

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 School of Engineering and Applied Sciences Award for Excellence (2020). Dean's Grant (2016–2021). Fellowship in Engineering and Applied Sciences (2016).
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 Itajubá , Brazil, GPA: 93.3/100 Academic Accolade for best student (2016). Congratulations from Higher Counsel (2016). 1 st place in Line Follower Robot Competition (2013).
JAN – DEC 2014	VISITING STUDENT, University of California San Diego , GPA: 3.92/4.00 Fully Funded Scholarship from Brazilian Federal Government. George Varghese Espresso Prize (2020).

HONORS AND AWARDS

• Tapia Scholarship , Tapia Conference	Sept 2020
• LATInE Fellow , Purdue University	July 2020
• 2020 CRA-WP Grad Cohort for URMD , CRA	March 2020
• AGT Mentoring Workshop Grant , ACM	June 2019
• Motion of Applause , Municipal Chamber of Itabira	May 2016
• Undergraduate Research Fellowship at UFMG , Fapeming	Sept 2013
• Undergraduate Research Fellowship at Unifei, Fapeming	Feb 2012

RESEARCH PAPERS (AUTHORS IN 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 (AUTHORS IN ALPHABETICAL ORDER)

1. Matheus V. X. Ferreira and S Matthew Weinberg. Proof-of-stake mining games with perfect randomness. *Under review*, 2021
2. Matheus V. X. Ferreira, Daniel J. Moroz, David C. Parkes, and Mitchell Stern. Dynamic posted-price mechanisms as a blockchain transaction fee mechanism. *Under review*, 2021
3. Matheus V. X. Ferreira, Sally Hahn, S. Matthew Weinberg, and Catherine Yu. Stake gridding attacks in algorand. *Working Paper*, 2021

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](#)
- Research Assistant, Universidade Federal de Itajuba Jul 2011 – Feb 2013
Supervisor: Professor Carlos Henrique da Silveira
- Research Assistant, Universidade Federal de Minas Gerais Sept 2013 – Feb 2014
Supervisor: Professor Fernando Afonso Santos
- 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

- [USENIX Security](#) (2021)
- [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

LANGUAGES

PORTUGUESE: Mothertongue
ENGLISH: Fluent