

Matheus Venturyne Xavier Ferreira

PERSONAL DATA

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RESEARCH INTERESTS

Economics and Computation and the interplay of Algorithms, Game Theory, Security, Fairness and Policy.

EDUCATION

Princeton University, Princeton, NJ, USA

Ph.D Candidate in COMPUTER SCIENCE advised by Matt Weinberg 2021

Committee: Arvind Narayanan, David Parkes, Mark Braverman, Ran Raz, Matt Weinberg

Honors & Awards:

[School of Engineering and Applied Sciences Award for Excellence](#) 2020
Dean's Grant 2016 — 2021
Fellowship in Engineering and Applied Sciences 2016

Universidade Federal de Itajuba, Itabira, MG, Brazil

B.S. in COMPUTER ENGINEERING (GPA: 93.3/100) 2016

Honor & Awards:

Academic Accolade for best student 2016
VISITING STUDENT at **University of California, San Diego** (GPA: 3.92/4.00) 2014
Funded by [BSMP Scholarship](#)
[CNS Espresso Prize for Excellence in Networking](#) 2014
1st place in Line Follower Robot Competition 2013

HONORS AND AWARDS

- [Tapia Scholarship](#), Tapia Conference Sept 2020
- [LATInE Fellow](#), Purdue University July 2020
- [2020 CRA-WP Grad Cohort for URMD](#), CRA Mar 2020
- [AGT Mentoring Workshop Grant](#), ACM June 2019
- [Motion of Applause](#), Municipal Chamber of Itabira May 2016

RESEARCH PAPERS (AUTHORS IN ALPHABETICAL ORDER)

1. Matheus V. X. Ferreira and S Matthew Weinberg. Proof-of-stake mining games with perfect randomness. In *Forthcoming in Proceedings of the 22nd ACM Conference on Economics and Computation*, EC 21, New York, NY, USA, 2021. Association for Computing Machinery
2. Matheus V. X. Ferreira and S. Matthew Weinberg. Credible, truthful, and two-round (optimal) auctions via cryptographic commitments. In *Proceedings of the 21st ACM Conference on Economics and Computation*, EC 20, pages 683–712, New York, NY, USA, 2020. Association for Computing Machinery
3. Tithi Chattopadhyay, Nick Feamster, Matheus V. X. Ferreira, Danny Yuxing Huang, and S. Matthew Weinberg. Selling a single item with negative externalities. In *The World Wide Web Conference*, WWW 19, pages 196–206, New York, NY, USA, 2019. Association for Computing Machinery

WORKING PAPERS (AUTHORS IN ALPHABETICAL ORDER)

1. Matheus V. X. Ferreira, Daniel J. Moroz, David C. Parkes, and Mitchell Stern. Dynamic posted-price mechanisms for the blockchain transaction-fee market, 2021

WORK EXPERIENCE & LONG TERM VISITS

Research Experience

- Research Assistant, Harvard University June — Sept 2020
Supervisor: Professor [David C. Parkes](#)
- Research Assistant, Princeton University June 2017 — Aug 2021
Supervisor: Professor [S. Matthew Weinberg](#)
- Undergraduate Research Assistant, Universidade Federal de Minas Gerais Sept 2013 — Feb 2014
Supervisor: Professor Fernando Afonso Santos
- Undergraduate Research Assistant, Universidade Federal de Itajuba July 2011 — Feb 2013
Supervisor: Professor Carlos Henrique da Silveira

Engineering Experience

- Broadcom Corporation at San Diego, California June — Sept 2014
Software Development Engineer Intern in Bluetooth/NFC
Supervisor: David Hughes

Consulting Experience

- Offchain Labs 2020

SERVICE

Program Committee

- [Cryptoeconomic Systems](#), 2020.
- [Global Challenges in Economics and Computation](#), 2020.

Reviewing

- [ACM EC](#), 2021.
- [USENIX Security Symposium](#), 2021.
- [Games and Economic Behavior](#), 2020.
- [ACM Advances in Financial Technologies \(AFT\)](#), 2020.
- [Innovations of Theoretical Computer Science \(ITCS\)](#), 2019, 2020.
- [Conference on Web and Internet Economics \(WINE\)](#), 2018, 2019, 2020.

LANGUAGES

PORTUGUESE: Mothertongue
ENGLISH: Fluent