# Luis Felipe Lopez Reyes

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## Education

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| December 2022 | PhD in Mathematical Physics **SISSA, Italy**. |
| July 2018 | MSc in Mathematics, **National Autonomous University of Mexico (UNAM)**. |
| July 2016 | BSc in Mathematics, **National Autonomous University of Mexico (UNAM)**. |

## Work Experience

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| *2015-2017* | Teaching Assistant (Mathematics) at National Autonomous University of Mexico (UNAM), <br> Analytic Geometry and Linear Algebra. |

## Publications

- Isomonodromic Deformations Along the Caustic of a Dubrovin-Frobenius Manifold, SIGMA 19 (2023), 092 21 pages.

## Certifications

- Data Analysis with Python, IBM Digital Credential.

## Languages

Native Spanish, fluent English and Italian, advanced French.

## Conferences, Schools, Seminars

- Third Latinamerican School on Algebraic Geometry and its Applications (ELGA 3), CIMAT, Guanajuato, México 07/31/2017-08/11/2017.

- Summer School in Mathematics, Foliations and Algebraic Geometry, Institut Fourier, Grenoble, France 06/17/2019-07/05/2019.

- Winter School on Integrable Systems and Representation Theory, Bologna, Italy 01/13/2020-01/17/2020.

- Imlpicit Function Theorems in Geometry and Dynamics, Schloß Rauischholzhausen, Germany 02/19/2020-02/22/2020

- Organizer of the Integrable Systems Student Seminar at SISSA on the year 2021.

- XLVI Summer School on Mathematical Physics, Ravello, Italy 09/06/2021-09/15/2021. (Presented small talk "The monodromy data of a Frobenius Manifold").

- D-Modules: Applications to Algebraic Geometry, Arithmetic and Mirror Symmetry, Marseille 04/12/2022-04/16/2022.

- PIICQ workshop "Excursions in Integrability", Trieste 05/23/2022-05/27/2022). (Presented poster "Monodromy Data of three-dimensional Frobenius Manifolds along their Caustic" ).

- Integrable systems, Frobenius manifolds and related topics, Dijon 07/06/2022-07/09/2022. (Presented seminar "A Criterion for a semisimple Caustic of a Frobenius Manifold").

- Topological Recursion Salento 2022, Otranto 09/05/2022-09/16/2022. (Presented poster "Monodromy Data of a Dubrovin-Frobenius Manifolds along their Caustic" ).

- Algebraic and Tropical Methods for Solving Differential Equations, Oaxaca 06/12/2023-06/23/2023. (Presented short talk "Non-generic Isomonodromic Deformations of Linear Ordinary Differential Equations").