| INTERESTS rics, game theory, mechanism design and algorithm design. I am interested in tions in sustainability, healthcare, social sciences, operations management, am platforms. PRIMARY Assistant Professor September EMPLOYMENT Management Science and Engineering Stanford Causal AI Lab (Director/PI) Institute for Computational and Mathematical Engineering (December 2023 -) Computer Science (by courtesy; April 2023 -) Electrical Engineering (by courtesy; September 2023 -) Stanford Causal Science Center (Associate Director) Stanford AI Lab (affiliated faculty) Stanford Human-Centered Artificial Intelligence (affiliated faculty) Stanford University Principal Researcher August 2019 - Augu Co-lead team on Automated Learning and Intelligence for Causation and Ecor Microsoft Research, New England Postdoctoral Researcher June 2016 - Augu Microsoft Researcher August 2014 - Jun Microsoft Researcher August 2014 - Jun Microsoft Researcher August 2009 - Augu Cornell University, Department of Computer Science Thesis: Efficiency of Mechanisms in Complex Markets - Thesis: Efficiency of Mechanisms in Complex Markets - Advisor: Prof. Éva Tardos - Thesis Committee: Éva Tardos, Larry Blume, Robert Kleinberg, Emin Gun | | | |
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| INTERESTS rics, game theory, mechanism design and algorithm design. I am interested in tions in sustainability, healthcare, social sciences, operations management, an platforms. PRIMARY Assistant Professor September EMPLOYMENT Management Science and Engineering Stanford Causal AI Lab (Director/PI) Institute for Computational and Mathematical Engineering (December 2023 -) Computer Science (by courtesy; September 2023 -) Stanford Causal Science Center (Associate Director) Stanford Human-Centered Artificial Intelligence (affiliated faculty) Stanford Data Science (affiliated faculty) Stanford University Principal Researcher August 2019 - Augu Co-lead team on Automated Learning and Intelligence for Causation and Ecor Microsoft Research, New England Researcher June 2016 - Augu Microsoft Research, New England Postdoctoral Researcher August 2019 - Augu Co-lead team on Automated Learning and Intelligence for Causation and Ecor Microsoft Research, New England Postdoctoral Researcher June 2016 - Augu Microsoft Research, NYC EDUCATION PhD in Computer Science August 2014 - Jun Microsoft Research, NYC PhD in Computer Science August 2010 - Augu Cornell University, Department of Computer Science - Thesis: Efficiency of M | | Office 252 475 Via Ortega | E-mail: vsyrgk@stanford.edu |
| EMPLOYMENT Management Science and Engineering Stanford Causal AI Lab (Director/PI) Institute for Computational and Mathematical Engineering (December 2023 -) Computer Science (by courtesy; April 2023 -) Electrical Engineering (by courtesy; September 2023 -) Stanford Causal Science Center (Associate Director) Stanford AI Lab (affiliated faculty) Stanford Data Science (affiliated faculty) James and Anna Marie Spilker Faculty Fellow Stanford University Principal Researcher August 2019 - Augu Co-lead team on Automated Learning and Intelligence for Causation and Econ Microsoft Research, New England Researcher June 2016 - Augu Microsoft Research, New England Postdoctoral Researcher August 2019 - Augu Co-lead team on Automated Learning and Intelligence for Causation and Econ Microsoft Research, New England Postdoctoral Researcher August 2014 - Jun Microsoft Research, NYC August 2009 - Augu Cornell University, Department of Computer Science Thesis: Efficiency of Mechanisms in Complex Markets Advisor: Prof. Eva Tardos Thesis: Committee: Eva Tardos, Larry Blume, Robert Kleinberg, Emin Gun Diploma in Engineering September 200 | | My research lies in the areas of machine learning, causal inference, statistics, economet- rics, game theory, mechanism design and algorithm design. I am interested in applica- tions in sustainability, healthcare, social sciences, operations management, and digital platforms. | |
| Microsoft Research, New England Postdoctoral Researcher Microsoft Research, NYC August 2014 - Jun Microsoft Research, NYC EDUCATION PhD in Computer Science Cornell University, Department of Computer Science - Thesis: Efficiency of Mechanisms in Complex Markets - Advisor: Prof. Éva Tardos - Thesis Committee: Éva Tardos, Larry Blume, Robert Kleinberg, Emin Gun Diploma in Engineering National Technical University of Athens, Greece School of Electrical and Computer Engineering - Major: Computer Science and Computer Engineering - Major: Control Theory and Networks - Thesis: Equilibria in Congestion Game Models: Existence, Complexity and E - Thesis Committee: Stathis Zachos, Aris Pagourtzis, Dimitris Fotakis - GPA: 9.66/10, 10/10 (major GPA) (top 1%) HONORS AND AWARDS NSF CAREER Award, PI, 2024 Amazon Research Award, PI, 2023 Bodossaki Distinguished Young Scientist Award in Applied Sciences, 202- | | Management Science and Engineering Stanford Causal AI Lab (Director/PI) Institute for Computational and Mathematical Engineering (December 2023 -) Computer Science (by courtesy; April 2023 -) Electrical Engineering (by courtesy; September 2023 -) Stanford Causal Science Center (Associate Director) Stanford AI Lab (affiliated faculty) Stanford Human-Centered Artificial Intelligence (affiliated faculty) Stanford Data Science (affiliated faculty) James and Anna Marie Spilker Faculty Fellow Stanford University Principal Researcher Co-lead team on Automated Learning and Intelligence for Causation and Economics Microsoft Research, New England | |
| Microsoft Research, NYCEDUCATIONPhD in Computer Science Cornell University, Department of Computer Science - Thesis: Efficiency of Mechanisms in Complex Markets - Advisor: Prof. Éva Tardos - Thesis Committee: Éva Tardos, Larry Blume, Robert Kleinberg, Emin GunDiploma in Engineering National Technical University of Athens, Greece School of Electrical and Computer Engineering - Major: Computer Science and Computer Engineering - Major: Control Theory and Networks - Thesis Committee: Stathis Zachos, Aris Pagourtzis, Dimitris Fotakis - GPA: 9.66/10, 10/10 (major GPA) (top 1%)HONORS AND AWARDSNSF CAREER Award, PI, 2024 Amazon Research Award, PI, 2023 Bodossaki Distinguished Young Scientist Award in Applied Sciences, 2023 | | | June 2016 - August 2019 Igland |
| Cornell University, Department of Computer Science Thesis: Efficiency of Mechanisms in Complex Markets Advisor: Prof. Éva Tardos Thesis Committee: Éva Tardos, Larry Blume, Robert Kleinberg, Emin Gun Diploma in Engineering September 2004 to Ju National Technical University of Athens, Greece School of Electrical and Computer Engineering Major: Computer Science and Computer Engineering Minor: Control Theory and Networks Thesis Committee: Stathis Zachos, Aris Pagourtzis, Dimitris Fotakis GPA: 9.66/10, 10/10 (major GPA) (top 1%) HONORS AND NSF CAREER Award, PI, 2024 Awards Google Research Scholar Award, PI, 2024 Amazon Research Award, PI, 2023 Bodossaki Distinguished Young Scientist Award in Applied Sciences, 2023 | | | August 2014 - June 2016 |
| Diploma in EngineeringSeptember 2004 to Juniversity of Athens, GreeceNational Technical University of Athens, GreeceSchool of Electrical and Computer Engineering- Major: Computer Science and Computer Engineering- Minor: Control Theory and Networks- Thesis: Equilibria in Congestion Game Models: Existence, Complexity and E- Thesis: Equilibria in Congestion Game Models: Existence, Complexity and E- Thesis Committee: Stathis Zachos, Aris Pagourtzis, Dimitris Fotakis- GPA: 9.66/10, 10/10 (major GPA) (top 1%)HONORS ANDAWARDSMSF CAREER Award, PI, 2024Google Research Scholar Award, PI, 2023Bodossaki Distinguished Young Scientist Award in Applied Sciences, 2020 | Education | Cornell University, Department Thesis: Efficiency of Mechanism Advisor: Prof. Éva Tardos | ms in Complex Markets |
| AWARDS Google Research Scholar Award, PI, 2024 Amazon Research Award, PI, 2023 Bodossaki Distinguished Young Scientist Award in Applied Sciences, 2023 | | Diploma in Engineering National Technical Universit School of Electrical and Compute Major: Computer Science and Minor: Control Theory and Ne Thesis: Equilibria in Congestio Thesis Committee: Stathis Zac | September 2004 to July 2009 by of Athens, Greece er Engineering Computer Engineering etworks on Game Models: Existence, Complexity and Efficiency chos, Aris Pagourtzis, Dimitris Fotakis |
| | | Google Research Scholar Aw Amazon Research Award, PI Bodossaki Distinguished You | vard, PI, 2024 I, 2023 Ing Scientist Award in Applied Sciences, 2023 (award |

Vasileios (Vasilis) Syrgkanis, Assistant Professor, Stanford University

| | Best paper award, ACM Conference on Learning Theory, COLT 2019 Best spotlight talk award, 10th Annual Machine Leaning Symposium, New York Academy of Sciences, 2016 Best paper award, 29th Conference on Neural Inf. Proc. Systems, NeurIPS 2015 Best paper award, 16th ACM Conference on Economics and Computation, EC 2015 Simons Foundation Fellowship, 2012-2014 Facebook Fellowship Finalist, 2012 Sarafi's Award for ranking 1st in the 4th year of studies 2007-2008 Award by the Greek State Scholarship Foundation for ranking 1st among 500 students of my department during the 4th year of my studies 2007-2008 "Papakyriakopoulos" Award for excellence in Mathematics among the Electrical and Computer Engineering students, 2005-2006 |
|---------------------------------|--|
| External Research Support | 1. NSF Award IIS-2337916, CAREER: Automated and Robust Causal Inference for Data-Driven Decisions, 2024-2029, \$600,000. |
| | HAI Cloud Credits Grant. PI. Joint with Russ Altman, Susan Athey, Monica Lam, Shriti Raj. 2024, AWS cloud credits \$100,000. |
| | 3. Google Research Scholar Award, 2024-2025. Unrestricted gift fund: \$60,000. |
| | Amazon Research Award, 2023-2025. Unrestricted gift fund: \$70,000. AWS cloud credits: \$50,000 |
| Top 5 Cited Publications | Cosnstantinos Daskalakis, Andrew Ilyas, Vasilis Syrgkanis, Haoyang Zeng Training GANs with Optimism International Conference on Learning Representations, ICLR, April 2018 Citations: 600 (Google Scholar, 02/24/2025) |
| | Vasilis Syrgkanis, Alekh Agarwal, Haipeng Luo, Robert E. Schapire Fast Convergence of Regularized Learning in Games 29th Annual Conference on Neural Information Processing Systems, NeurIPS15, December 2015 Best paper award Citations: 296 (Google Scholar, 02/24/2025) |
| | 3. Dylan Foster, Vasilis Syrgkanis Orthogonal Statistical Learning (Statistical Learning with a Nuisance Component) 31st Annual Conference on Learning Theory COLT, June 2019 Best Paper Award Full version at the Annals of Statistics, June 2023 Citations: 280 (Google Scholar, 02/24/2025) |
| | Vasilis Syrgkanis, Eva Tardos <i>Composable and Efficient Mechanisms</i> 45th ACM Symposium on the Theory of Computing, STOC, June 2013 Citations: 269 (Google Scholar, 02/24/2025) |
| | 5. Yishay Mansour, Alex Slivkins, Vasilis Syrgkanis Bayesian Incentive-Compatible Bandit Exploration 16th ACM Conference on Economics and Computation, EC, June 2015 Full version at Operations Research, July 2020 Citations: 182 (Google Scholar, 02/24/2025) |
| CITATION STATISTICS | h-index: 42 (Google Scholar, 02/24/2025) i10-index: 74 (Google Scholar, 02/24/2025) total citations: 5550 (Google Scholar, 02/24/2025) |

- PUBLICATIONS
 78. Kara Liu, Russ Altman, Vasilis Syrgkanis Detecting clinician implicit biases in diagnoses using proximal causal inference Pacific Symposium on Biocomputing, PSB25
 - 77. Jiyuan Tan, Jose Blanchet, Vasilis Syrgkanis
 Consistency of Neural Causal Partial Identification
 38th Annual Conference on Neural Information Processing Systems, NeurIPS24
 - 76. Vahid Balazadeh, Keertana Chidambaram, Viet Nguyen, Rahul G. Krishnan, Vasilis Syrgkanis Sequential Decision Making with Expert Demonstrations under Unobserved Heterogeneity 38th Annual Conference on Neural Information Processing Systems, NeurIPS24
 - 75. Jikai Jin, Vasilis Syrgkanis Learning Causal Representations from General Environments: Identifiability and Intrinsic Ambiguity 38th Annual Conference on Neural Information Processing Systems, NeurIPS24
 - Yash Chandak, Shiv Shankar, Vasilis Syrgkanis, Emma Brunskill *Adaptive Instrument Design for Indirect Experiments* 12th International Conference on Learning Representations, ICLR2024
 - 73. Divyat Mahajan, Ioannis Mitliagkas, Brady Neal, Vasilis Syrgkanis Empirical Analysis of Model Selection for Heterogenous Causal Effect Estimation 12th International Conference on Learning Representations, **ICLR2024**
 - 72. Hui Lan, Vasilis Syrgkanis
 Causal Q-Aggregation for CATE Model Selection
 27th International Conference on Artificial Intelligence and Statistics, AISTATS2024
 - 71. A. Bennett, N. Kallus, X. Mao, N. Whitney, V. Syrgkanis, M. Uehara Minimax Instrumental Variable Regression and L2 Convergence Guarantees without Identification or Closedness 36th Annual Conference on Learning Theory, COLT2023
 - 70. A. Bennett, N. Kallus, X. Mao, N. Whitney, V. Syrgkanis, M. Uehara Inference on Strongly Identified Functionals of Weakly Identified Functions 36th Annual Conference on Learning Theory, COLT2023
 - Qizhao Chen, Vasilis Syrgkanis, Morgane Austern Debiased Machine Learning without Sample-Splitting for Stable Estimators 36th Annual Conference on Neural Information Processing Systems, NeurIPS22, December 2022
 - Dhruv Rohatgi, Vasilis Syrgkanis Robust Generalized Method of Moments: A Finite Sample Viewpoint 36th Annual Conference on Neural Information Processing Systems, NeurIPS22, December 2022
 - 67. Vahid Balazadeh Meresht, Vasilis Syrgkanis, Rahul G Krishnan Partial Identification of Treatment Effects with Implicit Generative Models 36th Annual Conference on Neural Information Processing Systems, NeurIPS22, December 2022 Spotlight Presentation

- V. Chernozhukov, W. K. Newey, V. Quintas-Martinez, V. Syrgkanis RieszNet and ForestRiesz: Automatic Debiased Machine Learning with Neural Nets and Random Forests
 39th International Conference on Machine Learning, ICML, July 2022 Long Oral Presentation
- Khashayar Khosravi, Greg Lewis, Vasilis Syrgkanis Non-Parametric Inference Adaptive to Intrinsic Dimension 1st Conference on Causal Learning and Reasoning, CLeaR, April 2022
- 64. Jann Spiess, Vasilis Syrgkanis Evidence-Based Policy Learning
 1st Conference on Causal Learning and Reasoning, CLeaR, April 2022
- 63. Kartik Ahuja, Divyat Mahajan, Ioannis Mitliagkas, Vasilis Syrgkanis Towards efficient representation identification in supervised learning 1st Conference on Causal Learning and Reasoning, CLeaR, April 2022
- 62. Denis Nekipelov, Vira Semenova, Vasilis Syrgkanis Regularized Orthogonal Machine Learning for Nonlinear Semiparametric Models **The Econometrics Journal, January 2022**
- 61. Morgane Austern, Vasilis Syrgkanis Asymptotics of the Bootstrap via Stability with Applications to Inference with Model Selection
 35th Annual Conference on Neural Information Processing Systems, NeurIPS21, December 2021
- K. Battocchi, E. Dillon, M. Hei, G. Lewis, M. Oprescu, V. Syrgkanis *Estimating the Long-Term Effects of Novel Treatments* 35th Annual Conference on Neural Information Processing Systems, NeurIPS21, December 2021
- Greg Lewis, Vasilis Syrgkanis Double/Debiased Machine Learning for Dynamic Treatment Effects via g-Estimation 35th Annual Conference on Neural Information Processing Systems, NeurIPS21, December 2021
- 58. Sheffer et al. Genome-scale screens identify factors regulating tumor cell responses to natural killer cells
 Nature Genetics, July 2021
- Daniel Ngo, Logan Stapleton, Vasilis Syrgkanis, Zhiwei Steven Wu Incentivizing Compliance with Algorithmic Instruments 38th International Conference on Machine Learning, ICML, July 2021
- 56. Amit Sharma, Vasilis Syrgkanis, Cheng Zhang, Emre Kiciman DoWhy: Addressing Challenges in Expressing and Validating Causal Assumptions ICML 2021 Workshop on the Neglected Assumptions in Causal Inference, July 2021
- 55. Annie Liang, Xiaosheng Mu, Vasilis Syrgkanis Dynamically Aggregating Diverse Information
 22nd ACM Conference on Economics and Computation, EC, July 2021
 Full version at Econometrica, January 2022

- 54. Tri Dao, Govinda Kamath, Vasilis Syrgkanis, Lester Mackey Knowledge Distillation as Semi-Parametric Inference International Conference on Learning Representations, ICLR, May 2021
- 53. Gali Noti, Vasilis Syrgkanis
 Bid Prediction in Repeated Auctions with Learning
 The Web Conference, WWW, April 2021
- 52. Nishanth Dikkala, Greg Lewis, Lester Mackey, Vasilis Syrgkanis Minimax Estimation of Conditional Moment Models
 34th Annual Conference on Neural Information Processing Systems, NeurIPS20, December 2020 Preliminary version appeared as: Adversarial Generalized Method of Moments
- Vasilis Syrgkanis, Manolis Zampetakis
 Estimation and Inference with Trees and Forests in High Dimensions
 32nd Annual Conference on Learning Theory COLT, July 2020
- 50. Constantinos Daskalakis, Maxwell Fishelson, Brendan Lucier, Vasilis Syrgkanis, Santhoshini Velusamy
 Simple, Credible, and Approximately-Optimal Auctions
 21st ACM Conference on Economics and Computation, EC, July 2020
 Full version accepted at Siam Journal on Computing, SICOMP, 2022
- 49. Dylan Foster, Vasilis Syrgkanis Orthogonal Statistical Learning (Statistical Learning with a Nuisance Component) 31st Annual Conference on Learning Theory COLT, June 2019 Best Paper Award Full version Accepted at the Annals of Statistics, 2023
- Victor Chernozhukov, Mert Demirer, Greg Lewis, Vasilis Syrgkanis Semi-Parametric Efficient Policy Learning with Continuous Actions 33rd Annual Conference on Neural Information Processing Systems, NeurIPS19, December 2019
- 47. Jonas Mueller, Vasilis Syrgkanis, Matt Taddy Low-rank Bandit Methods for High-dimensional Dynamic Pricing
 33rd Annual Conference on Neural Information Processing Systems, NeurIPS19, December 2019
- 46. V. Syrgkanis, V. Lei, M. Oprescu, M. Hei, K. Battocchi, G. Lewis Machine Learning Estimation of Heterogeneous Treatment Effects with Instruments
 33rd Annual Conference on Neural Information Processing Systems, NeurIPS19, December 2019 Spotlight Presentation
- Miruna Oprescu, Vasilis Syrgkanis, Zhiwei Steven Wu Orthogonal Random Forest for Heterogeneous Treatment Effect Estimation 36th International Conference on Machine Learning, ICML, June 2019
- 44. Mark DM Leiserson, Vasilis Syrgkanis, Amy Gilson, Miroslav Dudik, Samuel Funt, Alexandra Snyder, Lester Mackey A Multifactorial Model of T Cell Expansion and Durable Clinical Benefit in Response to a PD-L1 Inhibitor PLOS ONE, December 2018

- Akshay Krishnamurthy, Zhiwei Steven Wu, Vasilis Syrgkanis Semiparametric Contextual Bandits
 35th International Conference on Machine Learning, ICML, July 2018
- Lester Mackey, Vasilis Syrgkanis, Ilias Zadik Second-order Orthogonality for Causal Inference in High Dimensions 35th International Conference on Machine Learning, ICML, July 2018
- Yash Deshpande, Lester Mackey, Vasilis Syrgkanis, Matt Taddy Accurate Inference for Adaptive Linear Models
 35th International Conference on Machine Learning, ICML, July 2018
- Annie Liang, Xiaoseng Mu, Vasilis Syrgkanis Optimal and Myopic Information Acquisition
 19th ACM Conference on Economics and Computation, EC, June 2018
- Yiling Chen, Nicole Immorlica, Brendan Lucier, Vasilis Syrgkanis, Juba Ziani Optimal Data Acquisition for Statistical Estimation
 19th ACM Conference on Economics and Computation, EC, June 2018
- Zhe Feng, Chara Podimata, Vasilis Syrgkanis Learning to Bid Without Knowing your Value
 19th ACM Conference on Economics and Computation, EC, June 2018
- Nicole Immorlica, Brendan Lucier, Jieming Mao, Vasilis Syrgkanis, Christos Tzamos Combinatorial Assortment Optimization
 14th Conference on Web and Internet Economics, WINE, December 2018
- 36. Amy Greenwald, Takehiro Oyakawa, Vasilis Syrgkanis Simple vs Optimal Contests with Convex Costs The Web Conference, WWW, April 2018
- 35. Cosnstantinos Daskalakis, Andrew Ilyas, Vasilis Syrgkanis, Haoyang Zeng Training GANs with Optimism International Conference on Learning Representations, ICLR, April 2018
- Nikhil Devanur, Balasubramanian Sivan, Vasilis Syrgkanis Truthful Multi-parameter Auctions with Online Supply: an Impossible Combination 28th ACM-SIAM Symposium on Discrete Algorithms, SODA, January 2018
- 33. Robert Chen, Brendan Lucier, Yaron Singer, Vasilis Syrgkanis Robust Optimization with Non-Convex Objectives
 31st Annual Conference on Neural Information Processing Systems, NeurIPS17, December 2017 Oral Presentation
- 32. Vasilis Syrgkanis

A Sample Complexity Measure with Applications to Learning Optimal Auctions 31st Annual Conference on Neural Information Processing Systems, NeurIPS17, December 2017

- Darrell Hoy, Denis Nekipelov, Vasilis Syrgkanis Welfare Guarantees from Data
 31st Annual Conference on Neural Information Processing Systems, NeurIPS17, December 2017
- Miro Dudik, Nika Haghtalab, Robert E. Schapire, Vasilis Syrgkanis, Jennifer Wortman Vaughan Oracle Efficient Learning and Auction Design

58th Annual IEEE Symposium on Foundations of Computer Science, FOCS, October 2017

Full version at the Journal of the ACM, October 2020

- 29. Constantinos Daskalakis, Vasilis Syrgkanis Learning in Auctions: Regret is Hard, Envy is Easy
 57th Annual IEEE Symposium on Foundations of Computer Science, FOCS, October 2016
 Full version at Games and Economic Behavior, 2022
- Vasilis Syrgkanis, Haipeng Luo, Akshay Krishnamurthy, Robert E. Schapire Improved Regret Bounds for Oracle-Based Adversarial Contextual Learning 30th Annual Conference on Neural Information Processing Systems, NeurIPS16, December 2016
- 27. Yishay Mansour, Aleksandrs Slivkins, Vasilis Syrgkanis, Steven Wu Bayesian Exploration: Incentivizing Exploration in Bayesian Games
 17th ACM Conference on Economics and Computation, EC, July 2016
 Full version in Operations Research, December 2021
- 26. Vasilis Syrgkanis, Akshay Krishnamurthy, Robert E. Schapire Efficient Algorithms for Adversarial Contextual Learning 33rd International Conference on Machine Learning, ICML, June 2016 Preliminary version at 10th Annual Machine Learning Symposium, New York Academy of Sciences, March 2016, Best spotlight talk award
- David M. Pennock, Vasilis Syrgkanis, Jennifer Wortman Vaughan Bounded Rationality in Wagering Mechanisms
 2016 Conference on Uncertainty in Artificial Intelligence, UAI, June 2016
- Michal Feldman, Nicole Immorlica, Brendan Lucier, Tim Roughgarden, Vasilis Syrgkanis The Price of Anarchy in Large Games 48th ACM Symposium on Theory of Computing, STOC, June 2016
- Thodoris Lykouris, Vasilis Syrgkanis, Éva Tardos Learning and Efficiency in Games with Dynamic Population
 26th ACM-SIAM Symposium on Discrete Algorithms, SODA, January 2016
- 22. Vasilis Syrgkanis, Alekh Agarwal, Haipeng Luo, Robert E. Schapire Fast Convergence of Regularized Learning in Games
 29th Annual Conference on Neural Information Processing Systems, NeurIPS15, December 2015
 Best paper award
- Jason Hartline, Vasilis Syrgkanis, Éva Tardos No-Regret Learning in Bayesian Games
 29th Annual Conference on Neural Information Processing Systems, NeurIPS15, December 2015
- 20. Denis Nekipelov, Vasilis Syrgkanis, Éva Tardos Econometrics for Learning Agents
 16th ACM Conference on Economics and Computation, EC, June 2015 Best paper award
- Vasilis Syrgkanis, David Kempe, Éva Tardos Information Asymmetries in Common Value Auctions with Discrete Signals 16th ACM Conference on Economics and Computation, EC, June 2015 Full version accepted at Mathematics of Operations Research, July 2019

- Nikhil Devanur, Jamie Morgenstern, Vasilis Syrgkanis, Matt Weinberg Simple Auctions with Simple Strategies
 16th ACM Conference on Economics and Computation, EC, June 2015
- Brendan Lucier, Vasilis Syrgkanis Greedy Algorithms make Efficient Mechanisms
 16th ACM Conference on Economics and Computation, EC, June 2015
- 16. Yishay Mansour, Alex Slivkins, Vasilis Syrgkanis Bayesian Incentive-Compatible Bandit Exploration
 16th ACM Conference on Economics and Computation, EC, June 2015 Full version accepted at Operations Research, July 2020
- 15. Nicole Immorlica, Greg Stoddard, Vasilis Syrgkanis Social Status and Badge Design
 25th World Wide Web Conference, WWW, May 2015 Preliminary versions at the NBER Market Design Working Group Meeting 2013, NeurIPS'13 Workshop on Crowdsourcing, EC'14 Workshop on Social Computing and User Generated Content
- Michal Feldman, Uriel Feige, Nicole Immorlica, Rani Izsak, Brendan Lucier, Vasilis Syrgkanis A Unifying Hierarchy of Valuations with Complements and Substitutes
 29th AAAI Conference on Artificial Intelligence, AAAI, January 2015
- Yoram Bachrach, Vasilis Syrgkanis, Éva Tardos, Milan Vojnović Strong Price of Anarchy, Utility Games and Coalitional Dynamics 7th International Symposium on Algorithmic Game Theory, SAGT, September 2014
- Vasilis Syrgkanis, Eva Tardos *Composable and Efficient Mechanisms* 45th ACM Symposium on the Theory of Computing, STOC, June 2013
- Hu Fu, Brendan Lucier, Balasubramanian Sivan, Vasilis Syrgkanis Cost-Recovering Bayesian Algorithmic Mechanism Design 14th ACM Conference on Electronic Commerce, EC, June 2013
- Balasubramanian Sivan, Vasilis Syrgkanis Vickrey Auctions for Irregular Distributions
 9th Conference on Web and Internet Economics, WINE, December 2013
- Michal Feldman, Brendan Lucier, Vasilis Syrgkanis Limits of Efficiency in Sequential Auctions
 9th Conference on Web and Internet Economics, WINE, December 2013
- Brendan Lucier, Yaron Singer, Vasilis Syrgkanis, Éva Tardos Equilibrium in Combinatorial Public Projects
 9th Conference on Web and Internet Economics, WINE, December 2013
- Yoram Bachrach, Vasilis Syrgkanis, Milan Vojnović Incentives and Efficiency in Uncertain Collaborative Environments 9th Conference on Web and Internet Economics, WINE, December 2013
- Vasilis Syrgkanis Bayesian Games and the Smoothness Framework arXiv:1203.5155 March 2012

| | 5. | Vasilis Syrgkanis, Éva Tardos Bayesian Sequential Auctions 13th ACM Conference on Electronic Commerce, EC , June 2012 |
|----------------|-----|--|
| | 4. | Renato Paes Leme, Vasilis Syrgkanis, Éva Tardos Sequential Auctions and Externalities 23rd ACM Symposium on Discrete Algorithms, SODA , January 2012 |
| | 3. | Renato Paes Leme, Vasilis Syrgkanis, Éva Tardos The Curse of Simultaneity 3rd ACM Conf. on Innovations in Theoretical Computer Science, ITCS, January 2012 |
| | 2. | Balasubramanian Sivan, Vasilis Syrgkanis, Omer Tamuz Lower Bounds on Revenue of Approximately Optimal Auctions 8th Workshop on Internet & Network Economics, WINE, December 2012 |
| | 1. | Vasilis Syrgkanis The Complexity of Equilibria in Cost Sharing Games Sixth Workshop on Internet & Network Economics, WINE, December 2010 |
| Working Papers | 24. | Hui Lan, Haoge Chang, Eleanor Dillon, Vasilis Syrgkanis A Meta-learner for Heterogeneous Effects in Difference-in-Differences Preprint available on Arxiv, Feb 2025 |
| | 23. | Victor Chernozhukov, Whitney K. Newey, Vasilis Syrgkanis Conditional Influence Functions Preprint available on Arxiv, Dec 2024 |
| | 22. | Hyunji Nam, Allen Nie, Ge Gao, Vasilis Syrgkanis, Emma Brunskill Predicting Long Term Sequential Policy Value Using Softer Surrogates Preprint available on Arxiv, Dec 2024 |
| | 21. | Zhaomeng Chen, Junting Duan, Victor Chernozhukov, Vasilis Syrgkanis Automatic Doubly Robust Forests Preprint available on Arxiv, Dec 2024 |
| | 20. | Yifan Wu, Ramesh Johari, Vasilis Syrgkanis, Gabriel Y. Weintraub Switchback Price Experiments with Forward-Looking Demand Preprint available on Arxiv, Oct 2024 |
| | 19. | Allison Lau, Younwoo Choi, Vahid Balazadeh, Keertana Chidambaram, Vasilis Syrgkanis, Rahul G. Krishnan <i>Personalized Adaptation via In-Context Preference Learning</i> Preprint available on Arxiv, Oct 2024 |
| | 18. | Justin Whitehouse, Christopher Jung, Vasilis Syrgkanis, Bryan Wilder, Zhiwei Steven Wu Orthogonal Causal Calibration Preprint available on Arxiv, June 2024 |
| | 17. | Keertana Chidambaram, Karthik Vinay Seetharaman, Vasilis Syrgkanis Direct Preference Optimization With Unobserved Preference Heterogeneity Preprint available on Arxiv, May 2024 |
| | 16. | C. Jung, J. Hastings, C. Gates Peale, V. Syrgkanis Taking a Moment for Distributional Robustness Preprint available on Arxiv, May 2024 |

- David M. Ritzwoller, Vasilis Syrgkanis Simultaneous Inference for Local Structural Parameters with Random Forests Preprint available on Arxiv, May 2024
- Vasilis Syrgkanis, Ruohan Zhan *Post Reinforcement Learning Inference* Preprint available on Arxiv, May 2024 Revise and Resubmit at **Operations Research**
- Ravi B. Sojitra, Vasilis Syrgkanis Dynamic Local Average Treatment Effects Preprint available on Arxiv, May 2024
- Z. Li, H. Lan, V. Syrgkanis, M. Wang, M. Uehara Regularized DeepIV with Model Selection Preprint available on Arxiv, Mar 2024
- Jikai Jin, Vasilis Syrgkanis Structure Agnostic Optimality of Doubly Robust Learning for Treatment Effect Estimation Preprint available on Arixv, Feb 2024
- Daniel Ngo, Keegan Harris, Anish Agarwal, Vasilis Syrgkanis, Zhiwei Steven Wu Incentive-Aware Synthetic Control: Accurate Counterfactual Estimation via Incentivized Exploration Preprint available on Arxiv, Dec 2023
- Victor Chernozhukov, Michael Newey, Whitney K Newey, Rahul Singh, Vasilis Srygkanis Automatic Debiased Machine Learning for Covariate Shifts Preprint available on Arxiv, July 2023
- A. Bennett, N. Kallus, X. Mao, N. Whitney, V. Syrgkanis, M. Uehara Source Condition Double Robust Inference on Functionals of Inverse Problems Preprint available on Arxiv, July 2023 Revise and Resubmit at **JRSS-B**
- Qizhao Chen, Morgane Austern, Vasilis Syrgkanis *Inference on Optimal Dynamic Policies via Softmax Approximation* Preprint available on Arxiv, March 2023
- 6. Victor Chernozhukov, Whitney Newey, Rahul Singh, Vasilis Syrgkanis Automatic Debiased Machine Learning for Dynamic Treatment Effects Preprint available on Arxiv, March 2022
- Anish Agarwal, Vasilis Syrgkanis Synthetic Blip Effects: Generalizing Synthetic Controls for the Dynamic Treatment Regime Preprint available on Arxiv, October 2022
- 4. V. Chernozhukov, C. Cinelli, W. Newey, A. Sharma, V. Syrgkanis Long Story Short: Omitted Variable Bias in Machine Learned Causal Models Preprint available on Arxiv, December 2021 Revise and Resubmit at Review of Economics and Statistics
- V. Chernozhukov, W. K. Newey, V. Quintas-Martinez, V. Syrgkanis Automatic Debiased Machine Learning via Riesz Regression Preprint available on Arxiv, April 2021

| | Victor Chernozhukov, Whitney Newey, Rahul Singh, Vasilis Syrgkanis Adversarial Estimation of Riesz Representers Preprint available on Arxiv, December 2020 Revise and Resubmit at Journal of the American Statistical Association |
|-----------------------------------|---|
| | Vasilis Syrgkanis, Elie Tamer, Juba Ziani Inference on Auctions with Weak Assumptions on Information Preprint available on Arxiv, May 2021 |
| Surveys and Books | 5. Vasilis Syrgkanis Foundations of Causal Machine Learning In preparation |
| | Victor Chernozhukov, Christian Hansen, Nathan Kallus, Martin Spindler, Vasilis Syrgkanis Applied Causal Inference Powered by ML and AI Available Online, February 2024 |
| | Tim Roughgarden, Vasilis Syrgkanis, Éva Tardos <i>Price of Anarchy in Auctions</i> Journal of Artificial Intelligence Research, May 2017 |
| | 2. Vasilis Syrgkanis Algorithmic Game Theory and Econometrics SIGecom Exchanges, June 2015 |
| | Renato Paes Leme, Vasilis Syrgkanis, Éva Tardos The Dining Bidder Problem: a la russe et a la francaise SIGecom Exchanges, December 2012 |
| Tutorials | <i>Econometrics and Machine Learning,</i> Invited short course at Greek Stochastics Summer Workshop 2022, Corfu, Greece |
| | Causal Inference and Machine Learning in Practice with EconML and CausalML: Indus- trial Use Cases at Microsoft, TripAdvisor, Uber, Tutorial at Conference on Knowledge Discovery and Data Mining, KDD 2021 |
| | $Causal \ Inference \ and \ Machine \ Learning,$ Workshop on Algorithms, Learning and Economics, July 2019 |
| | Game Theoretic Challenges and Opportunities in Deep Learning, 19th ACM Conference on Economics and Computation (EC 2019), Phoenix, July 2019 (with Yaron Singer) |
| | Algorithmic Game Theory and Data Science, 16th ACM Conference on Economics and Computation (EC 2016), Maastricht, July 2016 (with Jamie Morgenstern) |
| | Price of Anarchy in Auctions, 9th Conference on Web and Internet Economics (WINE), Harvard University, December 2013 (with Jason Hartline) |
| Selected Invited Presentations | Keynote at European Causal Inference Meeting (EuroCIM), April 2025 Online Causal Inference Seminar, March 2025 U. Chicago Econometrics Seminar, November 2024 Keynote at National Association of Business Economics, Tech Economics Conference, October 2024 |

- Banff Workshop on New Directions in Machine Learning Theory, October 2024
- UW Statistics Seminar, October 2024
- Columbia, IEOR Seminar, October 2024
- Stanford Data Science Conference, Stanford, May 2024
- META Research Seminar, February 2024
- TOCA-Silicon Valley Day, November 2023
- Stanford HAI Executive Breakfast, October 2023
- Stochastics and Statistics Seminar, MIT, September 2023
- Uber Research Seminar, August 2023
- Machine Learning in Economics Summer Institute, U. Chicago, August 2023
- HIAS Workshop on AI: Frontiers and Interfaces, July 2023
- ACM FCRC Tutorial on Causal Inference for Engineers, June 2023
- **Keynote** at Experimentation and Causal Inference in the Tech Sector, Stanford, June 2023
- LMU Munich AI Keynote Series, May 2023
- Operations, Information and Techology Seminar, Stanford, May 2023
- Cowles Foundation Econometrics Fellow, Yale, March 2023
- Stanford Information Systems Lab Colloquium, February 2023
- Upenn Econometrics Seminar, November 2022
- Stanford Econometrics Seminar, October 2022
- UW Business School, Information Systems and Operations Management Department, October 2022
- CMU Department of Statistics and Data Science, October 2022
- Panelist Let-All's 4th Mentoring workshop, October 2022
- IBM/DIMACS Workshop on Bridging Game Theory and Machine Learning for Multiparty Decision Making, October 2022
- Online Causal Inference Seminar, September 2022
- U. Chicago, The Griffin Applied Economics Incubator Conference on Machine Learning Across Disciplines: New Theoretical Developments, June 2022
- First Conference on Interactive Causal Inference, June 2022
- RCEA Big Data and Machine Learning Conference, May 2022
- U. of Michigan Econometrics Seminar, April 2022
- Panel on Machine Learning in Social Systems: Challenges and Opportunities from Program Evaluation (with Jennifer Hill and Guido Imbens), NeurIPS 2021 Workshop on Econometrics meets Machine Learning, Dec. 2021
- Netflix Research Seminar (Algorithm + Data Science Engineering), November 2021
- Columbia Statistics Seminar, November 2021
- Online Seminars on Mathematical Foundations of Data Science, November 2021
- Google X Seminar, August 2021
- Montreal Machine Learning and Optimization (MTL MLOpt) Seminar, May 2021
- Cornell AI Seminar, May 2021
- World Congress of the Econometric Society, *Panel on AI/ML for Empirical Research in Economics* (with Esther Duflo and Guido Imbens), August 2020
- AEA meetings, KAEA session on Machine Learning and Its Applications to Econometrics, January 2020
- Boston University Econometrics seminar, November 2019
- Symposium on Algorithmic Game Theory invited talk, October 2019
- Workshop on Machine Learning and User Decision Making, May 2019
- MIT/Harvard Econometrics seminar, April 2019
- Harvard EconCS seminar, March 2019
- UT Austin, Econometrics/IO seminar, March 2019
- AEA meetings, session on Machine Learning and Shrinkage Estimation, January 2019
- Columbia University, DRO seminar series, November 2018
- 17th Conference on Research on Economic Theory and Econometrics, July 2018

| - UCL Machine Learning and Econometrics Workshop, June 2018 |
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| - STOC 2017, Semi-Plenary talk, June 2017 |
| - Simons Symposium on New Directions in Approximation Algorithms, April 2017 |
| - MIT EECS, Theory Colloquium, February 2017 |
| - Cornell CS, three lecture mini-series, January 2017 |
| - Columbia University, Economic Theory seminar, November 2016 |
| - UIUC, CS Colloquium, March 2016 |
| - Duke University, CS Colloquium, March 2016 |
| - Northwestern University, CS Colloquium, March 2016 |
| - Caltech CMS, Frontiers Workshop, March 2016 |
| - UMass Amherst, CS Colloquium, March 2016 |
| - Google Research, NYC, March 2016 |
| - Columbia University, CS Colloquium, February 2016 |
| - MIT, EECS/IDSS Special Seminar, February 2016 |
| - Microsoft Research, New England, Colloquium, February 2016 |
| - EPFL, IC Colloquium, February 2016 |
| - Institute of Science and Technology (IST) Austria, CS Colloquium, January 2016 |
| - CS Theory Seminar, Stanford, October 2016 |
| - Economics Seminar, Stanford Graduate School of Business, October 2016 |
| - Caltech, Workshop on Information and Social Economics, August 2016 |
| - Simons Center Seminar on "Simplicity and Complexity in Economics", October 2015 |
| - Google Theory Seminar, September 2015 |
| - MSR Economics Seminar, August 2015 |
| - University of Pennsylvania, CS Theory Seminar, May 2015 |
| - University of Washington, CS Theory Seminar, March 2015 |
| - MSR Redmond, Theory lunch, March 2015 |
| - Northwestern University, CS Colloquium, April 2014 |
| - MSR Redmond, Theory group, March 2014 |
| - MSR NYC, February 2014 |
| - NBER Market Design Working Group, October 2013 |
| - Harvard University, EconCS Seminar, September 2013 |
| - MSR New England, Game Theory and Computation Seminar, August 2013 |
| - Dagstuhl Seminar on the Interface of Computation, Game Theory, and Economics, |
| April 2013 Northwastern University Theory Seminar December 2012 |
| - Northwestern University, Theory Seminar, December 2012 |
| PhD Students: |
| - Jiyuan Tan (MS&E, Stanford, 2024 - present) |
| - Jikai Jin (ICME, Stanford, 2023 - present) |
| - Hui Lan (ICME, Stanford, 2023 - present) |
| - Keertana Veeramony Chidambaram (MS&E, Stanford, 2023 - present) |
| - Ravi Sojitra (co-advised with Guido Imbens) (MS&E, Stanford, 2023 - present) |
| PhD Rotation Students: |
| - Ayush Sawarni (MS&E, Stanford, 2024 - present) |
| - Shiangyi Lin (ICME, Stanford, 2024 - present) |
| - Chenghan Xie (MS&E, Stanford, 2024 - present) |
| Undergraduate Students: |
| - Pinlin (Calvin) Xu, (CS, Stanford, Jan'24-present) |
| - Saanvi Chawla, (CS, Stanford, Sept'24-present) |
| - Nicole Nouchee Yang, (MS&E, Stanford, Oct'22-Jun'23) |
| - Jacob Stavrianos, (Mathematics and CS, Stanford, Sept'23-present) |
| - Karthik Vinay Seetharaman, (Mathematics, Stanford, Feb'24-present) |
| Microsoft Research Interns: |
| - Matthew O'Keefe (2021) (co-mentored with Markus Mobiuus and Brendan Lucier) |

Mentoring

| | Dhruv Rohatgi (2021) Anish Agarwal (2021) Rahul Singh (2020) Gali Noti (2019) Michael Celentano (2019) (co-mentored with Greg Lewis) Emmanouil Zampetakis (2019) Dylan Foster (2018) Mert Demirer (2018) (co-mentored with Greg Lewis) Nishanth Dikkala (2018) (co-mentored with Greg Lewis and Lester Mackey) Khashayar Khosravi (2018) (co-mentored with Greg Lewis) Gautam Kamath (2017) (co-mentored with Brendan Lucier and Nicole Immorlica) Jieming Mao (2017) (co-mentored with Brendan Lucier and Nicole Immorlica) Jonas Mueller (2017) (co-mentored with Matt Taddy) Yichen Wang (2017) |
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| TEACHING | Winter 2025: Applied Causal Inference Powered by Machine Learning and AI (Stanford, MS&E228) Fall 2024: Foundations of Causal Machine Learning (Stanford, MS&E328/CS328) Spring 2024: Game Theory, Data Science and AI (Stanford, MS&E233) Winter 2024: Applied Causal Inference Powered by Machine Learning and AI (Stanford, MS&E228/CS288) |
| | Fall 2023: Foundations of Causal Machine Learning (Stanford, MS&E328/CS328) Spring 2023: Foundations of Causal Machine Learning (Stanford, MS&E328/CS328) Winter 2023: Applied Causal Inference Powered by Machine Learning and AI (Stanford, MS&E228) Spring 2021: Algorithmic Game Theory and Data Science, co-instructor and co-developer of graduate MIT EECS course, with Constantinos Daskalakis Spring 2019: Algorithmic Game Theory and Data Science, co-instructor and co-developer of graduate MIT EECS course, with Constantinos Daskalakis Spring 2017: Algorithmic Game Theory and Data Science, co-instructor and co-developer of graduate MIT EECS course, with Constantinos Daskalakis Spring 2017: Algorithmic Game Theory and Data Science, co-instructor and co-developer of graduate MIT EECS course, with Constantinos Daskalakis Spring 2017: Algorithmic Game Theory and Data Science, co-instructor and co-developer of graduate MIT EECS course, with Constantinos Daskalakis Spring 2017: Algorithmic Game Theory and Data Science, co-instructor and co-developer of graduate MIT EECS course, with Constantinos Daskalakis June 2015: MSR NYC summer school in Data Science |
| Professional Service | Associate Editor: Econometrica (2022-2025), Operations Research (2024) Senior Program Committee, Senior Area Chair: ICML 2024, EC 2024, EC 2025 (Local Chair), ICML 2025 Area Chair: ACM EC 2017, ICLR 2020, ACM EC 2020, NeurIPS 2020, COLT 2020, ICLR 2021, NeurIPS 2021, ACM EC 2021, UAI 2021, COLT 2021, AAAI 2021, UAI 2022, ICALP 2022, NeurIPS 2022, ICLR 2022, ICLR 2023, Clear 2023, EC 2023, ICML 2023, ICLR 2024, NeurIPS 2024 Program Committee: ACM EC 2013, AdAuctions 2014, ACM EC 2015, IJCAI 2015, WINE 2015, AdAuctions 2015, AAAI 2015 workshop on AI For Cities, ICML 2016, ACM EC 2016, NeurIPS 2016, EC 2016 Workshop on Algorithmic Game Theory and Data Science, AdAuctions 2016, WINE 2016, HCOMP 2016, SAGT 2017, NeurIPS 2017, ALT 2018, ICLR 2019, ALT 2019, COLT 2019, WINE 2020, COLT 2022 Journal Reviewer: Journal of the ACM, SIAM Journal on Computing, ACM Transactions on Economics and Computation, Econometrica |
| UNIVERSITY SERVICE | 2023-2024: Data Science and Statistics Faculty Search Committee 2024-present: Research Experience for Undergraduates (REU) Faculty Coordinator 2022-2023: Data Science and Engineering Faculty Search Committee 2022-2023: MS&E PhD Admissions Committee |

| Industry Experience | 2024-present: Amazon Visiting Academic, Personalization | | |
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| Activities | 2024-present: The SDG Digital Transformation and Sustainability Solutions Lab, Faculty Advisory Board 2023: Organizing committee of Stanford Conference on AI for Operations and Operations for AI Conference 2021: Organizing committee chair of Simons Semester on Learning and Games, Spring 2022 2021: Organizing committee of Simons Semester on Causality, Spring 2022 2021: Organizing committee of Causal ML track at Microsoft Research Summit 2021 2019-Present: Lead designer and core contributor to open source library EconML for the estimation of heterogeneous treatment effects with Machine Learning 2018: Organizing committee of 3rd Cambridge Area Economics and Computation Day 2017: Organizing committee of NeurIPS17 Workshop on Learning in the Presence of Strategic Behavior 2017: Organizing committee of 3rd Workshop on Algorithmic Game Theory and Data Science, EC 2017 2016: Organizing committee of 2nd Workshop on Algorithmic Game Theory and Data Science, EC 2016 December 2008 - July 2009: Chair of the IEEE NTUA Student Branch 2008: Member of the Organizing Committee of the 2nd Panhellenic Conference of ECE Students (attended by more than 1200 students from all ECE departments of Greece) | | |
| References | Éva Tardos Professor Computer Science Cornell University eva@cs.cornell.edu Victor Chernozhukov Professor Economics MIT vchern@mit.edu Yishay Mansour Professor Computer Science Tel Aviv University | Robert Schapire Partner Researcher Microsoft Research New York schapire@microsoft.com Constantinos Daskalakis Professor EECS MIT costis@csail.mit.edu Whitney K. Newey Professor Economics MIT | |

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