

# Daniel Schoepflin

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## RESEARCH

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

## EMPLOYMENT HISTORY

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

## EDUCATION

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<b>Drexel University</b> <i>Ph.D. in Computer Science; Advisor: Vasilis Gkatzelis</i>	Philadelphia, PA <i>Sept. 2017 - Aug. 2023</i>
<b>Drexel University</b> <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)

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### **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**

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### **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*)

## **TEACHING**

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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**

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### **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*

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**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)

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**LEADERSHIP****Drexel CCI Doctoral Student Association**

President, *2020-2021*

Member At Large, *2019-2020*