

Sebastián Pardo Guerra

Curriculum Vitae

Department of Bioengineering,
University of California San Diego,
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EDUCATION

PhD. Mathematics, National Autonomous Mexican University (UNAM),
2019. Thesis: The big lattice of lattice preradicals.

M. S. Mathematics, National Autonomous Mexican University (UNAM),
2014. Thesis: About Abelian groups that are not the additive group of a ring.

B. S. Mathematics, National Autonomous Mexican University (UNAM),
2010. Thesis: Some aspects of Galois Theory.

EMPLOYMENT

2023-2024 Lecturer, University of California, San Diego. Department of Mathematics.

2022 Postdoctoral researcher at University of California San Diego
(UCSD), Center for Engineered Natural Intelligence (CENI).

2019-2021 Postdoctoral researcher at University of California San Diego
(UCSD), Department of Bioengineering.

2012-2018 Lecturer, National Autonomous Mexican University (UNAM).

FELLOWSHIPS AND AWARDS

2014–2018 CONACYT Fellowship PhD. program.

2012-2014 CONACYT Fellowship M.S. program.

PUBLICATIONS

- 2023 González-Bayona F., Pardo-Guerra S., Rincón-Mejía H., Zorrilla-Noriega M., "On torsion theories and open classes of linear modular lattices"; accepted at *Communications in Algebra*.
- 2023 Pardo-Guerra S., Rincón-Mejía H., Zorrilla-Noriega M., González-Bayona F., "On the lattice of conatural classes of linear modular lattices", accepted at *Algebra Universalis*.
- 2022 Pardo-Guerra S., Vivek G, Roldan J., Morar V., Silva G., "On using undirected graph techniques for directed graphs through Category Theory", under review at *Open Journal of Discrete Mathematics*.
- 2022 Pardo-Guerra S., Silva G., "On preradicals, entropy, and persistence", under review at *International Journal of General Systems*.
- 2021 Pardo-Guerra S., Silva G., "Information entropy re-defined in a category theory context using preradicals", *arXiv* 2112.06034.
- 2021 Pardo-Guerra S., Rincón-Mejía H., Zorrilla-Noriega M., "Big lattices of hereditary and natural classes of linear modular lattices", *Algebra Universalis*, 82(4), 1-15.
- 2020 Pardo-Guerra S., Silva G., "A category theory approach using preradicals to model information flows in networks". *arXiv* 2012.02886.
- 2018 Pardo-Guerra S., Rincón-Mejía H., Zorrilla-Noriega M., "Some isomorphic big lattices and some properties of lattice preradicals" *Journal of Algebra and its Applications*, 19(07), 2050140.
- 2016 Jaramillo N., Pardo-Guerra S., Ramirez-Galarza A., "Manual of strategies to solve Analytic Geometry exercises", Publications of Faculty of Pure Science, National Autonomous Mexican University (UNAM).

CONFERENCE PARTICIPATION

Feb 2022 “Hereditary and natural classes of complete linear modular lattices”.
Workshop on Afternoons of coffee and Algebra, Metropolitan Autonomous
University (UAM), Mexico.

Oct 2018 “The big lattice of lattice preradicals”. Mexican National Congress of
Mathematics, Tabasco, Mexico.

May 2018 “The big lattice of lattice preradicals”, 34th Ohio State-Denison Mth
Conference, Ohio, USA.

TEACHING

Undergrad:
Basic Algebra I, (2017).

Basic Algebra II, (2017, 2016, 2014, 2013, 2012).

Linear Algebra I (2018, 2014).

Linear Algebra II (2018, 2015, 2014).

Abstract Algebra I (2016, 2015).