

CURRICULUM VITAE.

Surname: **Parusiński**

Given Names: **Adam Włodzimierz**

Born : 12/03/1959 Gdańsk, Poland

Nationality: French and Polish

Professional address:

Laboratoire J. A. Dieudonné, UMR 7351 CNRS, Université Côte d'Azur,

Parc Valrose, 06108 Nice Cedex 02, France

tel. (33) 4 92 07 64 85, fax. (33) 4 93 51 79 74,

e-mail: adam.parusinski@univ-cotedazur.fr, web: <https://math.univ-cotedazur.fr/~parus/>

Position: Full Professor (Professeur de classe exceptionnelle)

Area of Research: Singularity Theory and its Applications.

Education

1982 MA in Mathematics (with honours), University of Gdańsk, Poland

1987 PhD in Mathematics (with honours), Jagiellonian University at Cracow, Poland

Thesis: Lipschitz stratification of semi-analytic sets. Advisor: Stanisław Łojasiewicz

Professional appointments

1982-1988 assistant, University of Gdańsk, Poland

1988-1990 assistant professor (adiunkt), University of Gdańsk, Poland

on leave, Humboldt post-doc, MPI Bonn, host professor F. Hirzebruch

1990-1992 assistant professor, University of Georgia, Athens GA, USA

1992-1995 lecturer, University of Sydney, Australia

1995-2009 Professor, Université d'Angers, France

since 2009 Professor, Université Côte d'Azur (former Université Nice Sophia Antipolis)

Major professional achievements.

Proof of Gradient Conjecture of R. Thom, Annals of Mathematics 2000, joint with K. Kurdyka and T. Mostowski.

Proof of Whitney Fiberings Conjecture, Advances of Mathematics 2017, joint with L. Paunescu.

Proof of Strong Sard Conjecture for sub-Riemannian structures on 3-dimensional analytic manifolds, Inventiones Mathematicae 2022, joint with A. Belotto da Silva, A. Figalli and L. Rifford.

Major Responsibilities

- Associate Editor, Journal of Singularities

- 2019-2022 president of the CSP (Conseil Scientifique Provisoire) of the Department of Mathematics, Nice

- 2014-2017 Head of the French of Research Group in Singularity Theory, GDR Singularités et Applications, CNRS unit 2945,

- 2004-2007, Department Head (Directeur de l'UMR 6093, Angers),

- 2004-2007, Elected member of the CNU (Conseil National des Universités) Section 25, Mathématiques,

Organisation of meetings (since 2015)

Real Analytic Geometry and Trajectories of Vector Fields, CIRM Luminy, June 8-12, 2015

Atelier de Jeunes Chercheurs en Singularités, Nice, 25-30 avril 2016

Singularities in real and complex geometry, Satellite workshop of MEGA 2017, Nice, June 16, 2017.

Fifth International Workshop on Zeta Function in Algebra and Geometry, Nice 2020, twice postponed, finally taking place 2-6 May 2022

Recent international invitations

30/10/22-19/11/22 - Oberwolfach, Research in Pairs

01/09/24-31/10/24 - Sydney Mathematical Research Institut (SMRI), Sydney

01/11/24-01/12/24 - JSPS Bridge Fellowship, Tokyo

24/08/25-05/09/25 - Trento, Research in Pairs

Recent Invited Lectures

- The singular workshop, Erdős Center, Budapest, March 6-10, 2023.
- Séminaires systèmes dynamiques et géométrie, Angers, May 30, 2023
- Birational geometry and regulous functions, Le Croisic, 5 - 9 juin 2023
- Geometry, Topology and Algebra of Singular Spaces, Bucharest, 7-11 July 2023
- Geometry and Singularities - 60th anniversary of Lev Birbrair, 16-22.07.2023, Będlewo, Poland
- Course: Geometry and Analysis on semialgebraic and subanalytic sets. Trento, 28-30.08.23
- Team seminar Geometry, Chambéry, 5 octobre 2023
- Journées de Géométries Angers-Poitiers, Atelier Milnor Fibration(s), Poitiers 8-10 avril 2024
- Séminaire sur les Singularités, 21/05/2024 Paris
- INRIA, Sophia Antipolis, Séminaire de l'Equipe Aromath, 18 juin 2024
- Sydney Mathematical Research Institute (SMRI), 24 October 2024
- JARCS (Japanese-Australian Workshop on Real and Complex Singularities), Tokyo, 07/11/24
- Saitama University, Tokyo, November 25, 2024
- Paris, IMR-PRG, Géométrie et Théorie des Modèles (GTM), 13 décembre 2024
- Tame geometry and extensions of functions, Pawłucki 70, Kraków, June 23-27, 2025.
- Singularities, Oberwolfach, 28 September - 3 October 2025
- Real Algebraic Geometry and Interactions October 6-10, 2025, Nice
- INRIA, Sophia Antipolis, Séminaire de l'Equipe Aromath, 28 octobre 2025

Ph.D. students:

Ould Mohamed Abderrahmane Yacoub, after name change, Yacoub Ould Moine,

Professor at University of Nouakchott, Member of Parliament and Minister of Higher Education and Scientific Research of Republic of Mauretania

Thesis: Polyèdre de Newton et trivialité en famille, defended 16/06/2000. published in J. Math. Soc. Japan Vol. 54, No. 3, 2002.

Isabelle Bonnard: college teacher (professeur agrégé aux classes préparatoires à Rennes)

Thesis: Fonctions algébriquement constructibles et signatures de formes quadratiques (joint supervision with C. Andradas, Madrid), defended 7/12/2000, published in J. Reine Angew. Math. **526** (2000), 61–88.

David Alessandrini: software developer in Rennes.

Thesis: Les singularités des polynômes à l'infini et les compactifications toriques, defended 11/06/2002, published in Tohoku Math. J. (2) **63** (2011), no. 1, 1–19,

Goulwen Fichou: Assistant Professor (Maître de Conférences) at University of Rennes

Thesis: Nombres de Betti virtuels des ensembles symétriques par arcs et équivalence de Nash après éclatements, defended 28/11/2003, published in Compositio Math. **141** (2005)).

(F. Priziac, R. Nguyen, T. Limoges, Y. Bidet, F. Bernard were Ph.D. students of G. Fichou)

Alexandre Sine, college teacher in Paris area,

Thesis: "Nombres de Betti équivariants et leurs applications" defended 13/12/2007

Thierry Limoges: now college teacher in Maçon, France.

Thesis: "Structures produits sur la filtration par le poids des variétés algébriques réelles"

(joint supervision with G. Fichou) defended 10/03/2015, published Ann. Inst. Fourier (Grenoble) **65** (2015), no. 5, 2235–2271. (joint paper with F. Priziac)

Jean-Baptiste Campesato: Assistant Professor (Maître de Conférences) at Université d'Angers

Thesis: "Une fonction zêta motivique pour l'étude des singularités réelles", defended 11/12/2015, published in Nagoya Mathematical Journal, volume 223, issue 01 (2016), pp. 162–194 and Annales Institut Fourier **67** (2017), pp. 143–196.

M'hammed Oudrane: postdoc in Artificial Intelligence, Orléans/CNRS Rennes

Thesis: "Regular projections, Lipschitz structure of definable sets and Sobolev sheaves", defended May, 11, 2023, published in Ann. Polon. Math. **130** (2023), 63–83 DOI: 10.4064/ap211206-3-1