

CURRICULUM VITAE
for
María Amelia Salazar

PERSONAL INFORMATION

Full name: María Amelia Salazar

Date and place of birth: 29 September 1983, Manizales Colombia.

Home address: Rua Candido Mendes 839, Rio de Janeiro, RJ, 20241-220, Brazil

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EMPLOYMENT

Assistant professor,
Universidad Federal Fluminense (UFF),
Departamento de Matemática Aplicada,
Niteroi, RJ, Brazil,
July 2017 to present

ACADEMIC BACKGROUND

Pós-Doutorado de Excelência,
IMPA,
Rio de Janeiro, Brazil,
September 2014 to July 2017

Visiting position,
Max Planck Institute for Mathematics,
Bonn, Germany,
January 2014 to August 2014

Visiting position (DevMath-CRM),
Centre de Recerca Matemàtica (CRM),
Barcelona, Spain,
September 2013 to December 2013

Visiting position,
Instituto Nacional de Matemática Pure e Aplicada (IMPA),
Rio de Janeiro, Brazil,
June to August, 2013

Ph.D. Mathematics, under the supervision of Prof. Marius Crainic,
Utrecht University
Utrecht, The Netherlands
January 2009 to May 24, 2013

Masterclass in Mathematics. Aspects of Calabi-Yau geometries.
Utrecht University,
Utrecht, The Netherlands
Sept. 2008 to July 2009

M.Sc. Mathematics, *Magna Cum Laude*, under the supervision of Prof. Bernardo Uribe
Universidad de los Andes
Bogotá Colombia
Sept. 2006 to Sept. 2008

B.Sc. Mathematics, *Magna Cum Laude*
Universidad Nacional de Colombia, sede Medellín
Medellín Colombia,
Jan. 2002 to March 2007

AWARDS AND HONORS

- Scholarship for Art and Science, awarded by the Fundación Mazda (<http://www.mazda.com.co/section/show/id/19>). 2007-2008
- Merit Award. Facultad de Ciencias. Universidad Nacional de Colombia, sede Medellín. Years 2002, 2003, 2004, 2005, 2006. Full fellowships for years 2002, 2003, 2004, 2005 and 2006 awarded by the university to the student with the highest degrees in the Faculty of Science in the semester
- Andres Bello Diploma, year 2001, awarded by the Ministry of National Education and ICFES, to the students with the highest degrees in the high school State Final Test

TEACHING EXPERIENCE

- Lecturer in the PhD level course "Morse Theory". IMPA, 2016
- Lecturer in the master level course "Differential Geometry". IMPA, 2014.
- Teaching assistant of several undergraduate courses in Mathematics (Topology, Analysis, Linear Algebra, Group Theory, Galois Theory). Utrecht University. 2009-2012
- Instructor for several undergraduate courses in Mathematics (Vector calculus, Linear Algebra, Differential Calculus). Universidad de los Andes. 2007-2008
- Instructor for several undergraduate and graduate courses in Mathematics (Analytic geometry, Differential equations, Linear Algebra, Number theory). Universidad Nacional de Colombia, sede Medellín. 2002-2007

LANGUAGES

Spanish (native), English (fluent), Portuguese (fluent)

LIST OF PUBLICATIONS

- Marius Crainic, María Amelia Salazar, Ivan Struchiner. *Multiplicative forms and Spencer operators*. Mathematische Zeitschrift, 2015.
- Marius Crainic, María Amelia Salazar. *Jacobi structures and Spencer operators*. Journal de Mathématiques Pures et Appliquées, 2015.

- María Amelia Salazar, Daniele Sepe. *Contact isotropic realisations of Jacobi manifolds via Spencer Operators*. SIGMA 13 (2017), 033, 44 pages. arXiv:1406.2138v1, 2017.
- Alejandro Cabrera, Ioan Marcuț, María Amelia Salazar. *A construction of local groupoids using Lie algebroid sprays*, 2016. arXiv:1703.04411, 2017.
- Francesco Cattafi, Marius Crainic, María Amelia Salazar. *From PDEs to Pfaffian bundles*. (In preparation)
- Cornelia Vizman, Adara M. Blaga, María Amelia Salazar. *Contact dual pairs*. (In preparation)

TALKS

- Geometry seminar, The University of Hong Kong, Hong Kong, China 2017. *An explicit integration of Lie algebroids*.
- Encuentro de Topología, Geometría y teoría de representaciones. Universidad Nacional, Medellin, Colombia, July 2016. *Multiplicative forms and Spencer operators*.
- V Congreso Latinoamericano de Matemáticas. Universidad del Norete, Barranquilla, Colombia, July 2016. *An explicit integration of Lie algebroids*.
- Workshop on the Geometry of Lie Pseudogroups, São Paulo, Brazil, June 2016. *Pfaffian groupoids and Spencer operators*.
- Mini-Workshop em Geometria Simplética Escola de Verão do IM-UFRJ, Rio de Janeiro, Brazil, 2016. *A construction of Local groupoids using Lie algebroid sprays*.
- First joint meeting Brazil-Spain in Mathematics, Fortaleza, Brasil, December 2015. *Integral projective structures*.
- Geometry seminar, UFRJ, Rio de Janeiro, Brazil, October, 2015. *Contact isotropic realisations of Jacobi manifolds*.
- XX Congreso Colombiano de Matemáticas, Universidad Nacional, Manizales, Colombia, 2015. *Multiplicative structures: local and global integration*.
- III Workshop on Poisson Geometry, UNICAMP, Campinas, Brazil, June, 2015. *Spray Groupoids*.
- I Congreso Brasileiro de Jovens Pesquisadores em Matemática Pura e Aplicada, USP, São Paulo, Brazil, December 2014. *Contact Isotropic Realisations of Jacobi manifolds*.
- Seminario Simplectico do Rio, IMPA, Rio de Janeiro, Brazil, October, 2014. *About multiplicative structures on Weinstein groupoids*.
- Colloquium, Max-Planck Institute, Bonn, Germany, 2014. *Jacobi structures*
- Differential geometry seminar, Universite Libre de Bruxelles, Brussels, January 7, 2014. *Contact isotropic realizations*.
- Geometry in Lisbon seminar, IST, Lisbon, January 14, 2014. *Contact isotropic realizations*.
- Exterior differential systems and Lie theory, workshop and conference, Fields Institute, Toronto, December 10, 2013. *Pfaffian groupoids*
- Seminar on Geometry and Dynamics, CRM, Barcelona, October 31, 2013. *Jacobi structures and Spencer operators*.
- UNICAMP, Campinas, Brazil, July 23, 2013. *Integrability of Jacobi brackets*.
- Mathematical-Physics seminar. IMPA, Rio de Janeiro, Brazil, June 10, 2013. *Pfaffian groupoids*.
- Mathematical-Physics seminar. IMPA, Rio de Janeiro, Brazil, June 17, 2013. *Jacobi and contact structures 1*.
- Mathematical-Physics seminar. IMPA, Rio de Janeiro, Brazil, July 1, 2013. *Jacobi and contact structures 2*.

- Geometry seminar. University of Sao Paulo, Brazil, July 1, 2013. *Integrability of Jacobi structures*.
- Geometry seminar. UNICAMP, Campinas, Brazil, August, 2013. *TBA*.
- Staff colloquium. Utrecht University, The Netherlands, April 18, 2013. *Pfaffian groupoids*.
- Higher Structures along the lower Rhine II. Nijmegen, The Netherlands, December 6 and 7, 2012. *Multiplicative forms and Spencer operators*.
- Séminaire Borel, Winter School in Mathematical Physics. Les Diablerets, Switzerland. January 31-February 5, 2010. *About the Cartan form on Lie groupoids*.

THESES

- *Pfaffian groupoids*. May 2013. PhD Thesis. Supervised by Prof Marius Crainic. University of Utrecht.
- *Examples of Symplectic Realizations*. 2009. Masterclass thesis in Mathematics. Supervised by Prof. Marius Crainic. University of Utrecht.
- *Estructura de BV-álgebra en el espacio de lazos libres (BV-algebra structure on the free loop space)*, 2008. Master thesis in Mathematics. Supervised by Prof. Bernardo Uribe and Prof. Eric Backelin. Universidad de los Andes. Bogotá
- *El grado de un mapeo y algunas aplicaciones (Functions degree and some applications)*, 2006. Undergraduate thesis in Mathematics. Supervised by Prof. Carlos Mario Parra. Universidad Nacional de Colombia, sede Medellín.

OTHER COURSES

- *Poisson geometry in Mathematics and Physics*. Conference and Summers School. Urbana (USA),
- *Poisson geometry in Mathematics and Physics*. Conference and Summers School. Utrecht (The Netherlands), July- August 2012
- *Winter School in Mathematical Physics*. Les Diablerets, Conference and Winter School. Switzerland. January 31-February 5, 2010.
- *Poisson geometry in Mathematics and physics*. Conference and Summer School. Rio de Janeiro (Brazil) July-August 2010
- *Geometric and Topological Methods for Quantum Field Theory*. Summer School . Villa de Leyva (Colombia), July 2007.
- *XV Congreso Nacional de Matemáticas*. Bogotá, August 2005.

REFERENCES

Marius Crainic, Utrecht University, The Netherlands; m.crainic@uu.nl
 Henrique Bursztyn, IMPA, Brazil; henrique@impa.br