Daniel Schoepflin

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Research

My primary research interests are algorithmic game theory, mechanism design, and approximation algorithms.

Employment History

Rutgers University - DIMACS — Piscataway, NJ
Simons Postdoctoral Leadership Fellow — *Current*

Simons Laufer Mathematical Sciences Institute (previously MSRI) — Berkeley, CA
Postdoctoral Fellow — *Aug. 2023 - Dec. 2023*

Google — Mountain View, CA
Research Intern — *June 2022 – Sept. 2022*

Smart Information Flow Technologies — Minneapolis, MN
Research Intern — *Sept. 2015 – Mar. 2016*

Oracle — Bala Cynwyd, PA
Software Engineering Intern — *Sept. 2014 – Mar. 2015*

Susquehanna International Group, LLP — Bala Cynwyd, PA
Software Engineering Intern — *Sept. 2013 – Mar. 2014*

Education

Drexel University — Philadelphia, PA
Ph.D. in Computer Science; Advisor: Vasilis Gkatzelis — *Sept. 2017 – Aug. 2023*

Drexel University — Philadelphia, PA
B.S. in Electrical Engineering, B.S. in Computer Engineering — *Sept. 2012 – Jun. 2017*

Conference Publications (authors listed alphabetically unless otherwise noted)

Algorithmic Collusion at Inference Time: A Meta-game Design and Evaluation
Yuhong Luo, Daniel Schoepflin, Xintong Wang
25th International Conference on Autonomous Agents and Multiagent Systems *(AAMAS 2026)*

Algorithmic and Structural Complexities of Menus in Unit-Demand Auctions
Daniel Schoepflin, Clayton Thomas, Matthew Weinberg
21st Conference on Web and Internet Economics *(WINE 2025)*

Strategyproof Tournament Rules for Teams with a Constant Degree of Selfishness
David Pennock, Daniel Schoepflin, Kangning Wang
21st Conference on Web and Internet Economics *(WINE 2025)*

A Truthful and Accurate Forecasting Competition Mechanism on Bayesian Network Structured Events
Chun Lau, Daniel Schoepflin, David Pennock (By Contrib.)
18th International Symposium on Algorithmic Game Theory *(SAGT 2025)*

Optimal Mechanisms for Consumer Surplus Maximization
Tomer Ezra, Daniel Schoepflin, Ariel Shaulker
57th Annual ACM Symposium on Theory of Computing *(STOC 2025)*

On the Power of Randomization for Obviously Strategyproof Mechanisms
Shiri Ron, Daniel Schoepflin
39th Annual AAAI Conference on Artificial Intelligence *(AAAI 2025)*

Clock Auctions Augmented with Unreliable Advice
Vasilis Gkatzelis, Daniel Schoepflin, Xizhi Tan
36th ACM-SIAM Symposium on Discrete Algorithms *(SODA 2025)*

Bayesian and Randomized Clock Auctions
Michal Feldman, Nick Gravin, Vasilis Gkatzelis, Daniel Schoepflin
23rd ACM Conference on Economics and Computation *(EC 2022)*

Beyond Cake Cutting: Allocating Homogeneous Divisible Resources
Ioannis Caragiannis, Alexandros Psomas, Vasilis Gkatzelis, Daniel Schoepflin
21st International Conference on Autonomous Agents and Multi-Agent Systems *(AAMAS 2022)*

Optimal Deterministic Clock Auctions and Beyond
George Christodoulou, Vasilis Gkatzelis, Daniel Schoepflin
13th Innovations in Theoretical Computer Science Conference *(ITCS 2022)*

Deterministic Budget Feasible Clock Auctions
Eric Balkanski, Pranav Garimidi, Vasilis Gkatzelis, Daniel Schoepflin, Xizhi Tan
33rd ACM-SIAM Symposium on Discrete Algorithms *(SODA 2022)*

Prior-free Clock Auctions for Bidders with Interdependent Valuations
Vasilis Gkatzelis, Rishi Patel, Emmanouil Pountourakis, Daniel Schoepflin
14th International Symposium on Algorithmic Game Theory *(SAGT 2021)*

PROPm Allocations of Indivisible Goods to Multiple Agents
Artem Baklanov, Pranav Garimidi, Vasilis Gkatzelis, Daniel Schoepflin
30th International Joint Conference on Artificial Intelligence *(IJCAI 2021)*

Achieving Proportionality up to the Maximin Item with Indivisible Goods
Artem Baklanov, Pranav Garimidi, Vasilis Gkatzelis, Daniel Schoepflin
35th AAAI Conference on Artificial Intelligence *(AAAI 2021)*

Journal Publications

Bayesian and Randomized Clock Auctions
Michal Feldman, Nick Gravin, Vasilis Gkatzelis, Daniel Schoepflin
Operations Research *(July-August 2025)*

Deterministic Budget Feasible Clock Auctions
Eric Balkanski, Pranav Garimidi, Vasilis Gkatzelis, Daniel Schoepflin, Xizhi Tan
Operations Research *(November-December 2025)*

Working Papers

Some Conditions when Experts Algorithms are Incentive Compatible in the Large
Chun Lau, David Pennock, Daniel Schoepflin
Working Paper

Teaching

Professor - CS 205: Introduction to Discrete Structures I, Rutgers University, *Fall 2024, Spring 2025*

Professor - CS 618: Algorithmic Game Theory, Drexel University, *Spring 2023*

TA - New Horizons in Theoretical Computer Science Summer School, *Summer 2021*

TA - CS 521: Data Structures and Algorithms I (Graduate), Drexel University, *Fall 2020, 2021*

TA - CS 457: Data Structures and Algorithms I (Undergraduate), Drexel University, *Fall 2017, 2018, 2019*

Awards

Outstanding Dissertation Award
Drexel University, *2023*

Jay Modi Memorial Award
Drexel University Department of Computer Science, *2022*

Student Leadership Award
Drexel University Department of Computer Science, *2021*

PhD Research Excellence Award
Drexel College of Computing and Informatics, *2021*

Teaching Excellence Award
Drexel College of Computing and Informatics, *2020*

Werner Krandick Teaching Assistant Award
Drexel University Department of Computer Science, *2019*

Service

Program Committee

- ACM Conference on Economics and Computation (EC), 2023, 2024, 2025
- Conference on Web and Internet Economics (WINE), 2023, 2024, 2025
- International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2025
- International Joint Conference on Artificial Intelligence (IJCAI), 2025
- AAAI Conference on Artificial Intelligence (AAAI), 2025
- ACM Web Conference (WebConf), 2024, 2025
- Symposium on Algorithmic Game Theory (SAGT), 2024, 2025

Reviewer (Journals)

- Theoretical Computer Science (TCS)
- Operations Research Letters (ORL)
- Autonomous Agents and Multi-Agent Systems (IFAAMAS)
- Artificial Intelligence (AIJ)
- Journal of Economic Theory (JET)
- Operations Research (OR)
- ACM Transactions on Economics and Computation (TEAC)
- Journal of Artificial Intelligence Research (JAIR)
- SIAM Journal on Discrete Mathematics (SIDMA)

Subreviewer (Conferences)

- IARCS Foundations of Software Technology and Theoretical Computer Science (FSTTCS), 2025
- IEEE Symposium on Foundations of Computer Science (FOCS), 2025
- ACM Symposium on Theory of Computing (STOC), 2024, 2025
- ACM Web Conference (WebConf), 2023
- International Symposium on Algorithms and Computation (ISAAC), 2022
- European Symposia on Algorithms (ESA), 2022
- ACM-SIAM Symposium on Discrete Algorithms (SODA), 2022-2025

- Conference on Web and Internet Economics (WINE), 2019, 2021
- International Colloquium on Automata, Languages, and Programming (ICALP), 2021
- ACM Conference on Economics and Computation (EC), 2021
- Innovations in Theoretical Computer Science (ITCS), 2024, 2025

Organization

- Tutorials Chair - 21st Conference on Web and Internet Economics (WINE 2025)

Leadership

Drexel CCI Doctoral Student Association
President, *2020-2021*
Member At Large, *2019-2020*