# Itamar Sales de Oliveira Filho


**PERSONAL INFORMATION**

**Citizenship:** Brazilian. Born on February 9th, 1994.
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**EDUCATION**

**Ph.D. in Mathematics.** In progress.
Cornell University, Ithaca, USA.
Advisor: Camil Muscalu

**Master of Sciences in Mathematics.** 2014-2016.
Universidade Federal do Ceará, Fortaleza, Brazil.
Dissertation: *Time-Frequency analysis - The Carleson theorem and the bilinear Hilbert transform.*
Advisors: Diego Moreira and Emanuel Carneiro

**Bachelor of Sciences in Mathematics.** (Magna cum Laude) 2011-2014
Universidade Federal do Ceará, Fortaleza, Brazil.
Advisor: Antonio Caminha

**HONORS**

**Eleanor Norton York Award**, Cornell University, 2017
**Cornell Fellowship**, Cornell University, 2016.
**Magna cum laude**, Universidade Federal do Ceará, 2014.
**Bronze medal** in the XV Iberoamerican University Mathematics Olympiad, 2012.
**Honorable mention** in the Brazilian Physics Olympiad, 2007, 2009, 2010.
**Bronze medal** in the Brazilian Mathematics Olympiad, 2007.

**LANGUAGES**

**Portuguese**, native speaker.
**English**
**French**

**TEACHING EXPERIENCE**

Spring 2021 - **Introduction to Real Analysis** TA, Cornell University,
Fall 2020 - **Real Analysis** TA, Cornell University,
Spring 2020 - **Calculus** Instructor, Cornell University
Fall 2019 - **Real Analysis** TA, Cornell University.
Fall 2018 - **Multivariable Calculus for Engineers** Head TA, Cornell University.
Spring 2018 - **Complex Analysis** TA, Cornell University.
Fall 2017 - **Multivariable Calculus for Engineers** TA, Cornell University.
Spring 2014 - **Linear Algebra** TA, Universidade Federal do Ceará.

**SCHOLARSHIPS**

**CNPq**, PIBIC/PICME, 2011-2014
**CNPq**, Master of Sciences in Mathematics scholarship, 2014-2016

**INVITED SEMINAR TALKS**

*Graduate students working group*, **MSRI**, 2021.
*Analysis seminar*, **ETH Zürich**, 2021.
*Analysis seminar*, **Universität Bonn**, 2021.

**TALKS AT COLLOQUIA AND CONFERENCES**

*The Circle Method*, Cornell University, 2021.
*On Bounds for Packings on a Sphere and in Space*, Kopp, Germany, 2019.
*Brascamp-Lieb inequalities*, Cornell University, 2019.
*Reconstructions from boundary measurements*, Kopp, Germany, 2018.
*Lp regularity of averages over curves and assoc. max. operators*, Kopp, Germany, 2017.

*From needles and tubes to Fourier multipliers and beyond*, Cornell University, 2017.

**COLLOQUIA AND CONFERENCES**

*Summer school on Sphere Packing and Optimal configurations*, Kopp, Germany, 2019
*Summer school on Unique Continuation and Inverse Problems*, Kopp, Germany, 2018
*ICM Satellite conference on Harmonic Analysis*, Porto Alegre, Brazil, 2018
*PCMI Summer school on Harmonic Analysis*, Park City, UT, 2018
*Summer school on decoupling and polynomial methods*, Kopp, Germany, 2017
*Recent developments in Harmonic Analysis*, MSRI, Berkeley, CA, May 2017
*Introductory Workshop: Harmonic Analysis*, MSRI, Berkeley, CA, January 2017
*Northeast Analysis Network Conference*, University of Rochester, Rochester, NY, 2016
*Current Trends in Analysis and PDEs*, IMPA, Rio de Janeiro, 2015
*Brazilian Mathematics Colloquium*, IMPA, Rio de Janeiro, 2015
*International Conference in Number Theory and Physics*, IMPA, Rio de Janeiro, 2015.
*III Encontro do Hotel de Hilbert*, Nova Friburgo, Rio de Janeiro, 2013 (workshop).

**GRADUATE COURSES TAKEN**

Algebraic Topology, 2012
Abstract Algebra, 2013
Riemannian Geometry, 2014
Analytic Number Theory, 2015
Harmonic Analysis, 2015
Differentiable Manifolds, 2016
Fourier Analysis, 2016
Complex Analysis, 2017
Probability I, 2017
Functional Analysis, 2018
Partial Differential Equations, 2018

**RESEARCH INTERESTS**

My research lies on the field of Harmonic Analysis. I am particularly interested and working on problems involving the restriction conjecture for the Fourier transform for my PhD thesis.

**OTHER ACTIVITIES**

Volunteer tutor for OBMEP (Olimpíada Brasileira de Matemática das Escolas Públicas) for two years to assist students in financial hardship.