Andrés Ahumada Gómez

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Education

2019 - 2024   **Doctorado en Ciencias Matemáticas (Ph. D. in Mathematics)**
Universidad Nacional Autónoma de México (UNAM)
Thesis: "Actions on Spaces with Bounded Curvature"
Advisor: Dr. Fernando Galaz García

2015 - 2017   **Maestría en Ciencias Matemáticas (M. Sc. in Mathematics)**
Universidad Nacional Autónoma de México
Thesis: "Sobre una generalización del teorema de la esfera"
(On a generalization of the Sphere Theorem)
Advisor: Dr. Oscar Alfredo Palmas Velasco

2010 - 2015   **Matemáticas (B. Sc. in Mathematics)**
Facultad de Ciencias, Universidad Nacional Autónoma de México
Thesis: "Teorema de la esfera" (Sphere's Theorem) (with honors)
Advisor: Dr. Mónica Alicia Clapp Jiménez Labora

Experience

09/2024 -   **Assistant Professor**
Department of Mathematics
CUNEF Universidad

02/2024 - 07/2024   **Adjunct Professor A**
Facultad de Ciencias
Universidad Nacional Autónoma de México

09/2023 - 05/2024   **Adjunct Professor**
Escuela de Ciencias e Ingeniería
Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Ciudad de México

07/2017 - 07/2024   **Teaching Assistant B**
Facultad de Ciencias
Universidad Nacional Autónoma de México

2016 - 2025   21 Presentations in National and International Scientific Conferences

2022   Research stay at Durham University, England

2019   Research stay at Karlsruhe Institute of Tecnology, Germany

Research Interests

Riemannian Geometry, Metric Geometry, Geometric Topology, Lie Group Actions

Publications

1. **Gromov–Hausdorff convergence of metric pairs and metric tuples** (with Mauricio Che).
   Differential Geometry and Its Applications, Volume 94, 2024.
   `https://doi.org/10.1016/j.difgeo.2024.102135`

Preprints

1. **Equivariant Smoothing Processes on Currents and Spaces with Bounded Curvature**
   `https://arxiv.org/abs/2407.14674`
2. **Metric pairs and tuples in theory and applications** (with Mauricio Che and Manuel Cuerno).
   `https://arxiv.org/abs/2505.12735`

Fellowships

2019 - 2023	Ph. D. scholarship awarded by Consejo Nacional de Ciencia y Tecnología (CONACYT) (National Council of Science and Technology)
2022	UNAM Graduate School support for a research stay at Durham University, England
2019	UNAM Graduate School support for a research stay at Karlsruhe Institute of Technology
2017	Stimulus for the timely graduation in the Graduate School of UNAM
2015 - 2017	Master's scholarship awarded by CONACYT
2015	Academic Excellence Scholarship of UNAM to the successful obtaining of the bachelor degree

Courses

2023	Excel Skills for Business, Coursera, Macquarie University
2023	Mathematics for Machine Learning, Coursera, Imperial College London
2023	Python for Everybody, Coursera, University of Michigan

Languages

Spanish (Native)
English (TOEFL ITP 603)
German (ÖSD B1)

Affiliations

Sociedad Matemática Mexicana
Real Sociedad Matemática Española
European Mathematical Society