

ROBERTO GIMÉNEZ CONEJERO

Alfréd Rényi Institute of Mathematics
Reáltanoda u. 13-15
HU 1053 Budapest, Hungary
(+34) 649 217 483
roberto.gimenez@uv.es
ORCID: [0000-0003-1059-3818](https://orcid.org/0000-0003-1059-3818)

EDUCATION

Ph.D in Mathematics

Thesis: *Singularities of germs and vanishing homology* 2017–2021
Advisor: J. J. Nuño-Ballesteros
Universitat de València, Valencia, Spain

M.Sc. in Mathematics and Applications

Thesis: *Vanishing cycles for analytic maps.* 2016–2017
External advisor: J. J. Nuño-Ballesteros. Internal tutor: O. Villamayor
Universidad Autónoma de Madrid, Madrid, Spain

B.Sc. in Mathematics

Thesis: *Maps from the plane to the plane and a theorem of Haefliger.* 2012–2016
Advisor: R. Oset Sinha
Universitat de València, Valencia, Spain

DISTINCTIONS AND GRANTS

Vicent Caselles prize 2023
Spanish Royal Society of Mathematics (RSME) and BBVA bank

Rényi Postdoctoral Fellowship 2021–now
Alfréd Rényi Institute of Mathematics

Predoctoral grant 2017–2021
Ministerio de Ciencia, Innovación y Universidades Grant FPU16/03844

M.Sc. Grant 2016–2017
of the Department of Mathematics of *Universidad Autónoma de Madrid*

Bachelor's Degree Excellence Award 2016
Universitat de València

Overall classification of the Bachelor's Degree 2016
9.76/10 and 3.76/4

B.Sc. Grant 2012–2016
Ministerio de Educación y Formación Profesional General Grants (4 in total)

Collaboration Internship Grant 2015–2016
Ministerio de Educación y Formación Profesional

Severo-Ochoa-ICMAT grant: Introduction to research 2016
Instituto de Ciencias Matemáticas, Madrid

PUBLICATIONS

The image Milnor number and excellent unfoldings (w/ J.J. Nuño-Ballesteros),
Q. J. Math., 2022, DOI: [10.1093/qmath/haab019](https://doi.org/10.1093/qmath/haab019)

Singularities of mappings on ICIS and applications to Whitney equisingularity (w/ J.J. Nuño-Ballesteros),
Adv. Math., 2022, DOI: [10.1016/j.aim.2022.108660](https://doi.org/10.1016/j.aim.2022.108660)

Thom condition and monodromy (w/ Lê Dũng Tráng and J.J. Nuño-Ballesteros),
Rev. R. Acad. Cienc. Exactas Fís. Nat. Ser. A Mat. RACSAM, 2022, DOI: [10.1007/s13398-022-01353-y](https://doi.org/10.1007/s13398-022-01353-y)

A weak version of the Mond conjecture (w/ J.J. Nuño-Ballesteros),
Collect. Math., 2023, DOI: [10.1007/s13348-023-00411-x](https://doi.org/10.1007/s13348-023-00411-x)

SENT MANUSCRIPTS

Isotypes of ICIS and images of deformations of map germs,
[arXiv:2207.05196](https://arxiv.org/abs/2207.05196)

A note on complex plane curve singularities up to diffeomorphism and their rigidity (w/ A. Fernández-Hernández),
[arXiv:2309.12958](https://arxiv.org/abs/2309.12958)

Signature of the Milnor fiber of parametrized surfaces (w/ G. Pintér),
[arXiv:2401.14951](https://arxiv.org/abs/2401.14951)

PRESENTATIONS

COURSES

- | | |
|---|-----------|
| Curve singularities and their deformations (TA session)
<i>Winter school in singularities and low-dimensional topology</i> , Rényi Institute | 2023 |
| Projective geometry (in Spanish) (videos)
<i>Summer school SEMF 2020</i> , On-line | 2020 |
| Introduction to topology (in Spanish)
<i>SEMF and Faculty of Physics course</i> , <i>Universitat de València</i> | 2016 |
| Simplicial and singular homology (in Spanish), 20h
Extracurricular seminar, Department of Geometry and Topology, <i>Universitat de València</i> | 2015–2016 |

INVITED TALKS

- | | |
|---|------|
| Complex curve singularities modulo smooth diffeomorphism
<i>Spanish Topology Meeting</i> , Alicante, Spain | 2023 |
| Halfway towards the Mond conjecture
<i>The singular workshop</i> , Budapest, Hungary | 2023 |
| Computing signatures of nearby fibres of parametrized complex surfaces
<i>VI Congreso de jóvenes investigadores de la RSME (Topology session)</i> , León, Spain | 2023 |
| Computing a difficult invariant of holomorphic map germs
<i>VI Congreso de jóvenes investigadores de la RSME (Singularities session)</i> , León, Spain | 2023 |
| Towards Mond's conjecture
<i>17th International Workshop on Real and Complex Singularities</i> , São Carlos, Brazil | 2022 |
| Hazañas y enigmas de los gérmenes de aplicaciones holomorfas (in Spanish)
<i>Special hybrid workshop for PhD students in singularities</i> , Madrid, Spain | 2021 |

CONTRIBUTED AND SEMINAR TALKS

Complex curve singularities modulo smooth diffeomorphism <i>7th International Workshop on Singularities in Geometry and applications</i> , Fortaleza, Brazil	2023
Complex curve singularities modulo smooth diffeomorphism <i>1st Budapest – Cluj Meeting in Singularities and Beyond</i> , Cluj-Napoca, Romania	2023
Signatures of Milnor fibers <i>Algebraic Geometry and Differential Topology Seminar</i> , Rényi Institute, Budapest, Hungary	2023
Feats and mysteries of holomorphic map germs (video) <i>Algebraic Geometry and Differential Topology Seminar</i> , Rényi Institute, Budapest, Hungary	2022
Monodromía de gérmenes de funciones analíticas sin puntos fijos <i>IX Encuentro de jóvenes topólogos</i> , Sevilla, Spain	2021
Monodromy of germs of analytic functions without fixed points (video) <i>Iberoamerican Webinar of Young Researchers in Singularity Theory and related topics</i> , On-line	2021
Monodromy of germs of analytic functions without fixed points (video) <i>16th International Workshop on Real and Complex Singularities</i> , São Carlos, Brazil	2020
On Whitney equisingular unfoldings of corank 1 map germs <i>V Congreso de Jóvenes Investigadores Castelló 2020</i> , Castellón, Spain	2020
Monodromy of germs of analytic functions without fixed points <i>3rd BYMAT Conference</i> (Bringing Young Mathematicians Together), Valencia, Spain	2020
On Whitney equisingular unfoldings of corank 1 map germs <i>6th International Workshop on Singularities in Generic Geometry and Applications</i> , Valencia, Spain	2019
(...)	
A weak version of Mond's Conjecture for corank 1 maps and applications <i>Congreso Bienal de la Real Sociedad Matemática Española 2019</i> , Santander, Spain	2019
(...)	

POSTERS

A weak version of Mond's Conjecture for corank 1 maps and applications <i>15th International Workshop on Real and Complex Singularities</i> , São Carlos, Brazil	2018
--	------

OTHER MERITS

TEACHING EXPERIENCE

Universitat de València: 180 h Valencia, Spain	2018–2020
Innovation in education article <i>Comunidades de práctica predoctorales: Diez años del Seminari Predoc</i> (w/ E. Cosme Llópez, et al.) IN-RED 2022 https://doi.org/10.4995/INRED2022.2022.15977	2022
Budapesti Műszaki és Gazdaságtudományi Egyetem: 28 h Budapest, Hungary	2023

RESEARCH

Extracurricular Internship , <i>Ingenia-Telecom S.L.</i> (180h) Performing R&D in machine learning.	2015
Collaboration Internship , Department of Geometry and Topology, <i>Universitat de València</i> Learning Homology Theory and giving a seminar related to it. Supervisor: R. Oset Sinha.	2015–2016
Introduction to research grant , <i>Instituto de Ciencias Matemáticas</i> (Madrid)	2016

EXPERIENCE IN ORGANISATION OF EVENTS

6th International Workshop on Singularities in Generic Geometry and Applications	2019
IV SEMF's winter symposium	2019
VIII SEMF's summer school	2020
Predoc seminar in Universitat de València, Faculty of Mathematics	2019–2021

DISSEMINATION WORK / POPULAR SCIENCE

What does <i>Mathematics</i> mean? (in Spanish) Talk in Blasco Ibáñez Higschool, in Cullera (Valencia), Spain	2016
<i>Una oca en mi café</i> Cycle of talks (in Spanish) (videos) Organizer of this cycle of talks, Valencia, Spain	2018
About brains and maths (in Spanish) (videos) In the cycle of talks <i>Una oca en mi café</i> , Valencia, Spain	2018
Noosfera interview (in Spanish) <i>La Razón's</i> podcast <i>Noosfera</i> (link), Spain	2021