

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

EDUCATION

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

CONFERENCE PUBLICATIONS (AUTHORS LISTED ALPHABETICALLY UNLESS OTHERWISE NOTED)

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 (*Forthcoming*)

Deterministic Budget Feasible Clock Auctions

Eric Balkanski, Pranav Garimidi, Vasilis Gkatzelis, Daniel Schoepflin, Xizhi Tan

Operations Research (*Forthcoming*)

WORKING PAPERS & PAPERS UNDER SUBMISSION

Strategyproofness-Exposing Unit Demand Auctions

Daniel Schoepflin, Clayton Thomas, Matthew Weinberg

Under Submission

Strategyproof Tournament Rules for Teams with a Constant Degree of Selfishness

David Pennock, Daniel Schoepflin, Kangning Wang

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
- Autonomous Agents and Multi-Agent Systems
- Artificial Intelligence
- Journal of Economic Theory (JET)
- Operations Research
- ACM Transactions on Economics and Computation (TEAC)
- Journal of Artificial Intelligence Research (JAIR)
- SIAM Journal on Discrete Mathematics (SIDMA)

Subreviewer (Conferences)

- 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

LEADERSHIP

Drexel CCI Doctoral Student Association

President, *2020-2021*

Member At Large, *2019-2020*