Fernando Granha Jeronimo (webpage)

INFORMATION	Computer Science Department
	University of Chicago
	granha@uchicago.edu
	https://granha.github.io/
	Nationality: Brazilian

EDUCATION

University of Chicago - UChicago, Chicago, IL, USA

Ph.D. in Theoretical Computer Science.   Sept.2015–Jul.2020 (expected)
Advisor: Prof. Madhur Tulsiani

University of Campinas - Unicamp, Campinas, SP, Brazil

M.Sc. in Theoretical Computer Science.   Mar.2013-Jun.2015
Title: Quantum computing: automata, games, and complexity
Advisor: Arnaldo V. Moura.
Fellowship: FAPESP and CAPES
GPA: 4.0

Telecom ParisTech - ENST, Paris, France

Double Degree Program (french masters in engineering).   Sept.2009-Jul.2011
Fellowship: CAPES Brafitec

University of Campinas - Unicamp, Campinas, SP, Brazil

B.Sc. Computer Engineering.   Feb.2006-Jul.2012
1st ranked computer engineer at graduation among
about 100 students (von Neumann prize)

PUBLICATIONS
AND IN PRESS

"Unique Decoding of Explicit ϵ-balanced Codes Near the Gilbert–Varshamov Bound",
     with Dylan Quintana, Shashank Srivastava and Madhur Tulsiani
     to appear in Proceedings of the 61st IEEE Symposium on Foundations of Computer
     Science **(FOCS)** 2020,
     [full-version]

"Sum-of-Squares Lower Bounds for Sherrington-Kirkpatrick via Planted Affine Planes",
     with Mrinalkanti Ghosh, Chris Jones, Aaron Potechin and Goutham Rajendran
     to appear in Proceedings of the 61st IEEE Symposium on Foundations of Computer
     Science **(FOCS)** 2020,
     [full-version]

"List Decoding of Direct Sum Codes",
     with Vedat Levi Alev, Dylan Quintana and Shashank Srivastava and Madhur Tulsiani
     Proceedings of the 31st ACM-SIAM Symposium on Discrete Algorithms **(SODA)**
     2020 pp 1412–1425,
     [proceedings] [full-version]

"Approximating Constraint Satisfaction Problems on High-Dimensional Expanders",
     with Vedat Levi Alev and Madhur Tulsiani
     Proceedings of the 60th IEEE Symposium on Foundations of Computer Science
     (FOCS) 2019 pp 180-201,
     [proceedings] [full-version]

AWARDS AND HONORS

- UChicago Unrestricted (UU) fellowship - Fall 2019

- Computer Science TA Prize - UChicago - 2017, 2018

- von Neumann Prize 2012 IC/Unicamp: 1st ranked computer engineer at graduation

- Brazilian Computing Society (SBC): outstanding student award

- CREA-SP: outstanding undergraduate student in computer and electrical engineering

- Engineering Institute: outstanding undergraduate student in computer engineering

- Institute of Computing Unicamp: distinction award

- IBM Team Work Award

VISITING POSITIONS

California Institute of Technology - Caltech, Pasadena, CA, USA

Visiting Student Researcher.   Jun.2014-Nov.2014
Title: Quantum computational complexity and entanglement.
Advisor: Thomas Vidick.
Fellowship: BEPE FAPESP.

LANGUAGES

- English: fluent

- French: fluent (DALF, Diplôme approfondi de langue française - C1)

- Spanish: basic

- Portuguese: native speaker

TEACHING ASSISTANT

- Algorithms (MPCS55001) **UChicago**: Fall 2016, Fall 2017, Spring 2018, Fall 2018, Fall 2020

- Algorithms (CMSC27200) **UChicago**: Winter 2016, Spring 2016, Winter 2019

- Discrete Mathematics (MPCS50103) **UChicago**: Winter 2017, Winter 2018, Winter 2020

- Discrete Mathematics and Data Analysis (CAPP30271) **UChicago**: Spring 2017

- Discrete Mathematics (CMSC27100) **UChicago**: Fall 2015

- Introduction to Algorithms (MC102) **Unicamp**: Aug.2007-Dec.2007

SERVICE

- Helped organizing theory reading groups at UChicago on high-dimensional expanders and coding theory.

- Reviewer/Subreviewer: FOCS, STOC, ITCS and SICOMP.

PROFESSIONAL EXPERIENCE

IBM Linux Technology Center, Hortolândia, Brazil

Software Engineer   Jan.2012-Feb.2013
- Virtualization and Cloud Management