

Adolfo Hernández Iglesias

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Date of birth: 05/02/2004

EDUCATION & TRAINING

[07/12/2020 - 16/02/2024]

Bachelor's Degree in Mathematics
Universidad Autónoma Metropolitana <https://www.uam.mx/>
City: Mexico City | **Country:** Mexico | **Final grade:** 10/10

- Awarded with the University Merit Medal (ranked 1st in graduating cohort).
- Completed in 10 trimesters (standard duration: 12)
- Relevant coursework: Probability, Statistics, Real Analysis, Linear Algebra, Mathematical Models, Multivariate Analysis, Mathematical Finance.

RESEARCH EXPERIENCE

[01/11/2022 - 31/12/2024]

Research Assistant - National System of Researchers (SNII), Mexico

- Worked under the supervision of Dr. Evgueni Gordienko, who held the SNII Level III distinction during the appointment period.
- Participated in research on the stability estimation of Markov controlled processes using probability metrics.
- Coauthored two papers on the accuracy of approximations by mathematical models.
- Assisted with the academic editing and revision of a research book on probability metrics, including material on measure theory and stochastic processes.

[11/08/2023 - 16/02/2024]

Undergraduate Research Project - Universidad Autónoma Metropolitana

- Studied projective and injective modules, and categorical characterizations of these notions.
- Prepared a written research report and delivered two oral presentations.
- Developed experience in reading advanced mathematical texts, writing rigorous proofs, and presenting abstract mathematical ideas.

TEACHING EXPERIENCE

[18/02/2024 - Current]

Teaching Assistant - Department of Mathematics, UAM

- Delivered occasional lectures and led regular problem-solving sessions in 16 undergraduate courses in mathematics.
- Served approximately 500 students.
- Graded assignments and exams.
- Held office hours.

PUBLICATIONS

Research Papers

- **Gordienko, E., 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.
- **Gordienko, E., 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.

CONFERENCES & SEMINARS

[27/09/2025 - 29/09/2025]

Speaker, 5th International Conference on Applied Mathematics & Computer Science. Venice, Italy

Presented: "Evaluation of the Accuracy of Approximations of the Differential Growth Model Using the Logistic Model"

HONOURS AND AWARDS

[07/08/2026]

Secihti-COMECYT Scholarship - Secretaría de Ciencia, Humanidades, Tecnología e Innovación

[09/06/2026]

MAECI Scholarship - Italian Ministry of Foreign Affairs and International Cooperation

[29/11/2024]

University Merit Medal - Universidad Autónoma Metropolitana

Awarded to the student with the highest GPA among the graduating cohort.

[19/03/2023]

Excellence Scholarship - Universidad Autónoma Metropolitana

ACADEMIC SERVICE

Reviewer - WSEAS Transactions on Biology and Biomedicine (2025)

RELEVANT SKILLS

Mathematics

Probability theory, stochastic processes, stochastic control, probability metrics, mathematical finance, measure theory, real analysis, statistics, linear algebra; additional background in abstract algebra, including module theory and category theory.

Programming & Tools

MATLAB, R, LaTeX, C++, SQL.

Languages

Spanish (native), English (C2 - TOEFL iBT 115/120), Italian (B1), French (A2)