#### PERSONAL DATA

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# **RESEARCH INTERESTS**

I'm broadly interested in Algorithmic Design under Uncertainty and the interplay of Algorithmic Game Theory and Computer Security.

#### **EDUCATION**

In Progress	Doctor of Philosophy in Computer Science, <b>Princeton University</b> Research Advisor: Matthew Weinberg
SEPT 2018	M.A. in Computer Science, <b>Princeton University</b> GPA: 3.95/4.00
July 2016	B.S. in Computer Engineering at Universidade Federal de Itajuba GPA: 92.8/100
Jan-Dec 2014	Non-degree international student, <b>University of California, San Diego</b> GPA: 3.92/4.00

# **WORK EXPERIENCE**

Jun-Sept 2014

Broadcom Corporation at San Diego, California *Software Development Engineer Intern in Bluetooth/NFC Software Team* Supported the BTE Blueotooth stack, profiles and protocols – software development, debugging and testing. Developed enhancements in Bradcom WICED and Bluetooth tracing and testing tools

## RESEARCH PAPERS

Selling a Single Item with Negative Externalities: To Regulate Production or Payments?.

Joint with Tithi Chattopadhyay, Nick Feamster, Danny Yuxing Huang, S. Matthew Weinberg.

In Proceedings of The Web Conference 2019.

# **WORKING PAPERS**

- Proof-of-Stake Mining Games.
- Credible, Truthful, and Bounded-Round Mechanisms via Cryptographic Commitments. Joint with S. Matthew Weinberg.

#### **MANUSCRIPTS**

- Constructive Discrepancy Minimization for Convex Sets, joint with Corey Sinnamon, 2019.
- Make Crypto Great Again, joint with Malte Möser, 2016.
- Dolphin: Dataplane Load-balancing in Programmable Hybrid Networks, joint with Andrew Or and Chaitanya Aluru, 2016.
- Automatic Offloading of Java Applications, 2016.
- Caracterização de descontinuidade de fitas em favor de helices em estruturas proteicas toda-beta, 2013.

#### **TALKS**

December 2019	Lightning Talk & Poster Session, WINE 2019, New York City, NY  How to Force Mechanisms to Commit
June 2019	Theory of Computer Science Group, Princeton University
, ,	How to Force Mechanisms to Commit
May 2019	The Web Conference 2019, San Francisco, CA
•	Selling a Single Item with Negative Externalities: To Regulate Produc-
	tion or Payments?
December 2018	Gems of Theoretical Computer Science Seminar, Princeton University
	Simple $\log \log rank$ competitive algorithm for matroid secretary
June 2018	Poster Session, 19th ACM EC 2018, Ithaca, NY
	Mitigating Insecure Devices, to Regulate Consumers or Manufacturers?
March 2018	Mechanism Design Seminar, Princeton University
	The matroid secretary problem for minor-closed classes and random matroids
October 2017	Gems of Theoretical Computer Science Seminar, Princeton University
	Rational seceret sharing and secure multi-party computation
June 2017	Mechanism Design Seminar, Princeton University
	Selling a Single Item with Negative Externalities: To Regulate Produc-
	tion or Payments?

## SOFTWARE

Jun 2014

University of California, San Diego

Vein - Rivers of Blood

Class Project Supervised by Geoff Voelker

• Developed a distributed, real-time, 3D, multiplayer survival race game of microorganisms in the human body using C++ and DirectX11.

# **COURSE WORK**

Open Problems in Algorithmic Game Theory, Analytic Methods in TCS, Theoretical Machine Learning, Advanced Cryptography, The Probabilistic Method, Advanced Algorithm Design, Probability in High Dimension, Information Theory and Applications, Advanced Computer Networks, Automated Reasoning about Software.

## **TEACHING**

## **Princeton University - Teaching Assistant**

Spring 2020 | Junior Independent Work (COS 398)
Spring 2018 | Economics and Computation (COS 445)
Fall 2017 | Computation Geometry (COS 451)

## Universidade Federal de Itajuba - Teaching Assistant

2015 Computer Security

2013 Objected-Oriented Programming (ECO 30)

## **SERVICE**

#### Journal Reviewer

• Games and Economic Behavior (2019 to Present).

#### Invited External Reviewing

- Innovations of Theoretical Computer Science (ITCS) 2019, 2020.
- Conference on Web and Internet Economics (WINE) 2018, 2019.

# DIVERSITY, INCLUSION & OUTREACH

- Peer Mentor, Graduate Scholars Program, Princeton University, 2019.
- Peer Educator, LGBTQIA Peer Ed Program, Princeton University, 2019.
- Mentor, Princeton Summer Programming Experience, Princeton University, 2017
- Mentor, Princeton Women in Computer Science, Princeton University, 2016

#### **HONORS AND AWARDS**

Nov. 2019	2020 Computer Research Association-WP Grad Cohort for URMD
June. 2019	AGT Mentoring Workshop Grant, ACM
SEPT 2016 - JUNE 2021	Dean's Grant, Princeton University
SEPT. 2016	First Year Fellowship, Princeton University
July 2016	Academic Accolade for best student, Universidade Federal de Itajuba
DEC. 2014	George Varghese Espresso Prize, University of California, San Diego
Jan-Dec 2014	Brazil Scientific Mobility Program, fully-funded scholarship recipient
	University of California, San Diego
SEPT 2013	Fapemig Research Scholarship, LOTMine, UFMG, Brazil
SEPT 2013	$1^{st}$ Line Follower Robot Competition, Unifei, Brazil
FEB 2012	Fapemig Research Scholarship, Unifei, Brazil

#### LANGUAGES

PORTUGUESE: Mothertongue

ENGLISH: Fluent

## COMPUTER SKILLS

Programming: Python, C/C++, Java, Matlab, OpenGL, SQL, JavaScript, OCaml, R, Perl

Others: LINUX, Windows, Bash, GDB, Git, LTEX