

NÉSTOR FERNANDO DÍAZ MORERA

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ACADEMIC INTERESTS

Representation Theory: Combinatorics and Algebraic Groups

EDUCATION

Tulane University, New Orleans, USA

- Ph.D., in Mathematics (expected graduation: 2023).
- Dissertation Topic: Ding Varieties of complexity one and Spherical varieties
- Advisor: [Prof. Mahir Bilen Can](#)
- mcan@tulane.edu

Instituto Politécnico Nacional, Ciudad de México, México

- M.S., in Mathematics (2018).
- Dissertation Topic: Q_p spaces on hyperbolic Riemann Surfaces
- Advisor: Prof. Luis M. Tovar Sánchez
- tovar@esfm.ipn.edu

Universidad Sergio Arboleda, Bogotá, Colombia

- B.S., in mathematics (2015).
- Dissertation Topic: Complex Structures on Compact Surfaces
- Advisor: Prof. Leonardo A. Cano García
- lcnog@unal.edu.co

PUBLICATIONS AND PREPRINTS

1. **On Schubert and Ding Varieties of Complexity One** (joint with Mahir Can). (in preparation).

CONFERENCES AND CONTRIBUTED TALKS

2. *Ding and Schubert Varieties*. Congreso Nacional Sociedad Matemática Mexicana, Gaudalajara-México, Octubre, 2022 (hybrid-[video](#)).
1. *Q_p Spaces on Hyperbolic Riemann Surfaces*. Encuentro Sociedades de Matemáticas de Colombia y México, Barranquilla, Colombia, June 1, 2018.

¹Updated November 14, 2022

Participant

7. *Texas Algebraic Geometry Symposium (TAGS)*. Texas A&M University, College Station, Texas, USA, September-2022.
6. *Southern Regional Algebra Conference (SRAC)*. Georgia College & State University, Milledgeville, Georgia, USA, March-2022.
5. *CombinaTexas*. Texas A&M University, College Station, Texas, USA, March-2022.
4. *PRIMA congress*. Casa Matemática Oaxaca, Oaxaca, México, August-2017.
3. *Seminario Interinstitucional “Análisis: Norte-Sur”*. CINVESTAV-IPN, CDMX-México, November-2016.
2. *Congreso Nacional de la Sociedad Matemática Mexicana*. La Sociedad Matemática Mexicana, Aguascalientes, México, October-2016.
1. *XIX Congreso Colombiano de Matemáticas*. La Sociedad Matemática Colombiana, Barranquilla, Colombia, Juy-2013.

SEMINAR PRESENTATIONS (EXPOSITORY)

5. *Ding and Schubert Varieties*. Graduate Student Colloquium at Tulane university, USA, Spring 2022.
4. *A naive Introduction to Affine Schemes*. Graduate Student Colloquium at Tulane university, USA, Fall 2021.
3. *From Differential Geometry to Lie Theory*. Graduate Student Colloquium at Tulane university, USA, Fall 2020 (virtual).
2. *Contar nos hace la vida más fácil*. COCITEI, Oaxaca-México, Summer 2020 (virtual-[video](#)).
1. *Manifold and their Applications*. Graduate student Seminar at IPN, México, Fall 2018.

TEACHING EXPERIENCE

Tulane University

- Teaching Assistant, Math 1311 Consolidated Calculus I (Fall 2022)
- Instructor, Math 1100 Probability & Statistic I (Summer 2022)
- Instructor, Math 1150 Long Calculus I (Spring 2022).
- Teaching Assistant, Math 3090 Linear Algebra (Fall 2021).
- Teaching Assistant, Math 1230 Statistics for Scientist (Fall 2019, Spring 2020, Fall 2020, Spring 2021).
- Teaching Assistant, Math 1210 Calculus I (Fall 2018).

OUTREACH & SERVICE

- Volunteer in [Math For All](#), a conference on Math Education and Research, NOLA (2021 & 2022).
- President of [AMS Student Chapter](#) (2021-2022).

AWARDS

- Travel Grant for Mathematical Sciences Research Institute (MSRI): Gauge Theory in Geometry and Topology (Virtual School) (2021)
- Summer Research Support from the department of Mathematics, Tulane university (2019-2021)
- The National Council for Science and Technology (CONACYT) scholarship: Master's studies at IPN-México (2016-2018)

SKILLS

- **Languages:** Spanish (native), English (proficient).
- **Programming:** Familiar with Python and Sage.
- **Formatting:** \LaTeX and Microsoft Office.