

OWEN YAEL MIRELES BRIONES

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EDUCATION

Ph.D. in Mathematics (Candidate)

Stony Brook University.

Advisor: Robert Hough

08.2018 - Current
New York, United States

Bachelor of Science in Mathematics

Universidad de Guanajuato - CIMAT.

GPA: 9.47/10.00

Thesis: Metrics of Positive Scalar Curvature in 3-Manifolds

Advisor: Jimmy Petean

08.2013 - 08.2018
Guanajuato, México

INFORMATION AND SKILLS

Legal Status: Mexican Citizen. USA (Temporary Resident, Student with F1 Visa).

Languages: Spanish (Mother tongue), English (Proficient), Portuguese (Conversational).

Programming: Python (Intermediate).

WORK EXPERIENCE

State of New York

08.2018 - Current

Grader for MAT 211. Introduction to Linear Algebra. (Fall 2018)

Grader for MAT 362. Differential Geometry of Surfaces. (Spring 2019)

Teaching Assistant for MAT 132. Calculus II. (Fall 2019)

Teaching Assistant for MAT 320. Introduction to Analysis. (Fall 2019)

Teaching Assistant for MAT 125. Calculus A. (Spring 2020)

Teaching Assistant for MAT 203. Calculus III with Applications. (Fall 2020)

Universidad de Guanajuato

08.2015 - 06.2018

Teaching Assistant. Graded and held weekly review sessions.

(Honors) Calculus 3. Multivariable differential calculus with proofs.

08.2015 12.2015

Differential Geometry. Differential geometry of smooth surfaces.

01.2017 06.2017

(Honors) Calculus 1. Differential calculus with proofs, following Spivak's book.

08.2017 12.2017

(Honors) Calculus 4. Multivariable integral calculus with proofs.

01.2018 12.2018

Number Theory Supervisor (State Level) for Guanajuato's Mathematical Olympiad.

06.2016 12.2017

ACADEMIC ACHIEVEMENTS

Silver Medal. 26th Mexican Mathematical Olympiad

Mexico, 2012.

Bronze Medal. 6th Iberoamerican Interuniversity Competition of Mathematics

Costa Rica, 2014.

Bronze Medal. 7th Iberoamerican Interuniversity Competition of Mathematics

Mexico, 2015.

10th Place. 18th Iberoamerican Olympiad of University Mathematics

Mexico, 2015.

Bronze Medal. 9th Iberoamerican Interuniversity Competition of Mathematics

Ecuador, 2017.

Perfect Score. Doctoral Comprehensive Examination

New York, 2019.

SEMINARS AND WORKSHOPS

▷ Workshops:

- XI Workshop on Calculus Problem-Solving (Assistant). 07.2014
–Centro de Investigación en Matemáticas, Mexico.
- Second School/Conference of Topological Data Analysis. 12.2015
–Universidad Nacional Autónoma de México, Campus Querétaro, Mexico.
- XVI Summer School of Mathematics. 07.2016
–Universidad Nacional Autónoma de México, Campus Michoacán, Mexico.
- XIV Workshop on Calculus Problem-Solving (Teacher Assistant). 07.2017
–Centro de Investigación en Matemáticas, Mexico.
- Summer School of IMPA. 01.2018
–Instituto Nacional de Matemática Pura e Aplicada, Rio de Janeiro, Brazil.

▷ Talks:

- A Paper by F. C. Marques and Ricci Flow.* 05.2018
–Universidad de Guanajuato, Mexico.
- Grad Student Seminar. *An Introduction to the p-Adic Numbers.* 11.2019
–Stony Brook University, NY.
- Sobre barajar cartas, Análisis Funcional y Teoría de Representaciones.* 09.2020
–Universidad de Guanajuato, Mexico.