

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
<i>Simons Postdoctoral Leadership Fellow</i>	<i>Current</i>
Simons Laufer Mathematical Sciences Institute (previously MSRI)	Berkeley, CA
<i>Postdoctoral Fellow</i>	<i>Aug. 2023 - Dec. 2023</i>
Google	Mountain View, CA
<i>Research Intern</i>	<i>June 2022 - Sept. 2022</i>
Smart Information Flow Technologies	Minneapolis, MN
<i>Research Intern</i>	<i>Sept. 2015 - Mar. 2016</i>
Oracle	Bala Cynwyd, PA
<i>Software Engineering Intern</i>	<i>Sept. 2014 - Mar. 2015</i>
Susquehanna International Group, LLP	Bala Cynwyd, PA
<i>Software Engineering Intern</i>	<i>Sept. 2013 - Mar. 2014</i>

EDUCATION

Drexel University	Philadelphia, PA
<i>Ph.D. in Computer Science; Advisor: Vasilis Gkatzelis</i>	<i>Sept. 2017 - Aug. 2023</i>
Drexel University	Philadelphia, PA
<i>B.S. in Electrical Engineering, B.S. in Computer Engineering</i>	<i>Sept. 2012 - Jun. 2017</i>

CONFERENCE PUBLICATIONS (AUTHORS LISTED ALPHABETICALLY UNLESS OTHERWISE NOTED)

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 (*Forthcoming*)

WORKING PAPERS

Algorithmic Collusion at Inference Time: A Meta-game Design and Evaluation

Yuhong Luo, Daniel Schoepflin, Xintong Wang

Under Submission

Some Conditions when Experts Algorithms are Incentive Compatible in the Large

Chun Lau, David Pennock, Daniel Schoepflin

Under Submission

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*