

Curriculum Vitae

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❖ Education

- 2014-2018 PhD, Mathematics, Universidad Federal de Goiás (UFG), Goiânia, Brazil. Advisor: Ronaldo Alves Garcia
- 2009-2010 M. A. in Mathematics, Universidad de Murcia (UM), Murcia, Spain. Advisor: Francisco Balibrea Gallegos.
- 2004-2009 B. S. in Mathematics, Universidad de El Salvador (UES), San Salvador, El Salvador.

❖ Academic Positions

- 2011-present Universidad de El Salvador. Professor, actually Principal of Mathematics School.
- 2007-2023 (eventually) Universidad de El Salvador, Programa Jóvenes Talento (Olympics Program), Mentor and Instructor.
- 2011-2018 (eventually) Ministry of Education of El Salvador. Specialist. Specialization course in mathematics for secondary teachers: module of combinatory, number theory, trigonometry and planar isometries, calculus, planar geometry, functions theory.

❖ Publications

- 2023 *Principal Lines on an Ellipsoid in a Minkowski Three-Dimensional Space*. KoG-27, 2023. <https://doi.org/10.31896/k.27.1>. Original scientific paper.
- 2023 *Análisis Global de la Ecuación de Lyness*. Preprint arXiv , 2023.
- 2023 *Aproximación Dinámica al Problema de Hermite*. Preprint arXiv , 2023.
- 2018 *Linhas de Curvaturas Principais e Geodésicas Nulas em Superfícies Imersas no Espaço de Minkowski 3-dimensional*. PhD thesis, Universidad Federal de Goiás, Brazil, 2018.

❖ Talks

- 2022 *Topology of Function Spaces* (Course). CIMPA research school El Salvador 2022 “Algebraic Methods in Topology”, UES, San Salvador, El Salvador.
- 2018 *Structural Stability and Genericity of Principal Configuration on Surfaces Imersas in $R^{\wedge}(2,1)$* . 15th International Workshop on Real and Complex Singularities, USP, São Carlos, Brazil.
- 2018 *Geodésicas Nulas de Superfícies Imersas en $R^{\wedge}(2,1)$* . Seminario Invernal de Matemática, UES, San Salvador, EL Salvador
- 2017 *Geometría y Dinámica*. Escuela de Sistemas Dinámicos El Salvador 2017. UES, San Salvador, El Salvador.

❖ Adviser

- 2023 PhD thesis. Dinámica de Grupos Kleinianos y su extensión a la frontera ideal. Universidad de El Salvador, Yoceman Sifontes.
- 2020 Bachelor thesis. Teoría de índices y estabilidad estructural de campos vectoriales. Universidad de El Salvador, Otmaro Landaverde.
- 2019 Bachelor thesis. El cono de luz y el modelo del hiperboloide de la geometría hiperbólica tridimensional. Universidad de El Salvador, Víctor Ochoa.

❖ Poster

- 2017** *Singularidades da configuração principal de superfícies imersas em $R^{\{2,1\}}$* . Colóquio Brasileiro de Matemática, IMPA, Rio de Janeiro, Brazil.
- 2017** *Ciclos Principais numa Superfície Imersa em $R^{\{2,1\}}$* . IX Oficina de Sistemas Dinâmicos, UFABC, São Bernardo do Campo, São Paulo, Brazil.
- 2016** *Surfaces around closed principal curvature lines in minkowski space $R^{\{2,1\}}$* . 14th International Workshop on Real and Complex Singularities, USP, São Carlos, São Paulo, Brazil.
- 2016** *Geodésicas Nulas em Superfícies no Espaço $R^{\{2,1\}}$* . VIII Oficina de Sistemas Dinâmicos, UFG, Pirenópolis, Goiânia, Brazil.
- 2015** *Ciclos Principais em Superfícies Cúbicas do R^3* . VII Oficina de Sistemas Dinâmicos, UNIFEI, Itajubá, Rio de Janeiro, Brazil.

❖ Organizer

- 2024 CIMPA research school El Salvador 2024 “Teoría de Subvariedades y Análisis Geométrico”, San Salvador, El Salvador. Co-Organizer.
- 2023 EMALCA El Salvador 2023. San Salvador, El Salvador. Organizer.
- 2022 CIMPA research school El Salvador 2022 “Algebraic Methods in Topology”, San Salvador, El Salvador. Organizer.
- 2021 Research school “Jornada de Álgebra y Aplicaciones El Salvador 2021”. Online. Organizing committee.
- 2021 Research school “Ecuaciones Diferenciales Parciales y Aplicaciones”. Online. Organizer.
- 2020 CIMPA Pre-School “Algebraic Methods in Topology”, Universidad de El Salvador. Co-Organizer.
- 2019 Escuela Internacional de Geometría Diferencial El Salvador 2019. San Salvador, El Salvador. Organizer.
- 2012 Research school “Teoría de la Medida”. San Salvador, El Salvador. Organizer.

❖ Participation

- 2023 CIMPA research school “Mathematical Modelling and Numerical Simulation in Medicine”. Havana, Cuba.
- 2010 No Lineal 2010. Universidad de Cartagena, Cartagena, España.
- 2007 EMALCA Nicaragua 2007. UNAM, León, Nicaragua.
- 2006 Pan-American Advanced Studies Institute (PASI), Mathematical Models In Population Dynamics, UES, San Salvador, El Salvador.

❖ Courses taught at Universidad de El Salvador:

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| ✓ Differential manifolds (master degree) | ✓ Topics of Differential Equations Theory |
| ✓ Topology | ✓ Introduction to dynamical systems |
| ✓ Differential Equations | ✓ Differential Calculus |
| ✓ Partial Differential Equations | ✓ Planar geometry. |

❖ Languages

- ✓ Spanish (native language): read, write and speak fluently.
- ✓ Portuguese: read, write and speak fluently.
- ✓ English: read advanced, write intermediate, comprehension and speak pre-intermediate.