Aurélio Menegon

Male · Brazilian
E-mail: aureliomenegon@gmail.com
Birthdate: 28 July 1983 · 37 years old
Address: João Pessoa - PB, Brazil

Current Institution

Federal University of Paraíba (UFPB - Brazil)
Department of Mathematics
Adjunct Professor (equivalent to Tenured Assistant Professor in the USA)

Education

2008 - 2012	Ph.D. in Science (Mathematics) / National Autonomous University of Mexico. Thesis: “The topology of the Milnor fiber of real and complex surfaces”. Supervised by Prof. Dr. José Seade. Fellowship from “Consejo Nacional de Ciencia y Tecnología (CONACYT – Mexico)”.
2005 - 2007	Master in Science (Mathematics) / University of São Paulo (Brazil). Thesis:”Milnor number and Euler obstruction”. Supervised by Prof. Dr. Raimundo Nonato Araújo dos Santos. Fellowship from “Coordenação de Aperfeiçoamento de Pessoa de Nível Superior (CAPES)”.
2001 - 2005	Production Engineering / University of São Paulo (Brazil).

Postdoc and Visiting Positions

2018 - 2018	IMATE - Cuernavaca, National Autonomous University of Mexico. Fellowship from “Proyecto FORDECYT (CONACYT – Mexico)”.
2015 - 2016	IMATE - Cuernavaca, National Autonomous University of Mexico. Fellowship from “Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq - Brazil)”.
2012 - 2013	ICMC - São Carlos, University of São Paulo (Brazil). Fellowship from “Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP)”.
2013	Summer Postdoc (2 months): Institute for Pure and Applied Mathematics, Rio de Janeiro (IMPA - Brazil). Fellowship from IMPA.

Positions at the Federal University of Paraíba (UFPB) - Brazil

2020 - present	Adjunct Professor Level C-3 (tenured).
2018 - 2020	Adjunct Professor Level C-2 (tenured).
2016 - 2018	Adjunct Professor Level C-1 (tenured).
2015 - 2016	Adjunct Professor Level A-2 (tenure-track).
2013 - 2015	Adjunct Professor Level A-1 (tenure-track).

Languages

Portuguese	Native
Spanish	Fluent
English	Fluent
French	Basic

Research Interests

Singularity Theory: Geometry and topology of singularities. Algebraic geometry, complex geometry and real analytic geometry. Subanalytic sets and maps, Milnor fibration theorems, monodromy, vanishing cycles, equisingularity.

Editorial Experience

1. R.N. **Araújo dos Santos**, A. **Menegon**, D. **Mond** and M. **Saia**. Singularities and Foliations. Geometry, Topology and Applications (Proc. of the 2nd Brazil-Mexico Meeting in Singularities). Springer Proceedings in Mathematics & Statistics (2018).

Experience as Referee for Scientific Journals

Referee for the *International Journal of Mathematics* (IJM) and for the *Journal of the Mathematical Society of Japan* (JMSJ).

Talks in Scientific Meetings

1. *Lê's Vanishing Polyhedron,* at the conference *Non-Isolated Singularities and Derived Geometry.* Cuernavaca - Mexico, July 2019.

2. *Lê's Vanishing Polyhedron for a Family of Mixed Singularities,* at the *Brazil-Chile-Mexico 4th Meeting on Singularities.* Talca, Chile, March 2019.

3. *Lê's Vanishing Polyhedron for a Family of Mixed Singularities,* at the *6th Franco-Japanese-Vietnamese Symposium On Singularities.* Nha Trang, Vietnam, September 2018.

4. *On The Topology of Smooth Map-Germs Near A Critical Point*, at the *Brazil-Mexico 3rd Meeting on Singularities.* Cuernavaca, Mexico, August 2017.

5. *On the Lê-Milnor fibrations for real analytic maps*, at the *14th Workshop on Real and Complex Singularities.* São Carlos, Brazil, July 2016.

6. *Elementary notions in Singularity Theory*, at the *1st Math Symposium for Undergrad Students.* João Pessoa, Brazil, October 2016.

7. *Lê's polyhedron for line singularities*, at the *Brazil-Mexico 2nd Meeting on Singularities.* Salvador, Brazil, July 2015.

8. *Mini-course: Topology of singularities*, at the workshop *Singularities in Aguitas*, Aguascalientes. Mexico, October 2015.

9. *Mini-course: An introduction to the topology of singularities*, at the *School of algebraic geometry, commutative algebra and singularities.* Zacatecas, Mexico, November 2015.

10. *On the boundary of the Milnor fiber of non-isolated singularities,* at the *Workshop on Singularities in geometry, topology, foliations and dynamics.* Merida, Mexico, December 2014.

11. *Lê's Polyhedron and the boundary of the Milnor fiber of non-isolated singularities,* at the *2th Franco-Japanese-Vietnamese Symposium On Singularities.* Sapporo, Japan, August 2014.

12. *The degeneration of the boundary of the Milnor fiber to the link of complex and real non-isolated singularities*, at the *Brazil-Mexico 1st Meeting on Singularities.* Queretaro, Mexico, August 2013.

13. *On the boundary of the Milnor fiber of real singularities*, at the conference *Topology and Geometry of Singular Spaces.* Marseille, France, November 2012.

14. *The boundary of the Milnor fiber of complex and real non-isolated singularities*, at the *12th Workshop on Real and Complex Singularities.* São Carlos, Brazil, July 2012.

Member of Grad Examination Boards

1. PhD thesis final defense, Mauri Pereira da Silva, *On Milnor classes of constructible functions*, Federal University of Paraíba, 2019.

2. Master's thesis final defense, Thiago de Paiva Souza, *An introduction to simplicial intersection homology*, Federal University of Paraíba, 2019.

3. PhD thesis final defense, Rafaella de Souza Martins, *On the topology of the Milnor fibrations*, University of São Paulo, 2018.

4. Master's thesis final defense, José Leôncio Castelo Branco Júnior, *Stiefel-Whitney classes*, Federal University of Paraíba, 2018.

5. PhD qualification exam, Camila Sibelle Marques da Silva, *Fibration theorems for real singularities*, Federal University of Paraíba, 2017.

6. PhD qualification exam, Jonathas Phillipe de Jesus Almeida, *Singularities of analytic sets*, Federal University of Paraíba, 2017.

7. Master's thesis final defense, Camila Sibelle Marques da Silva, *The Milnor-Lê fibration theorem*, Federal University of Paraíba, 2016.

8. PhD thesis final defense, Rodrigo Mendes Pereira, *Metric geometry and topology of germs of algebraically parametrized surfaces,* Federal University of Ceará, 2016.

9. PhD thesis final defense, Joserlan Perote da Silva, *Existence of moduli for Holder equivalence of analytic functions,* Federal University of Ceará, 2016.

10. Master's thesis final defense, Breno da Silva Cardim, *Plane curves: a vision for the high school math teaching*, Federal University of Paraíba, 2014.

11. PhD qualification exam, Joserlan Perote da Silva, *Existence of moduli for Holder equivalence of analytic functions*, Federal University of Ceará, 2013.

12. Master's thesis final defense, Laís da Silva Oliveira, *Real and complex analytic singularities*, Federal University of Paraíba, 2013.

Member of Undergrad Examination Boards

1. Final Monograph, Hamilton Torres Holmes, *Some reflexions on the teaching of trigonometry*, Federal University of Paraíba, 2017.

2. Final Monograph, Douglas Magno Gomes de Lima, *Lebesgue's dominated convergence theorem*, Federal University of Paraíba, 2017.

3. Final Monograph, Josenildo da Silva, *Liouville's theorem and the first transcendental numbers*, Federal University of Paraíba, 2017.

4. Final Monograph, Cássio Anderson Feitosa, *A brief introduction to algebraic topology*, Federal University of Paraíba, 2017.

5. Final Monograph, Thiago de Paiva Souza, *Vector bundles and integrability of vector fields*, Federal University of Paraíba, 2017.

6. Final Monograph, Aline Laiane Pereira Leite, *An introduction to ordinary differential equations*, Federal University of Paraíba, 2016.

7. Final Monograph, Ivan Félix da Silva, *A proposal of mathematics teaching with games support*, Federal University of Paraíba, 2016.

8. Final Monograph, José de Souza Ulisse da Costa, *Some considerations on the teaching of financial mathematics*, Federal University of Paraíba, 2016.

9. Final Monograph, Rubicely Francisco do Nascimento, *Existence, unicity and continuous dependence in relation to initial data of solutions of ordinary differential equations*, Federal University of Paraíba, 2013.

Conference Organization

1. *5th Brazilian Northeastern Meeting on Singularities*. João Pessoa, Brazil, 2019.

2. *Math Summer School for Grad Students.* João Pessoa, Brazil, 2018.

3. *4th Brazilian Northeastern Meeting on Singularities*. João Pessoa, Brazil, 2017.

4. *Brazil-Mexico Third Meeting on Singularities*. Cuernavaca, Mexico, 2017.

5. *Thematic section Holomorphic Foliation and Singularity Theory*, in the *2nd Brazilian Congress of Young Researchers in Pure and Applied Mathematics*. Campinas, São Paulo, 2016.

6. *3rd Brazilian Northeastern Meeting on Singularities*. Salvador, Brazil, 2015.

7. *Brazil-Mexico Second Meeting on Singularities*. Salvador, Brazil, 2015.

8. *10th Mini Workshop on Singularities, Geometry and Differential Equations.* Fortaleza, Ceará, 2015.

9. *Math Summer School for Grad Students.* João Pessoa, Brazil, 2014.

10. *13th International Workshop on Real and Complex Singularities*. São Carlos, Brazil, 2014.

11. 9*th Mini Workshop on Singularities, Geometry and Differential Equations.* São Carlos, Brazil, 2013.

12. *Math Week.* João Pessoa, Brazil, 2013.

13. *2nd Brazilian Northeastern Meeting on Singularities.* João Pessoa, Brazil, 2013.

Grants

2019	Scientific Meeting: 5th Brazilian Northeastern Meeting on Singularities (ENSINO). Supported by the “Coordenação de Aperfeiçoamento de Pessoa de Nível Superior (CAPES)”.
2013 - 2016	Research Grant: *Topology of Real and Complex Varieties with non-isolated singularity.* Members: Aurélio Menegon Neto (Coordinator) / Javier Fernandez de Bobadilla / José Seade. Supported by “Conselho Nacional de Desenvolvimento Científico e Tecnológico” (CNPq - Brazil) / “Projeto Universal”.

2014	Summer School: 2014 Math Summer School of the UFPB. Supported by the “Coordenação de Aperfeiçoamento de Pessoa de Nível Superior (CAPES)”.
2013	Traveling Grant. Supported by the “Coordenação de Aperfeiçoamento de Pessoa de Nível Superior (CAPES)”.

Academic Boards

2019 - present	Council member at the Mathematics Course Collegiate.
2017 - 2018	Council member at the Production Engineering Course Collegiate.
2015 - 2015	Member of the Master’s Program admissions committee.
2013 - present	Natural member of the Math Postgrad Program Collegiate.
2013 - present	Natural member of the Mathematics Department Collegiate.