
Education and Employment

- 2023–2025 **Postdoctoral Researcher**, *Microsoft Research (New England), Economics and Computation Group*
- 2018–2023 **Ph.D. & M.S. in Computer Science**, *Princeton University*, GPA: 3.95
- 2014–2017 **B.S. in Mathematics & in Computer Science**, *Purdue University*, GPA: 4.00

Papers

- [1] Yannai Gonczarowski, Ori Heffetz, and Clayton Thomas. “Strategyproofness-Exposing Descriptions of Matching Mechanisms”. *Reject and Resubmit at the American Economic Review*. New version of “Strategyproofness-Exposing Mechanism Descriptions” (below). 2024. URL: <https://clathomasprime.github.io/papers/SeDoMM.pdf>.
- [2] Aadityan Ganesh, Clayton Thomas, and S. Matthew Weinberg. “Revisiting the Primitives of Transaction Fee Mechanism Design”. In: *Proceedings of the 25th ACM Conference on Economics and Computation (EC)*. 2024. URL: <https://arxiv.org/abs/2409.18166>.
- [3] Yannai Gonczarowski and Clayton Thomas. “Structural Complexities of Matching Mechanisms”. In: *Proceedings of the 56th Annual ACM SIGACT Symposium on Theory of Computing (STOC)*. 2024. URL: <https://arxiv.org/abs/2212.08709>.
- [4] Yannai A. Gonczarowski, Ori Heffetz, Guy Ishai, and Clayton Thomas. “Describing Deferred Acceptance and Strategyproofness to Participants: Experimental Analysis”. In: *Proceedings of the 25rd ACM Conference on Economics and Computation (EC)*. In Review at *Econometrica*. 2024. URL: <https://arxiv.org/abs/2410.07566>.
- [5] Shiri Ron, Clayton Thomas, S. Matthew Weinberg, and Qianfan Zhang. “Communication Separations for Truthful Auctions: Breaking the Two-Player Barrier”. In: *65th IEEE Symposium on Foundations of Computer Science (FOCS)*. 2024. URL: <https://arxiv.org/abs/2409.08241>.
- [6] Clayton Thomas. “Priority-Neutral Matching Lattices Are Not Distributive”. Working Paper. 2024. URL: <https://arxiv.org/abs/2404.02142>.
- [7] Yannai Gonczarowski, Ori Heffetz, and Clayton Thomas. “Strategyproofness-Exposing Mechanism Descriptions”. In: *Proceedings of the 24rd ACM Conference on Economics and Computation (EC)*. 2023. URL: <https://arxiv.org/abs/2209.13148>.
- [8] Linda Cai and Clayton Thomas. “The short-side advantage in random matching markets”. In: *Proceedings of the 5th SIAM Symposium on Simplicity in Algorithms (SOSA)*. 2022. URL: <https://arxiv.org/abs/1910.04406>.

- [9] Itai Ashlagi, Mark Braverman, Amin Saberi, Clayton Thomas, and Geng Zhao. “Tiered Random Matching Markets: Rank Is Proportional to Popularity”. In: *12th Innovations in Theoretical Computer Science Conference (ITCS)*. 2021. URL: <https://arxiv.org/abs/2009.05124>.
- [10] Aviad Rubinfeld, Raghuvansh R Saxena, Clayton Thomas, S Matthew Weinberg, and Junyao Zhao. “Exponential communication separations between notions of selfishness”. In: *Proceedings of the 53rd Annual ACM SIGACT Symposium on Theory of Computing (STOC)*. 2021. URL: <https://arxiv.org/abs/2012.14898>.
- [11] Clayton Thomas. “Classification of Priorities Such That Deferred Acceptance is OSP Implementable”. In: *Proceedings of the 22nd ACM Conference on Economics and Computation (EC)*. 2021. URL: <https://arxiv.org/abs/2011.12367>.
- [12] Linda Cai, Clayton Thomas, and S. Matthew Weinberg. “Implementation in Advised Strategies: Welfare Guarantees from Posted-Price Mechanisms When Demand Queries Are NP-Hard”. In: *11th Innovations in Theoretical Computer Science Conference (ITCS)*. 2020. URL: <https://arxiv.org/abs/1910.04342>.
- [13] Linda Cai and Clayton Thomas. “Representing All Stable Matchings by Walking a Maximal Chain”. Mimeo. 2019. URL: <https://arxiv.org/abs/1910.04401>.
- [14] Venkata Gandikota, Elena Grigorescu, Clayton Thomas, and Minshen Zhu. “Maximally recoverable codes: The bounded case”. In: *In Allerton Conference on Communication, Control, and Computing*. 2017. URL: <https://ieeexplore.ieee.org/document/8262862>.

Leadership and Service

- 2023-2024 **Microsoft Research New England Econ Seminar Co-Organizer**
- 2023 & 2024 **SIGecom EC Program Committee Member**
- 2022-2024 **Journal Referee**
ACM TEAC (x 3), Management Science, International Journal of Game Theory, Experimental Economics, Games and Economic Behavior
- 2019-2024 **Subreviewer for theoretical CS conferences**
WINE’19, ESA’20, SODA’20, WINE’20, ITCS’21, SODA’21, ICALP’21, WINE’21, ITCS’22, ESA’22, SODA’22, STOC’22, FOCS’23, SODA’23, STOC’24, ICALP’24, SODA’24
- 2022 **SIGecom Seminar Series Co-organizer**
- 2022 **SIGecom EC’22 Website Chair / Student General Chair**
Updated website for 2022 ACM Conference on Economics and Computation. Screen-recorded conference tutorials.
- March 2021 **Co-Organized Princeton TCS Student Theory Day**
- 2019-2020 **Princeton CS Department Preceptor**
For “Reasoning about Computation” and “Economics and Computation”. Lectured in precept, graded homework, answered online forum questions. Assisted in the transition to online instruction during Spring 2020.
- 2019-2020 **Gems of TCS Reading Group Organizer**

Invited Talks

- October 2024 **DIMACS Workshop on Simplicity in Mechanism Design and Preference Elicitation**

- November 2023 **Harvard University: CS Theory Seminar**
- January 2023 **Northwestern/TTIC CS: 2022 Chicago Junior Theorists Workshop**
- December 2022 **Harvard University: EconCS Seminar**
- December 2022 **University of Tokeyo Market Design Center: Rising Stars in Market Design**

Non-Academic Work Experience

- Summer 2016 **Facebook Software Engineering Intern, Menlo Park, CA**
and 2017 Worked on Haskell code quality, debugging, and efficiency in Facebook's Sigma infrastructure. Worked on Retriev, a Haskell refactoring tool.
- Summer 2015 **Salesforce Software Engineering Intern, Indianapolis, IN**
Created a Google Chrome developer extension for debugging installation of Predictive Intelligence embedded Javascript.

Awards and Honors

- 2022-2023 **Wallace Memorial Fellowship in Engineering**
Awarded to 3 students across Princeton School of Engineering.
- 2023 **Siebel Scholar award**
Thomas and Stacey Siebel Foundation.
- 2021 **Princeton University School of Engineering and Applied Science Award for Excellence**
- 2018 & 2020 **NSF GRFP Honorable Mention**
- 2018 **CRA Outstanding Undergraduate Researcher Award Honorable Mention**
- 2014-2017 **Purdue University Dean's List and Semester Honors**
- 2015 **Neel Scholarship**
Awarded by the computer science department for performance in coursework.
- 2014-2017 **National Merit Corporate Scholarship**
Provided by Dow AgroSciences.