Matheus Venturyne Xavier Ferreira

Personal Data

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Research Interests

I'm broadly interested in Algorithmic Design under Uncertainty and the interplay of Algorithmic Game Theory, Information Security, Fairness and Policy.

Education

In Progress	Doctor of Philosophy in COMPUTER SCIENCE, **Princeton University** PhD Advisor: S. Matthew Weinberg
Sept. 2018	M.A. in COMPUTER SCIENCE at **Princeton University** Committee: Mark Braverman, Ed. Felten, Ran Raz, Matt Weinberg
July 2016	B.S. in COMPUTER ENGINEERING at **Universidade Federal de Itajuba** Itabira, Brazil GPA: 93.3/100

Honors and Awards

• SEAS Award for Excellence, Princeton University	Dec 2020
• Tapia Scholarship	Sept 2020
• LATInE Fellow, Purdue University	July 2020
• 2020 CRA-WP Grad Cohort for URMD	March. 2020
• AGT Mentoring Workshop Grant, ACM	June 2019
• Dean's Grant, Princeton University	2016 - 2021
• First Year Fellowship in Engineering, Princeton University	Sept. 2016
• Academic Accolade for best student, Unifei	July 2016
• Congratulations from Higher Counsel, Unifei Higher Counsel	June 2016
• Motion of Applause, Municipal Chamber of Itabira	May 2016
• George Varghese Espresso Prize, UC San Diego	Dec 2014
• Brazil Scientific Mobility Program, Brazilian Government	Jan–Dec 2014
• Fapemig Research Scholarship, LOTMine, UFMG, Brazil	Sept 2013
• 1st place in Line Follower Robot Competition, Unifei, Brazil	Sept 2013
• Fapemig Research Scholarship, Unifei, Brazil	Feb 2012

Research Papers

Alphabetical Order:

1. 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, page 683–712, New York, NY, USA, 2020. Association for Computing Machinery

2. 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, page 196–206, New York, NY, USA, 2019. Association for Computing Machinery

Working Papers

1. Matheus V. X. Ferreira and S Matthew Weinberg. Proof-of-stake mining games with perfect randomness. 2020

2. Matheus V. X. Ferreira, Sally Hahn, S. Matthew Weinberg, and Catherine Yu. Stake griding attacks in algorand. 2020

Work Experience & Long Term Visits

- Research Assistant, Harvard University   June – Sept 2020
  Supervisor: Professor David Parkes

- Research Assistant, Princeton University   June 2017 – Present
  Supervisor: Professor S. Matthew Weinberg

- Non-degree international student, University of California, San Diego   2014
  GPA: 3.92/4.00

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

Service

Program Committee

- Cryptoeconomic Systems (2020).

- Global Challenges in Economics and Computation (2020)

Reviewing

- Games and Economic Behavior (2019 – 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

Section: Languages

Languages

PORTUGUESE:	Mothertongue
ENGLISH:	Fluent