

Luis Manuel Reyes de la Luz

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PhD Candidacy, UNAM.

Education

2015-2020	Faculty of Sciences UNAM, BSc, Mathematics
2020-2022	Faculty of Sciences UNAM , MSc, Mathematics
2023-Present	Faculty of Sciences UNAM , PhD, Mathematics

Research Interest

p-adic Hodge theory, Perfectoid Spaces, Galois Cohomology, Category theory, Algebraic Combinatorics, Tropical Geometry.

Employment

- Adjunct Professor, Faculty of Science, UNAM, Aug. 2020 – Present.
- PhD Student, Faculty of Science, UNAM, Jan 2023 – Present.

Grants

- Beca Nacional, CONACYT, 2020-2022.
- Beca Nacional, SECIHTI, 2023-2027.
- CIMPA School, June 2023.
- CIMPA School, May 2022.

Publications

- Categorías y superficies de Riemann. BSc thesis. Supervisor Dr. Vinicio Antonio Gómez.
- Correspondencia de Galois en los anillos de Periodos. MSc report. Supervisor Dr. Jesús Rogelio Pérez Buendía.

Talks and Conferences

Escuela Fico Gonzales Acuña de Nudos y 3-variedades, CIMAT.	Nov. 2019	Assistant.
p-adic Numbers, Ultrametric Analysis and Applications, CIMPA School.	May 2022	Assistant.
2do Encuentro de Biología Matemática y Métodos no Arquimedianos, CIMAT Mérida.	Nov. 2022	Poster, <i>Correspondencia de Galois en los anillos de periodos de Fontaine</i> .
CIMPA School, Algebraic and Tropical Methods for Solving Differential Equations, IMATE Oaxaca.	Jun. 2023	Assistant.

V Encuentro de Matroides, IMATE UNAM.	Aug. 2023	Assistant.
1er Encuentro Quimera Matemática, Faculty of Sciences UNAM.	Oct. 2023	Talk, <i>Un mundo donde los triángulos son isóceles.</i>
Seminario de Estudiantes, CINVESTAV.	Nov. 2023	Talk, <i>Números p-ádicos.</i>
Escuela de Algebra y Geometría Algebraica, CIMAT Guanajuato.	Dic. 2023	Poster, <i>Teoría de Galois para Representaciones.</i>
Encuentro de Posgrados en Matemáticas, UADY-CIMAT-UJAT.	Jun. 2024	Talk, <i>Correspondencia de Galois en anillos de periodos.</i>
VIII ECCO, CIMPA Research School: Bridges between Algebra and Combinatorics.	Jun. 2024	Assistant.
Seminario de Becarios, IMATE UNAM.	Oct. 2024	Talk, <i>Perspectiva categórica de los vectores de Witt.</i>
57 Congreso Nacional de la Sociedad Matemática Mexicana, Juárez University.	Oct. 2024	Talk. <i>La curva de Fargues-Fontaine.</i>
Arquibio 2024, CIMAT Mérida.	Nov. 2024	Talk. <i>Propiedades jerárquicas p-ádicas del código genético.</i>
RGAS Summer School on Perfectoid Techniques, UAM.	May. 2025	Assistant.
Seminario de Becarios, IMATE UNAM.	May. 2025	Talk, <i>Matemáticas condensadas.</i>
Mathematical Congress of the Americas, University of Miami.	Jul. 2025	Poster. <i>The fundamental ring A_{inf} and the tilt Correspondence.</i>
50th ISSAC 2025, CIMAT, Guanajuato	Aug. 2025	Assistant

Teaching Experience

Higher Algebra I, Faculty of Sciences, UNAM	Fall 2023
Linear Algebra II, Faculty of Sciences, UNAM	Spring 2024
Introduction to valuation theory, Pares Ordenados, DRP	Spring 2024
Calculus III, Faculty of Sciences, UNAM	Fall 2024
Calculus IV, Faculty of Sciences, UNAM	Spring 2025

Technical Skills

- Python programming.
- Sage programming.
- Java.
- Wolfram Mathematica.
- Development web.

Languages

- Spanish, Native.
- English, Conversational.
- French, elementary.

References

- Dr. Vinicio Antonio Gómez Gutiérrez. Faculty of Sciences, UNAM. vgomez@ciencias.unam.mx
- Dr. Jesús Rogelio Pérez Buendía. CIMAT Mérida. Rogelio.perez@cimat.mx