

Curriculum Vitae

Biographical data

Name:	Ioan Tiberiu Mărcuț
Place of birth:	Sibiu, Romania
Date of birth:	24/03/1984
Citizenship:	Romanian
Website:	http://www.math.ru.nl/~imarcut/index.htm
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Employment

- 9/2014-present **Assistant Professor (UD)**-tenure track, *Radboud University Nijmegen, Institute for Mathematics, Astrophysics and Particle Physics*
- 8/2013-8/2014 **J.L.Doob Research Assistant Professor**, *University of Illinois, at Urbana-Champaign*
- 9/2012-8/2013 **Postdoctoral Researcher**, *Utrecht University*
- 9/2008-8/2012 **Teaching Assistant (AiO)**, *Utrecht University*

Education

- 9/2008-2/2013 **Ph.D.**, *Utrecht University*. Thesis: *Normal Forms in Poisson Geometry*.
Advisor: Marius Crainic
- 9/2007-6/2008 **Master Class:** Quantum Groups, Affine Lie Algebras and their Applications, *Utrecht University*. Research project: *Representations of $U_q(\widehat{\mathfrak{sl}}_2)$ and the affine Hecke algebra*.
Advisor: Jasper Stokman
- 9/2003-6/2007 **B.Sc.**, *Babeş-Bolyai University, Cluj-Napoca*. Bachelor thesis: *Linear Algebraic Groups*.
Advisor: Andrei Mărcuș

Grands and Awards

- **The André Lichnerowicz prize 2014**, for contributions to Poisson Geometry.
See the *Notices of the AMS*, Nov 2014, p. 1253, or the *EMS Newsletter*, Dec 2014, p. 8.
- **Veni Grant** of the Netherlands Organisation for Scientific Research (NWO), for the project: *Deformation problems in Poisson geometry*, September 2015 - August 2018.
- **NSF Grant** DMS 14-05671, June 2014 - May 2017; after moving to the Netherlands, in September 2014, Prof. R.L.Fernandes became the principal investigator of the project.

Publications and preprints

- [1] P. Frejlich, I. Mărcuț, On dual pairs in Dirac Geometry. Submitted. [arXiv:1602.02700v2](#).
- [2] P. Frejlich, I. Mărcuț, Normal forms for Poisson maps and symplectic groupoids around Poisson transversals. Submitted. [arXiv:1508.05670](#).
- [3] P. Frejlich, I. Mărcuț, The normal form theorem around Poisson transversals. To appear in *Pacific Journal of Mathematics*. [arXiv:1306.6055](#).
- [4] M. Crainic, I. Mărcuț, Reeb-Thurston stability for symplectic foliations. *Mathematische Annalen* **363** (2015), no. 1-2, 217–235. [arXiv:1307.4363](#).
- [5] I. Mărcuț, B. Osorno Torres, Deformations of log-symplectic structures. *Journal London Mathematical Society (2)* **90** (2014), no. 1, 197–212. [arXiv:1307.3277](#).
- [6] I. Mărcuț, B. Osorno Torres, On cohomological obstructions for log symplectic structures. *Journal of Symplectic Geometry* **12** (2014), no. 4, 863–866. [arXiv:1303.6246](#).
- [7] I. Mărcuț, Deformations of the Lie-Poisson sphere of a compact semisimple Lie algebra. *Compositio Mathematica* **150** (2014), no. 4, 568–578. [arXiv:1208.2298](#).
- [8] I. Mărcuț, Rigidity around Poisson submanifolds. *Acta Mathematica* **213** (2014), no. 1, 137–198. [arXiv:1208.2297](#).
- [9] I. Mărcuț, Formal equivalence of Poisson structures around Poisson submanifolds. *Pacific Journal of Mathematics* **255** (2012), no. 2, 439–461. [arXiv:1011.5998](#).
- [10] M. Crainic, I. Mărcuț, A normal form theorem around symplectic leaves. *Journal of Differential Geometry* **92** (2012), no. 3, 417–461. [arXiv:1009.2090](#).
- [11] M. Crainic, I. Mărcuț, On the existence of symplectic realizations. *Journal of Symplectic Geometry* **9** (2011), no. 4, 435–444. [arXiv:1009.2085](#).

Supervision

- Florian Zeiser - Radboud University
PhD Thesis: *Existence of compact Poisson transversals*
Started: September 2016
- Roy Wang - Utrecht University
PhD Thesis: *PDE's with symmetry, integrable systems*
co-advisor: Marius Crainic
Started: January 2012; expected defence ceremony: Spring 2017
- Maarten Smit - Radboud University
Bachelor's Thesis: *Prime Decompositions and Geometries of 3-manifolds and the Poincaré Conjecture*, June 2015
- Roy Wang - Utrecht University
Master's Thesis: *The Nash-Moser implicit function theorem and applications*, 2012
co-advisor: Marius Crainic

Talks at Conferences, Workshops, and Seminars

- December 2016, Max Planck Institute Bonn, Germany: invited to speak at the “Higher Geometric Structures along the Lower Rhine VIII” workshop
- November 2016, Utrecht University, Netherlands: talk at the “Workshop on generalized geometry”, with the occasion of Joey v.d. Leer Duran’s graduation

- October 2016, University of Cologne, Germany: talk at the “Seminar on Symplectic and Contact Geometry”
- September 2016, Utrecht University, Netherlands: talk at the “Workshop on Lie pseudo groups”, with the occasion of Ori Yudilevich’s graduation
- July 2016, ETH Zürich, Switzerland: invited speaker at the “Poisson 2016” conference
- June 2016, West University of Timișoara, Romania: talk at the “Geometry and PDE’s” workshop
- June 2016, GQT School and Colloquium, Zeist, Netherlands: mini-course on Dirac Geometry
- April 2016, University of Münster (WWU), Germany: talk at the “Oberseminar Differentialgeometrie”
- March 2016, IMPA, Rio de Janeiro, Brazil: talk at the “Seminário Simplético Conjunto no Rio”
- March 2016, University of Illinois, at Urbana-Champaign, USA: talk at the “Symplectic and Poisson Geometry Seminar”
- January 2016, Institut Henri Poincaré, Paris, France: mini-course on Dirac Geometry at the “10th International Young Researcher Workshop on Geometry, Mechanics and Control”
- March 2015, UFRJ, Rio de Janeiro, Brazil: talk at the “Seminário Simplético Conjunto no Rio”
- March 2015, University of Illinois, at Urbana-Champaign, USA: talk at the “Symplectic and Poisson Geometry Seminar”
- November 2014, ICMAT, Madrid, Spain: invited speaker at the “New trends in generalized geometry and Poisson geometry” workshop
- November 2014, GQT School and Colloquium, Zandvoort, Netherlands: talk at the GQT Colloquium
- August 2014, University of Illinois at Urbana-Champaign, USA: invited speaker at the “Poisson 2014” conference
- May 2014, Toronto University, Canada: gave a mini-course “Linearization problems around symplectic leaves”
- April 2014, University of Notre Dame, USA: talk at the “Felix Klein Seminar”
- February 2014, University of São Paulo, Brazil: gave a week long mini-course on Poisson geometry

- October 2013, Washington University in St. Louis, USA: invited speaker at the AMS Sectional Meeting, Special Session on Groupoids in Analysis and Geometry
- September 2013, Temple University, Philadelphia, USA: speaker at the “Gone Fishing” workshop on Poisson geometry
- June 2013, Imperial College London, UK: talk at the seminar of the group of Prof. Darryl Holm
- December 2012, Radboud University Nijmegen, Netherlands: invited to speak at the “Higher Geometric Structures along the Lower Rhine II” workshop

Collaborators

- Iakovos Androulidakis, National and Kapodistrian University of Athens, Greece
- Paolo Antonini, University of Trieste, Italy
- Alejandro Cabrera, Universidade Federal do Rio de Janeiro, Brazil
- Marius Crainic, Utrecht University, Netherlands
- Rui Loja Fernandes, University of Illinois, at Urbana-Champaign, USA
- Melinda Lanius, University of Illinois, at Urbana-Champaign, USA
- Pedro Frejlich, Pontifical Catholic University of Rio de Janeiro, Brazil
- Boris Osorno Torres, De Nederlandsche Bank, Netherlands
- Maria-Amelia Salazar, IMPA, Brazil
- Roy Wang, Utrecht University, Netherlands

Organization

- Co-organizer with Steffen Sagave of the “Geometry Seminar” at Radboud University
- Member on the scientific committee of the school and conference “Poisson 2016”, Geneva and Zürich, June 27 – July 8, 2016
- Co-organizer of the workshops: “Higher geometric structures along the Lower Rhine VII and VIII”
- Member of the local organizing committee for the school and conference “Poisson 2012”, Utrecht, July 23 – August 3, 2012

Reviewer for the Journals

Journal of Symplectic Geometry, Pacific Journal of Mathematics, Letters of Mathematical Physics, Bulletin of the London Mathematical Society, International Mathematics Research Notices, SIGMA (Symmetry, Integrability and Geometry. Methods and Applications), Journal of Geometric Mechanics, Differential Geometry and Its Applications

Teaching

- *Introduction to Manifolds*, fall 2014, 2015 and 2016, Radboud University, for which I developed lecture notes
- *Calculus 4*, spring 2015 and 2016, Radboud University
- *Euclidean Geometry*, spring 2014, University of Illinois at Urbana-Champaign
- *Basic Discrete Mathematics*, fall 2013, University of Illinois at Urbana-Champaign