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Education

- 2020-Present **PhD Candidate**, Department of Mathematics and Statistics, University of Ottawa
Supervisor: Dr. Simon Henry
- 2019 **M.Sc. Mathematics**, Department of Mathematics, University of Western Ontario
Supervisor: Dr. Chris Kapulkin
- 2011-2015 **B.Sc. Mathematics**, Faculty of Science, National Autonomous University of Mexico (UNAM). Mexico City, Mexico.
Thesis project: The big lattice of preradicals. Supervised by Dr. Alejandro Alvarado.

Preprints

- 2022 Limits and colimits of synthetic $(\infty,1)$ -categories. arXiv:2202.12386.

Talks

- September 2023 Limits and exponentiable functors in synthetic $(\infty,1)$ -categories. Interaction of proof assistants and mathematics, University of Regensburg.
- February 2022 Limits and colimits of synthetic $(\infty,1)$ -categories. Logic Seminar, University of Ottawa.
- November 2022 A first look into infinity categories. Graduate students colloquium, University of Ottawa.
- August 2021 Univalent foundations of mathematics. Graduate students colloquium, University of Ottawa.
- November 2019 *Sheaves and Etale spaces*. Graduate students seminar. Department of mathematics, University of Western Ontario.
- April 2016 *Fibred Categories*. Seminar of Category Theory. Institute of Mathematics, UNAM.
- October 2015 *The Big Lattice of Preradicals*. Annual meeting of the Mexican Mathematical Society. Sonora, México.

Conferences attended

- July 2022 Summer school on univalent mathematics. Cortona, Italy
- October 2015 Annual meeting of the Mexican Mathematical Society. Sonora, México.
- September 2015 First Joint International Meeting of the Israel Mathematical Union and the Mexican Mathematical Society. Oaxaca, México.

Teaching experience

As Teaching Assistant at University of Ottawa

- 2021-Present Calculus, Linear algebra, Mathematical reasoning and proofs. Tutorials and marking duties. Most of them taught more than once.

As Teaching Assistant at The University of Western Ontario

- 2019 Calculus, methods of matrix algebra, methods of finite mathematics. Marking duties and discussion sessions

Course Instructor at Faculty of Higher Studies Acatlan, UNAM Superior Algebra.

- 2018 *Main responsibilities:* Lectures, Tests and Assignments elaboration.

Course Instructor at Faculty of Science, UNAM

Linear Algebra I.

Main responsibilities: Lectures, Tests and Assignments elaboration.

As Teaching Assistant at Faculty of Science, UNAM

- 2016 - 2018 Linear algebra, number theory I, algebra I, algebra II. Tutorials and marking duties.

Other activities

- Fall 2023 Organizer of the reading seminar; "The logic elephant: topos theory"
- Fall 2023 Mentor for the Directed Reading Program "Pares ordenados".
<https://ninyam.github.io/paresordenados>
- Winter 2019 Mentor for the Directed Reading Program for undergraduate students in mathematics at the University of Western Ontario
- August 2019 Teaching Assistant Training Program. Centre for Teaching and Learning, University of Western Ontario