniy Vorobeychik. Optimal interdiction of attack plans. In *Twelfth International Conference on Autonomous Agents and Multiagent Systems*, 199-206, 2013 (AAMAS 2013).
156. Bo An, Matthew Brown, Yevgeniy Vorobeychik, and Milind Tambe. Security games with surveillance cost and optimal timing of attack execution. In *Twelfth International Conference on Autonomous Agents and Multiagent Systems*, 223-230, 2013 (AAMAS 2013).
157. Joshua Letchford and Yevgeniy Vorobeychik. Computing optimal security strategies for interdependent assets. In *Twenty-Eighth Conference on Uncertainty in Artificial Intelligence*, 459-468, 2012 (UAI 2012).
158. Yevgeniy Vorobeychik and Satinder Singh. Computing Stackelberg equilibria in discounted stochastic games. In *Twenty-Sixth National Conference on Artificial Intelligence*, 2012 (AAAI 2012).
159. Bo An, David Kempe, Christopher Kiekintveld, Eric Shieh, Satinder Singh, Milind Tambe, and Yevgeniy Vorobeychik. Security games with limited surveillance. In *Twenty-Sixth National Conference on Artificial Intelligence*, 2012 (AAAI 2012).
160. Michael Kearns, Stephen Judd, and Yevgeniy Vorobeychik. Behavioral experiments on a network formation game. In *Thirteenth ACM Conference on Electronic Commerce*, 690-704, 2012 (EC 2012).
161. Stephen Judd, Michael Kearns, and Yevgeniy Vorobeychik. Behavioral conflict and fairness in social networks. In *Seventh International Conference on Web, Internet and Network Economics*, 242-253, 2011 (WINE 2011).
162. Yevgeniy Vorobeychik, Jackson R. Mayo, Robert C. Armstrong, Ronald G. Minnich, and Don W. Rudish. Fault oblivious high performance computing with dynamic task replication and substitution. In *Twenty-Sixth International Supercomputing Conference*, 2011 (ISC 2011).

163. Yevgeniy Vorobeychik. A game theoretic bidding agent for the ad auction game. In *Third International Conference on Agents and Artificial Intelligence*, 2011 (ICAART 2011).
164. Yevgeniy Vorobeychik and Yagil Engel. Average-case analysis of incentives under approximate allocation algorithms. In *Sixth International Conference on Web, Internet and Network Economics*, 251-258, 2010 (WINE 2010).
165. Quang Duong, Michael P. Wellman, Satinder Singh, and Yevgeniy Vorobeychik. History-dependent graphical multiagent models. In *Ninth International Conference on Autonomous Agents and Multiagent Systems*, 1215-1222, 2010 (AAMAS 2010).
166. Jacomo Corbo and Yevgeniy Vorobeychik. Nudging mechanisms for technology adoption. In *Fifth International Conference on Web, Internet and Network Economics*, 505-512, 2009 (WINE 2009).
167. Jacomo Corbo and Yevgeniy Vorobeychik. The effects of quality and price on adoption dynamics of competing technologies. In *Thirtieth International Conference on Information Systems*, Article 40, 2009 (ICIS 2009).
168. Yevgeniy Vorobeychik and Michael P. Wellman. Strategic analysis with simulation-based games. In *Winter Simulation Conference*, 359-372, 2009 (WSC 2009).
169. Quang Duong, Yevgeniy Vorobeychik, Satinder Singh, and Michael P. Wellman. Learning graphical game models. In *Twenty-First International Joint Conference on Artificial Intelligence*, 116-121, 2009 (IJCAI 2009).
170. Yevgeniy Vorobeychik. Simulation-based game theoretic analysis of keyword auctions with low-dimensional bidding strategies. In *Twenty-Fifth Conference on Uncertainty in Artificial Intelligence*, 583-590, 2009 (UAI 2009).
171. Yevgeniy Vorobeychik and Michael P. Wellman. Stochastic search methods for Nash equilibrium approximation in simulation-based games. In *Seventh International Conference on Autonomous Agents and Multiagent Systems*, 1055-1062, 2008 (AAMAS 2008).
172. Patrick Jordan, Yevgeniy Vorobeychik, and Michael P. Wellman. Searching for approximate equilibria in empirical games. In *Seventh International Conference on Autonomous Agents and Multiagent Systems*, 1063-1070, 2008 (AAMAS 2008).
173. Yevgeniy Vorobeychik, Daniel M. Reeves, and Michael P. Wellman. Constrained automated mechanism design for infinite games of incomplete information. In *Twenty-Third Conference on Uncertainty in Artificial Intelligence*, 400-407, 2007 (UAI 2007).
174. Yevgeniy Vorobeychik and Daniel M. Reeves. Equilibrium analysis of dynamic bidding in sponsored search auctions. In *Third International Conference on Web, Internet and Network Economics*, 2007 (WINE 2007).
175. Jennifer Wortman, Yevgeniy Vorobeychik, Lihong Li, and John Langford. Maintaining equilibria during exploration in sponsored search auctions. In *Third International Conference on Web, Internet and Network Economics*, 2007 (WINE 2007).
176. Yevgeniy Vorobeychik, Christopher Kiekintveld, and Michael P. Wellman. Empirical mechanism design: methods, with an application to a supply chain scenario. In *Seventh ACM Conference on Electronic Commerce*, 306-315. 2006 (EC 2006).
177. Yevgeniy Vorobeychik, Michael P. Wellman, and Satinder Singh. Learning payoff functions in infinite games. In *Nineteenth International Joint Conference on Artificial Intelligence*, 977-982. 2005 (IJCAI 2005).
178. Joshua J. Estelle, Yevgeniy Vorobeychik, Michael P. Wellman, Satinder Singh, Christopher Kiekintveld, and Vishal Soni. Strategic interactions in the TAC 2003 supply chain tournament. In *Fourth International Conference on Computers and Games*, 2004 (CG 2004).

179. Christopher Kiekintveld, Michael P. Wellman, Satinder Singh, Joshua Estelle, Yevgeniy Vorobeychik, Vishal Soni and Matthew Rudary. Distributed feedback control for decision making on supply chains. In *Fourteenth International Conference on Automated Planning and Scheduling*, 384-392. 2004 (ICAPS 2004).

Refereed Workshops

1. Ayan Mukhopadhyay and Yevgeniy Vorobeychik. A pipeline for emergency response. In *AI for Social Good Workshop (ICLR)*, 2019. **Best paper award**
2. Yi Li and Yevgeniy Vorobeychik. Path planning games. In *AAMAS Workshop on Optimization in Multiagent Systems*, 2018 (OptMAS-2018).
3. Chang Liu, Bo Li, Yevgeniy Vorobeychik, and Alina Oprea. Robust Linear Regression Against Training Data Poisoning. In *Workshop on AI and Security*, 2017 (AISec 2017). **Best paper award**
4. Jian Lou, Martin Van der Linden, Pranav Batra, Chen Hajaj*, Gregory Leo, Yevgeniy Vorobeychik, and Myrna Wooders. Rotating Proposer Mechanisms for Team Formation. In *Workshop on Cooperative Games in Multiagent Systems*, 2017 (CoopMAS-2017). **Visionary paper award**.
5. Aron Laszka, Yevgeniy Vorobeychik, Daniel Fabbri, Chao Yan and Bradley Malin. A game theoretic approach for alert prioritization. In *Workshop on Artificial Intelligence for Cyber Security*, 2017 (AICS-2017).
6. Ayan Mukhopadhyay, Chao Zhang, Yevgeniy Vorobeychik, Milind Tambe, Kenneth Pence and Paul Speer. Optimal allocation of police patrol resources using a continuous-time crime model. In *AAAI Spring Symposium on AI for Social Good*, 2017 (AISOC-2017).
7. Bo Li, Yevgeniy Vorobeychik, Muqun Li and Bradley Malin. Sanitizing large-scale medical records before publishing. In *AAAI Spring Symposium on AI for Social Good*, 2017 (AISOC-2017).
8. Zhiyu Wan, Yevgeniy Vorobeychik, Weiye Xia, Ellen Clayton, Murat Kantarcioglu and Bradley Malin. Game theory can expand access to genomic data while promoting privacy. In *AAAI Spring Symposium on AI for Social Good*, 2017 (AISOC-2017).
9. Aron Laszka, Waseem Abbas, Shankar Sastry, Yevgeniy Vorobeychik and Xenofon Koutsoukos. Optimal thresholds for intrusion detection systems. In *AAAI Spring Symposium on AI for Social Good*, 2017 (AISOC-2017).
10. Yue Yin, Yevgeniy Vorobeychik, Bo An and Noam Hazan. Optimally Protecting Elections. In *Workshop on Cooperative Games in Multiagent Systems*, 2016 (CoopMAS-2016).
11. Qingyu Guo, Bo An, Yevgeniy Vorobeychik, Long Tran-Thanh and Jiarui Gan. Optimal Interdiction on Cooperative Links to Prevent Attackers from Forming Coalitions. In *Workshop on Cooperative Games in Multiagent Systems*, 2016 (CoopMAS-2016).
12. Bo Li* and Yevgeniy Vorobeychik. Scalable optimization of randomized operational decisions in adversarial classification settings. In *Workshop on Artificial Intelligence and Security*, 2015 (AISec 2015).
13. Waseem Abbas, Aron Laszka, Yevgeniy Vorobeychik, and Xenofon Koutsoukos. Scheduling intrusion detection systems in resource-bounded cyber-physical systems. In *Workshop on Cyber-Physical Systems Security and Privacy*, 2015 (CPS-SPC 2015).
14. Swetasudha Panda* and Yevgeniy Vorobeychik. Stackelberg games for antibody design. In *AAAI 2015 Spring Symposium on Applied Computational Game Theory*, 2015.

15. Mason Wright and Yevgeniy Vorobeychik. Designing Fair, Efficient, and Incentive Compatible Team Formation Markets. In *AAAI 2015 Spring Symposium on Applied Computational Game Theory*, 2015.
16. Haifeng Zhang*, Yevgeniy Vorobeychik, Joshua Letchford, and Kiran Lakkaraju. Predicting rooftop solar adoption using agent-based modeling. In *AAAI 2014 Fall Symposium on Energy Market Prediction*, 2014.
17. Joshua Letchford, Kiran Lakkaraju, and Yevgeniy Vorobeychik. Individual Household Modeling of Photovoltaic Adoption. In *AAAI 2014 Fall Symposium on Energy Market Prediction*, 2014.
18. Yevgeniy Vorobeychik and John Wallrabenstein. Using machine learning for operational decisions in adversarial environments. In *Workshop on Optimization in Multiagent Systems*, 2014.
19. Yue Yin, Bo An, Yevgeniy Vorobeychik, and Jun Zhuang. Optimal Deceptive Strategies in Security Games: A Preliminary Study. In *AAAI Spring Symposium on Applied Computational Game Theory*, 2014.
20. Andrew Smith, Yevgeniy Vorobeychik, and Joshua Letchford. Multi-defender security games on networks. In *Workshop on Pricing and Incentives in Networks and Systems*, 2013.
21. Jason Tsai, Yundi Qian, Yevgeniy Vorobeychik, Christopher Kiekintveld, Milind Tambe. Bayesian Security Games for Controlling Contagion. In *AAMAS-2013 Workshop on Multi-agent Interaction Networks*, 2013.
22. Yevgeniy Vorobeychik, Michael Z. Lee, Adam Anderson, Mitch Adair, William Atkins, Alan Berryhill, Dominic Chen, Ben Cook, Jeremy Erickson, Steve Hurd, Ron Olsberg, Lyndon Pierson, and Owen Redwood. FIREAXE: The DHS Secure Design Competition Pilot. In *Eighth Cyber Security and Information Intelligence Research Workshop*, 2013.
23. Bo An, David Kempe, Christopher Kiekintveld, Eric Shieh, Satinder Singh, Milind Tambe, and Yevgeniy Vorobeychik. Security Games with Limited Surveillance: An Initial Report. In *AAAI-2012 Symposium on Game Theory for Security, Sustainability, and Health*, 2012.
24. Yevgeniy Vorobeychik, Bo An, and Milind Tambe. Adversarial patrolling games. In *AAAI-2012 Symposium on Game Theory for Security, Sustainability, and Health*, 2012.
25. Joshua Letchford and Yevgeniy Vorobeychik. Computing randomized security strategies in networked domains. In *AAAI-2011 Workshop on Applied Adversarial Reasoning and Risk Modeling*, 2011.
26. Jacomo Corbo and Yevgeniy Vorobeychik. The effects of quality and price on adoption dynamics of competing technologies. In *AAAI 2009 Fall Symposium on Complex Adaptive Systems and the Threshold Effect*, 2009.
27. Yevgeniy Vorobeychik and Yagil Engel. Incentive analysis of approximately efficient allocation algorithms. In *Agent-Mediated Electronic Commerce*, 2009.
28. Yevgeniy Vorobeychik, Daniel M. Reeves, and Michael P. Wellman. Automated Mechanism Design: Framework and Applications. In *AAAI 2007 Spring Symposium on Game Theory and Decision Theory*, 2007.
29. Yevgeniy Vorobeychik and Michael P. Wellman. Mechanism design based on beliefs about responsive play. In *EC-2006 Workshop on Alternative Solution Concepts for Mechanism Design*, 2006.
30. Joshua J. Estelle, Yevgeniy Vorobeychik, Michael P. Wellman, Satinder Singh, Christopher Kiekintveld, and Vishal Soni. Strategic procurement in TAC/SCM: an empirical game-theoretic analysis. In *AAMAS-2004 Workshop on Trading Agent Design and Analysis*, 2004.
31. Shih-Fen Cheng, Daniel M. Reeves, Yevgeniy Vorobeychik, and Michael P. Wellman. Notes on equilibria in symmetric games. In *AAMAS-2004 Workshop on Game Theory and Decision Theory*, 23-28, 2004.

Funding

(Total: \$31,534,411; as PI: \$8,896,194)

- Research Grant (2025-2027), Principal Investigator, “Recommender Mechanism Design for Safe Multi-Agent Interactions”, funded by the Foresight Institute for \$100,000
- Research Grant (2025-2028), Co-Principal Investigator, “PDASP: Explainable Auditing of ML Models for Privacy Violations”, funded by the National Science Foundation for \$400,000
- Research Grant (2025-2028), Co-Principal Investigator, “Object-Centric World Model Learning: A Holistic Approach for Multimodal Sensing” by the Air Force Office of Scientific Research for \$597,776
- Research Grant (2025-2028), Principal Investigator, “Hierarchical Adversarial Reinforcement Learning for Autonomous Cyber Defense”, funded by the Army Research Office for \$360,000
- Research Grant (2024-2026), Principal Investigator, “Federated Learning of Generative Adversarial Networks with Resource Constraints and Unreliable Communication”, funded by the Office of Naval Research for \$1,500,000
- Research Grant (2024-2026), Co-Principal Investigator, “CPS: MEDIUM: Certified Robust Learning for Multi-Agent Planning and Control”, funded by the National Science Foundation for \$1,200,000
- Research Grant (2023-2025), Principal Investigator, “RI: Small: Large-Scale Game-Theoretic Reasoning with Incomplete Information”, funded by the National Science Foundation for \$398,958
- Research Grant (2023-2024), co-Principal Investigator, “Forming Representative Cohorts: Sequential Recruitment under Uncertainty”, funded by JP Morgan Chase for \$95,000 (PI: Chien-Ju Ho)
- Research Grant (2020-2022), co-Principal Investigator, “AI Institute: Planning: TRustworthy Autonomous Systems Engineering (TRASE)”, funded by the National Science Foundation for \$500,000 (PI: Bruno Sinopoli)
- Research Grant (2019-2022), Principal Investigator, “FAI: FairGame: An Audit-Driven Game Theoretic Framework for Development and Certification of Fair AI”, funded by the National Science Foundation/Amazon for \$750,000
- Research Grant (2019-2022), Principal Investigator, “RI: Small: Protecting Elections from Malicious Influence”, funded by the National Science Foundation for \$368,178
- Research Grant (2019-2022), Principal Investigator, “Multi-Round Deception Games”, funded by the Army Research Office for \$382,204
- Research Grant (2018-2023), co-Principal Investigator, “Multi-Scale Network Games of Collusion and Competition”, funded by the Army Research Office for \$6,250,000/5 years (PI: Mingyan Liu)
- Research Grant (2018-2021), co-Principal Investigator “DDDAS-as-a-Service: Dynamic Resource Management Algorithms and Systems Software for an Infosymbiotics Hosting Platform”, funded by the Air Force Office for Scientific Research for \$606,761/3 years (PI: Anirudha Gokhale)
- Research Grant (2017-2022), Principal Investigator “CAREER: Adversarial Artificial Intelligence for Social Good”, funded by the National Science Foundation for \$518,643
- Research Grant (2016-2018), Principal Investigator “Integrated Safety Incident Forecasting and Analysis”, funded by the National Science Foundation for \$199,993
- Research Grant (2016-2018), key investigator “Crowd Sourcing Labels from Electronic Medical Records to Enable Biomedical Research”, funded by the National Institutes of Health for \$929,202 (PI: Daniel Fabbri)

- Training Grant (2016-2019), participating faculty “BIDS: Vanderbilt Training Program in Big Biomedical Data Science”, funded by the National Institutes of Health for \$1,821,798 (PI: Bradley Malin)
- Research Grant (2016-2020), key investigator “Genetic Privacy and Identity in Community Settings – GetPreCiSe”, funded by the National Institutes of Health for \$4,012,640 (PI: Bradley Malin and Ellen Clayton)
- Research Grant (2016-2019), Principal Investigator “Designing Resilient Data Processing Systems for Adversarial Environments”, funded by the Army Research Office for \$360,000/3 years
- Research Grant (2015-2018), Principal Investigator “Protocol Design for Decentralized Coordination”, funded by the Office of Naval Research for \$416,167/3 years
- Research Grant (2015-2018), Principal Investigator “RI: Small: Theory and Application of Mechanism Design for Team Formation”, funded by the National Science Foundation for \$442,051/3 years
- Research Grant (2016-2019), co-Principal Investigator “A Risk Management Framework for Identifiability in Genomics Research”, funded under the National Institutes of Health for \$2,134,592 (PI: Bradley Malin)
- Research Grant (2014-2017), co-Principal Investigator “Science of Secure and Resilient Cyber-Physical Systems”, funded by Air Force Research Laboratory for \$3,810,411/3 years (PI: Xenofon Koutsoukos)
- Research Grant (2014-2016), Principal Investigator “Optimal Policing Using Game Theory and Big Data”, funded under the Vanderbilt University Discovery Grant program for \$100,000/2 years
- Research Grant (2013-2016), Principal Investigator “Using Machine Learning in Adversarial Environments”, funded under the Sandia Laboratory Directed Research and Development Program for \$1,500,000/3 years
- Research Grant (2013-2016), Principal Investigator “Design of Social and Economic Incentives and Information Campaigns to Promote Solar Technology Diffusion Through Data-Driven Behavior Modeling”, funded under DOE SEEDS Program for \$2,300,000/3 years
- Research Grant (2012-2013), Principal Investigator “Resilience and Trust in the Face of Failures in HPC,” funded under the Sandia Advanced Simulation and Computing program for \$200,000/1 year
- Research Grant (2011-2012), Principal Investigator “Simulation-Based Strategic Analysis of Complex Security Scenarios,” funded under the Sandia Laboratory Directed Research and Development Program for \$500,000/2 years

Professional Activities

Invited Presentations

1. CVPR 2025 VOCVALC (International Workshop on Visual Odometry and Computer Vision Applications Based on Location Clues), Keynote, June 2025
2. Northwestern University (CS), April 2025
3. University of Chicago (CS), April 2025
4. Carnegie Mellon University (CS), March 2025
5. New York University (ECE), February 2025
6. Missouri S&T (CS), April 2024
7. AAAI Workshop on AI for Cybersecurity, February 2024

8. University of Michigan (CSE), January 2024
9. Conference on Game Theory and AI for Security, October 2023
10. Brandeis University (CS), April 2023
11. Harvard University (CS), April, 2023
12. GraphEx Symposium, May, 2022
13. National Academies, virtual workshop on *Biological Means of Information Transfer and Applications of Stored Data* (presenter and panelist), January, 2022
14. University of Nebraska at Omaha, October, 2021
15. Harvard University, November, 2019
16. Carnegie Mellon University, September, 2019
17. Columbia University, July, 2019
18. Penn State University, April, 2019
19. Washington University, St. Louis, March, 2017
20. Washington University, St. Louis, December, 2017
21. University of Southern California, July, 2017
22. Northeastern University, June, 2017
23. Workshop on Cooperative Games in Multiagent Systems (**Keynote**), May, 2017
24. Harvard University (CS), April, 2017
25. University of Maryland (CS), March, 2017
26. University of Texas, Austin (CS), January, 2017
27. International Joint Conference on Artificial Intelligence (**Early Career Spotlight talk**), July, 2016
28. University of California, Berkeley, June, 2016
29. Sandia National Laboratories, June, 2016
30. Bar Ilan Symposium on Foundations of Artificial Intelligence (BISFAI 2015; **Keynote**), Bar Ilan University, May, 2015
31. University of California, Davis, March 2015
32. University of California, Berkeley, March 2015
33. University of Southern California (Computer Science), March, 2014
34. Naval Postgraduate School (Operations Research), July, 2013
35. RPI (Computer Science), March, 2013
36. Vanderbilt University (EECS), February, 2013
37. Georgia Institute of Technology (Computational Science and Engineering), February, 2013
38. Cyber Security and Information Intelligence Research Workshop, January, 2013
39. INFORMS Computing Society Meeting, January, 2013
40. INFORMS Annual Meeting, October, 2012
41. Carnegie Mellon University, March, 2012
42. INFORMS Optimization Society Meeting, February, 2012
43. INFORMS Annual Meeting, November, 2011
44. University of Michigan (School of Information), November, 2011
45. University of Michigan (Computer Science and Engineering), October, 2011

46. University of Michigan (Industrial and Operations Engineering), October, 2011
47. University of Michigan (Center for the Study of Complex Systems), September, 2011
48. Indiana University Purdue University Indianapolis (Computer Science), March, 2010
49. Naval Postgraduate School (Operations Research), February, 2010
50. Sandia National Laboratories, January, 2010
51. University of North Carolina, Charlotte (Software and Information Systems), February, 2009
52. Workshop on Information in Networks, September, 2009
53. RAND Corporation, March, 2008
54. University of Southern California (Computer Science), March, 2008
55. University of Pennsylvania (Wharton Business School, OIM), January, 2008
56. Brooklyn College (Computer Science), June, 2007
57. Decentralization Conference, April, 2007

Tutorials

- AAMAS 2019 (Adversarial Machine Learning, with Bo Li), May, 2019
- AAAI Conference on Artificial Intelligence, February, 2018, 2019 (Adversarial Machine Learning, together with Bo Li > 300 **registered attendees**)
- International Conference on Economics and Computation, June, 2017 (Security and Game Theory, joint with Fei Fang and Bo An)
- International Joint Conference on Artificial Intelligence, July, 2009 (Automated Mechanism Design, together with Vincent Conitzer)
- International Joint Conference on Autonomous Agents and Multiagent Systems, May, 2009 (Automated Mechanism Design, together with Vincent Conitzer)
- ACM E-Commerce Conference, July, 2008 (Automated Mechanism Design, together with Vincent Conitzer)

Reviewing and Editorial Duties

- *Journals:*
 - Journal of Autonomous Agents and Multiagent Systems (Editor)
 - Mathematics of Operations Research
 - Communications of the ACM
 - ACM Transactions on Economics and Computation
 - Journal of Artificial Intelligence Research
 - Artificial Intelligence Journal
 - Journal of Machine Learning Research
 - Machine Learning
 - Operations Research
 - Discrete Applied Mathematics
 - INFORMS Journal on Computing
 - Games and Economics Behavior
 - Journal of Autonomous Agents and Multiagent Systems

- Production and Operations Management Journal
- ACM Transactions on the Web
- Computational Intelligence
- IEEE Transactions on Services Computing
- Information Economics and Policy
- Computational Economics
- IEEE Transactions on Cloud Computing
- *Conferences:*
 - Conference on Web, Internet, and Network Economics (program committee, WINE '12)
 - ACM Conference on Economics and Computation (previously Electronic Commerce) (program committee, EC '09, '10, '11, '12, '13, '14, '16)
 - Conference on Uncertainty in Artificial Intelligence (program committee, UAI '09, '10, '12, '15)
 - International Joint Conference on Autonomous Agents and Multiagent Systems (program committee, AAMAS '08, '10, '11, '12, '14, '15; senior program committee, AAMAS '16, '17, '18, '19; **scholarship co-chair**, AAMAS '17, **webmaster**, AAMAS'18; **area chair**, AAMAS '20)
 - AAAI Conference on Artificial Intelligence (program committee, AAAI '08, '09, '10, '11, '12, '13, '14, '15; senior program committee, AAAI '16-'19; **area chair**, AAAI '20)
 - International Joint Conference on Artificial Intelligence (program committee, IJCAI '09, '11; senior program committee, IJCAI '13, '15-'20; **distinguished paper award committee**, IJCAI '15; **tutorials co-chair**, IJCAI '16)
 - International Conference on Artificial Intelligence and Statistics (program committee, AISTATS '11)
 - Annual Cyber Security and Information Intelligence Research Workshop (CSIIRW '12)
 - International Conference on High Confidence Networked Systems (HiCoNS '14)
 - International Conference on Cyber Physical Systems (ICCPS '15)
 - International Conference on Decision and Game Theory for Security (GameSec '14, '15, '16, '17; **program co-chair**, '19)

Proposal Reviewing

- NSF panel (ICES program, Robust Intelligence, SaTC, STTR/SBIR, *CISE Expeditions in Computing, AI Institutes*)
- DOE Office of Science STTR/SBIR panel (cybersecurity)
- DHS
- ARO

Professional Society Memberships

- IFAAMAS board member, 2021-present
- IEEE member, 2015-present
- ACM member, 2008-present (Senior Member since 2021)
- AAAI member, 2003-present (Senior Member since 2019)

- AIS member, 2009-2013
- INFORMS member, 2010-2018
- INFORMS ICS member, 2010-2018

University Service

- McKelvey Research Advisory Committee (2021)
- McKelvey Academic Integrity panel (2020, 2021-2022) DSC
- Search committee (CSE, 2020, 2022)
- Developing joint WashU+HSSU BS/MS program
- BS in Data Science curriculum committee
- MS in Data Science: equity in data science curriculum committee

Courses Taught

- CSE 555T-Adversarial AI (Spring, 2019, Spring, 2020, Spring, 2021, Spring 2022, Spring 2023, Spring 2024 (3 UG, 16 G); Spring, 2022 (2 UG, 16 G)): developed and taught
- CSE 411A-AI and Society (Fall 2019, 2020, 2021, 2022, 2023, 2024): developed and taught
- CS 6368-Computational Economics (Fall, 2013; Spring, 2015, 2017): developed and taught
- CS 6362-Machine Learning (Spring, 2014, 2016; Fall, 2017): developed and taught
- CS 4260-Artificial Intelligence (Fall, 2014, 2015, 2016): taught
- CS 3269-Projects in Artificial Intelligence (Spring, 2014, 2015, 2016): taught

Current Students

1. Anindya Sarkar (Ph.D. student, Computer Science)
2. Junlin Wu (Ph.D. student, Computer Science)
3. Michael Lanier (Ph.D. student, Computer Science)

Alumni

Postdocs

1. Kai Zhou (2018-2020): now Assistant Professor of Computer Science at Hong Kong Polytechnic University, China.
2. Chen Hajaj (2016-2018): now Assistant Professor of Industrial Engineering and Management at Ariel University, Israel.
3. Aron Laszka (co-advised with Xenofon Koutsoukos, 2014-2015): now Assistant Professor of Information Sciences and Technology at Penn State University.
4. Waseem Abbas (co-advised with Xenofon Koutsoukos, 2013-2015): now Assistant Professor of Systems Engineering at University of Texas at Dallas.

Ph.D. Students (Primary Advisor)

1. Junlin Wu (Ph.D., Computer Science, Washington University in St. Louis, 2025)
 - Dissertation title: “Trustworthy Autonomy Through Robust Control and Alignment”
 - Current position: Research Scientist, Amazon.
2. Andrew Estornell (Ph.D., Computer Science, Washington University in St. Louis, 2023; co-advised with Sanmay Das)
 - Dissertation title: “Consequences and Incentives in Fair Learning”
 - Current position: Research Scientist, ByteDance.
3. Rajagopal Venkatasaramani (Ph.D., Computer Science, Washington University in St. Louis, 2023)
 - Dissertation title: “Honesty Is Not Always the Best Policy: Defending Against Membership Inference Attacks on Genomic Data”
 - Current position: Lecturer, Northeastern University.
4. Jinghan Yang (Ph.D., Computer Science, Washington University in St. Louis, 2023)
 - Dissertation title: “Securing Autonomous Driving: Addressing Adversarial Attacks and Defenses”
5. Sixie Yu (Ph.D., Computer Science, Washington University in St. Louis, 2022).
 - Dissertation title: “Design and Analysis of Strategic Behavior in Networks”
 - Current position: Security and Machine Learning Researcher, Stellar Cyber.
6. Liang Tong (Ph.D., Computer Science, Washington University in St. Louis, 2021).
 - **Turner Dissertation Award Winner, 2022**
 - Dissertation title: “Towards Deploying Robust Machine Learning Systems”
 - Current position: Senior ML Researcher, Stellar Cyber.
7. Ayan Mukhopadhyay (Ph.D., Computer Science, Vanderbilt University, 2019); first position: postdoc at Stanford; now Research Scientist at Vanderbilt University.
 - **Google AI Impact Scholar Award Winner on AI for Social Good, 2019**
 - Dissertation title: “Robust Incident Prediction, Resource Allocation and Dynamic Dispatch”
 - First position: Postdoc, Stanford University
 - Current position: Research Scientist, Vanderbilt University
8. Jian Lou (Ph.D., Computer Science, Vanderbilt University, 2019).
 - Dissertation title: “Towards Improving Allocative Efficiency in Games and Markets”
 - Current position: Applied Scientist, Amazon.
9. Yi Li (Ph.D., Computer Science, Vanderbilt University, 2019).
 - Dissertation title: “Resilient Decision Making in Adversarial and Uncertain Environments”
 - Current position: Machine Learning Scientist, Visa.
10. Swetasudha Panda (Ph.D., Computer Science, Vanderbilt University, 2018).
 - Dissertation title: “Algorithms For Large Scale Adversarial Decision Problems”
 - Current position: Research Scientist in the Machine Learning Research Group, Oracle Labs.

11. Haifeng Zhang (Ph.D., Computer Science, Vanderbilt University, 2017);
 - Dissertation title: “Algorithmic Marketing with Data-driven Simulations”
 - First position: postdoc at Carnegie Mellon University
 - Current position: Research Data Scientist, Roku, Inc.
12. Bo Li (Ph.D., Computer Science, Vanderbilt University, 2016)
 - **Symantec Research Labs Fellow, 2015**
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 - Current position: Associate Professor of Computer Science, UIUC.

Citizenship

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