

ADOLFO HERNÁNDEZ IGLESIAS

M. SC. STUDENT IN MATHEMATICS

Padua, Italy | contact@adolfohi.com | www.adolfohi.com

EDUCATION

M.Sc. in Mathematics, MAPPA curriculum

Sep 2026 - Present

Università degli Studi di Padova — Padua, Italy

- MAPPA double-degree programme with Université Paris Dauphine-PSL.

B. Sc. in Mathematics

Dec 2020 - Feb 2024

Universidad Autónoma Metropolitana — Mexico City, Mexico

- GPA: 10/10; ranked 1st in graduating cohort.
- Awarded the University Merit Medal.
- Completed the degree in 10 trimesters (standard duration: 12).

RESEARCH INTERESTS

Probability theory · Stochastic processes · Stochastic analysis · Probability metrics · Stochastic control · Approximation of stochastic and deterministic models

RESEARCH EXPERIENCE

Research Assistant

Nov 2022 - Dec 2024

National System of Researchers (SNII), CONAHCYT — Mexico City, Mexico

- Conducted research under the supervision of Dr. Evgueni Gordienko (SNII Level III) on stability estimates for controlled Markov processes using probability metrics.
- Studied the accuracy of stochastic and deterministic approximations of mathematical models.
- Coauthored two resulting research articles.
- Assisted with the academic editing and revision of research manuscripts and a monograph on probability metrics, including material on measure theory and stochastic processes.

Undergraduate Research Project

Aug 2023 - Feb 2024

Universidad Autónoma Metropolitana — Mexico City, Mexico

- Studied projective and injective modules and categorical characterizations of these notions.
- Produced a written research report and delivered two presentations on the project.

PUBLICATIONS

1. Gordienko, E. and **Hernández-Iglesias, A.** (2025). "Evaluation of the Accuracy of Approximations of the Differential Growth Model Using the Logistic Model." *Japan Journal of Research*, 6(10), 161.
2. Gordienko, E. and **Hernández-Iglesias, A.** (2025). "On the Accuracy of the Deterministic Approximation of the Markov Model of Investment and Consumption Optimization." *IOSR Journal of Mathematics*, 21(6), 28–31.

TEACHING EXPERIENCE

Teaching Assistant	Feb 2024 - Sep 2026
Department of Mathematics, Universidad Autónoma Metropolitana — Mexico City, Mexico	
• Led lectures, problem-solving sessions and tutorials across 16 undergraduate mathematics courses, supporting approximately 500 students. • Assisted with calculus, linear algebra, probability, real analysis, and related subjects. • Held office hours and graded assignments and examinations.	

CONFERENCE TALKS

5th International Conference on Applied Mathematics & Computer Science	Sep 2025
Venice, Italy	
Invited lecture: “Evaluation of the Accuracy of Approximations of the Differential Growth Model Using the Logistic Model”	

HONORS & AWARDS

SECIHTI-COMECYT Scholarship	2026
Mexican government scholarship supporting graduate studies abroad.	
MAECI Scholarship	2026
Italian government scholarship for graduate study in Italy.	
University Merit Medal	2024
Awarded by the Universidad Autónoma Metropolitana for obtaining the highest GPA in the graduating cohort of my bachelor's degree.	
Excellence Scholarship	2023
Awarded by the Universidad Autónoma Metropolitana to support my undergraduate studies.	

ACADEMIC SERVICE

Reviewer — <i>WSEAS Transactions on Biology and Biomedicine</i>	2025
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TECHNICAL SKILLS

MATLAB · R · LaTeX · C++ · SQL

LANGUAGES

Spanish — Native
English — C2, TOEFL iBT 115/120
Italian — B1
French — A2