

# Daniel Mitsutani

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Citizenship: Brazil

## Education

**University of Chicago**, Ph.D candidate in Mathematics – 2021–present

Advisor: Amie Wilkinson.

Topic exam proposal: *Lyapunov exponents: rigidity, genericity and flexibility.*

**University of Chicago**, M.S. in Mathematics – 2021

**University of Chicago**, B.S. in Mathematics with Honors – 2019

## Publications

**Symmetries of geodesic flows on covers and rigidity**

*in preparation* (2022)

**Simplicity of Lyapunov spectrum for classes of Anosov flows,**

*Ergodic Theory and Dynamical Systems* (2022)

## Teaching

**Instructor**, University of Chicago, Chicago

MATH 13100 – Elementary Functions and Calculus I, Fall 2021

MATH 13200 – Elementary Functions and Calculus II, Winter, Spring 2022

MATH 15250 – Mathematical Methods for Economic Analysis, Fall 2022, Winter, Spring 2023

**College Fellow**, University of Chicago, Chicago

MATH 23700 – Mathematical Modeling, Fall 2020

MATH 27600 – Dynamical Systems, Winter 2021

MATH 21100 – Basic Numerical Analysis, Spring 2021

**Grader**, University of Chicago, Chicago – 2016–2019

MATH 203/4/500 – Real Analysis I, II, III

MATH 195/600 – Mathematical Methods for Physical Sciences

MATH 27300 – Ordinary Differential Equations

**Math/Physics International Olympiad Tutor**, ETAPA Educacional, São Paulo – Summers 2015, 2016, 2019

## Conferences/Workshops/Schools

**Rigidity and Flexibility in Dynamical Systems Workshop at Stony Brook University**, Poster presentation, Stony Brook University, 2022

**Penn State Workshop in Dynamical Systems and Related Topics**, Pennsylvania State University, 2021

**Univ. of Houston Summer School in Dynamical Systems**, University of Houston, 2019

**RTG Analysis Bootcamp I & II**, University of Chicago, Summer 2017, 2018

**UChicago Math REU 2016**, University of Chicago, Summer 2016

## Other/Service

**UChicago Math REU Mentor**, Summers 2020-2022

**Organizer of Smooth Dynamics Student Seminar at UChicago**, 2022-present

## Awards

**Paul Cohen Memorial Prize**, awarded by the University of Chicago's Mathematics Department to the graduating seniors with the best records in math.

**Phi Beta Kappa**

**Neubauer International Student Scholarship**, awarded by The College of The University of Chicago to undergraduates of low to moderate income.

**First Prize**, International Mathematics Competition for University Students, Bulgaria (IMC 2018).

**Bronze Medal**, International Physics Olympiad 2014, Kazakhstan (IPhO 2014).

**Silver Medal**, International Olympiad on Astronomy and Astrophysics 2013, Greece (IOAA 2013).

## Languages

**Portuguese**, native.

**English**, fully fluent.