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Research Interests

Holomorphic foliations, Levi-flat hypersurfaces, complex and real analytic geometry, singularity theory, holomorphic webs, Poisson geometry.

Academic Positions

- **Associate Professor**, Department of Mathematics, Universidade Federal de Minas Gerais (UFMG), Brazil (2011–present).
- **Visiting Scholar**, University of Illinois at Urbana–Champaign, USA (2022–2023).

Education

- **Ph.D. in Mathematics**, Instituto Nacional de Matemática Pura e Aplicada (IMPA), Brazil, 2010. Advisor: Alcides Lins Neto.
- **M.Sc. in Mathematics**, Instituto de Matemáticas y Ciencias Afines (IMCA), Peru, 2007. Advisor: Renato Benazic Tóme.
- **B.Sc. in Mathematics**, Universidad Nacional Mayor de San Marcos, Peru, 2005.

Postdoctoral Positions

- University of Illinois at Urbana–Champaign, USA (2022–2023), CNPq Fellowship.
- Pontificia Universidad Católica del Perú (PUCP), Peru (2015), CAPES Fellowship.

Publications in Refereed Journals (Complete List)

1. Fernández-Pérez, A.; García Barroso, E.R.; Saravia-Molina, N. *On some indices of foliations and applications*. Research in the Mathematical Sciences, 2026.
2. Fernández-Pérez, A.; Saravia-Molina, N. *On a Mattei–Salem theorem*. Annales Polonici Mathematici, 2025.
3. Fernández-Pérez, A.; García Barroso, E.R.; Saravia-Molina, N. *An upper bound for the GSV-index of a foliation*. Rendiconti del Circolo Matematico di Palermo, 2025.
4. Fernández-Pérez, A.; Bernardes, V.O.S. *Holomorphic foliations of degree four on the complex projective space*. Bulletin of the Brazilian Mathematical Society, 2025.
5. Fernández-Pérez, A.; García Barroso, E.R.; Saravia-Molina, N. *On Milnor and Tjurina numbers of foliations*. Bulletin of the Brazilian Mathematical Society, 2025.

6. da Silva, A.A.; Fernández-Pérez, A. *On real analytic Levi-flat hypersurfaces associated with Milnor fibrations*. Bulletin of the Brazilian Mathematical Society, 2024.
7. Fernández-Pérez, A.; Marra, G. *On Levi-flat hypersurfaces with singularities on a manifold boundary*. Mathematische Nachrichten, 2024.
8. Beltrán, A.; Neciosup, H.; Fernández-Pérez, A. *On the existence of holomorphic foliations on Hopf manifolds*. Pesquimat, 2024.
9. Fernández-Pérez, A.; Costa, G.N.; Bazán, R.R. *On the Milnor number of non-isolated singularities of holomorphic foliations and its topological invariance*. Journal of Topology, 2023.
10. Fernández-Pérez, A.; García Barroso, E.R.; Saravia-Molina, N. *On the Brianchon–Skoda theorem for foliations*. Expositiones Mathematicae, 2023.
11. da Silva, A.A.; Fernández-Pérez, A. *On real-analytic Levi-flat hypersurfaces and holomorphic webs*. Expositiones Mathematicae, 2023.
12. Fernández-Pérez, A.; Costa, G.N.; Ramos, A. *On special holomorphic distributions and residues*. Bulletin of the Brazilian Mathematical Society, 2023.
13. Fernández-Pérez, A.; Mol, R.; Rosas, R. *Chow’s theorem for real analytic Levi-flat hypersurfaces*. Bulletin des Sciences Mathématiques, 2022.
14. Corrêa Jr., M.; Fernández-Pérez, A.; Soares, M.G. *Brunella–Khanedani–Suwa variational residues for invariant currents*. Journal of Singularities, 2021.
15. Beltrán, A.; Fernández-Pérez, A.; Neciosup, H. *Pull-back of singular Levi-flat hypersurfaces*. Arkiv för Matematik, 2021.
16. Fernández-Pérez, A.; Támara, J. *Lehmann–Suwa residues of codimension one holomorphic foliations and applications*. Asian Journal of Mathematics, 2020.
17. Fernández-Pérez, A.; Mol, R.; Rosas, R. *On singular real analytic Levi-flat foliations*. Asian Journal of Mathematics, 2020.
18. Fernández-Pérez, A.; Mol, R. *Residue-type indices and holomorphic foliations*. Annali della Scuola Normale Superiore di Pisa, 2019.
19. Fernández-Pérez, A.; Costa, G.N. *On foliations by curves with singularities of positive dimension*. Journal of Dynamical and Control Systems, 2019.
20. Bretas, J.; Fernández-Pérez, A.; Mol, R. *Holomorphic foliations tangent to Levi-flat subsets*. Journal of Geometric Analysis, 2018.
21. Fernández-Pérez, A.; Marra, G. *Local normal forms of singular Levi-flat hypersurfaces*. Journal of Geometric Analysis, 2018.
22. Corrêa Jr., M.; Fernández-Pérez, A. *Absolutely k -convex domains and holomorphic foliations on homogeneous manifolds*. Journal of the Mathematical Society of Japan, 2017.
23. Calvo-Andrade, O.; Corrêa Jr., M.; Fernández-Pérez, A. *Higher codimensional foliations with Kupka singularities*. International Journal of Mathematics, 2017.

24. Fernández-Pérez, A.; Mol, R.; Rosas, R. *Compact invariant sets for global holomorphic foliations*. Bulletin of the Brazilian Mathematical Society, 2017.
25. Beltrán, A.; Fernández-Pérez, A.; Neciosup, H. *Existence of dicritical singularities of Levi-flat hypersurfaces and holomorphic foliations*. Geometriae Dedicata, 2017.
26. Calvo-Andrade, O.; Corrêa Jr., M.; Fernández-Pérez, A. *On non-Kupka points of codimension one foliations on $\mathbb{P}^3$* . Anais da Academia Brasileira de Ciências, 2016.
27. Corrêa Jr., M.; Fernández-Pérez, A.; Ferreira, A.M. *Classification of holomorphic foliations on Hopf manifolds*. Mathematische Annalen, 2016.
28. Fernández-Pérez, A. *On normal forms for Levi-flat hypersurfaces with an isolated line singularity*. Arkiv för Matematik, 2015.
29. Fernández-Pérez, A. *Normal forms of Levi-flat hypersurfaces with Arnold type singularities*. Annali della Scuola Normale Superiore di Pisa, 2014.
30. Corrêa Jr., M.; Fernández-Pérez, A.; Costa, G.N.; Martins, R.V. *Feuilletages par des courbes ayant des courbes comme singularités*. Annales de l'Institut Fourier, 2014.
31. Fernández-Pérez, A. *Levi-flat hypersurfaces tangent to projective foliations*. Journal of Geometric Analysis, 2014.
32. Fernández-Pérez, A. *On Levi-flat hypersurfaces with generic real singular set*. Journal of Geometric Analysis, 2013.
33. Fernández-Pérez, A. *On normal forms of singular Levi-flat real analytic hypersurfaces*. Bulletin of the Brazilian Mathematical Society, 2011.
34. Fernández-Pérez, A. *On Levi-flat hypersurfaces tangent to holomorphic webs*. Annales de la Faculté des Sciences de Toulouse, 2011.

Ph.D. Supervision (UFMG)

- Marcela de Fátima Ribeiro Nascimento (2025) - *On the k -th Milnor and k -th Tjurina numbers of a foliation on $(\mathbb{C}^2, 0)$* .
- Pedro Carlos Barbosa Júnior (2025) — *The Bruce–Roberts Number and the Bruce–Roberts Tjurina Number for Holomorphic 1-Forms*.
- Vângellis Oliveira Sagnori Maia (2022) — *Holomorphic foliations of degree four on the complex projective space*.
- Ayane Adelina da Silva (2021) — *Levi-flat hypersurfaces and holomorphic webs*.
- Allan Ramos de Souza (2020) — *Special distributions determined by their singular scheme and residues*.
- Gustavo Franco Marra Domingues (2017) — *Singular Levi-flat hypersurfaces*.
- Jane Lage Bretas (2016) — *Holomorphic foliations tangent to Levi-flat subsets (co-advisor)*.
- Antonio Marcos Ferreira da Silva (2014) — *Classification of holomorphic distributions on Hopf manifolds*.

Languages

- Spanish: Native
- Portuguese: Fluent
- English: Fluent
- French: Reading knowledge