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Positions

- **Assistant professor** Utrecht, Netherlands
Universiteit Utrecht April 2020 – present
- **NWO Veni Fellow** Utrecht, Netherlands
Universiteit Utrecht October 2018 – present
- **Postdoctoral researcher** Utrecht, Netherlands
Universiteit Utrecht June 2017 – September 2018
 - Funded by the NWO Vici grant of Prof. Marius Crainic

Education

- **PhD. in Mathematics** Madrid, Spain
ICMAT, Universidad Autónoma de Madrid September 2013 – June 2017
 - Thesis title: “Engel structures and symplectic foliations”
 - Advisor: Francisco Presas
- **Master degree in Mathematics** Madrid, Spain
Universidad Autónoma de Madrid September 2012 – June 2013
 - Thesis title : “Symplectic Lefschetz Pencils”
 - Advisor: Francisco Presas
- **Bachelor degree in Mathematics and Computer Science** Madrid, Spain
Universidad Autónoma de Madrid September 2007 – June 2012

Research publications

- A. del Pino, T. Vogel. *The Engel-Lutz twist and overtwisted Engel structures*. To appear in G&T.
- R. Casals, A. del Pino, F. Presas. *Loose Engel structures*. *Compos. Math.* 156(2) (2020), 412-434.
- R. Casals, A. del Pino. *Classification of Engel knots*. *Math. Ann.* 371(1-2) (2018), 391-404.
- A. del Pino. *Tight contact foliations that can be approximated by overtwisted ones*. *Archiv der Mathematik*, 110.4 (2018), 413-419.
- A. del Pino. *On the classification of prolongations up to Engel homotopy*. *Proc. Amer. Math. Soc.* 146 (2018) 891-907.
- A. del Pino, F. Presas. *Flexibility for tangent and transverse immersions in Engel manifolds*. *Rev. Mat. Comp* 32(1) (2019), 215-238.
- A. del Pino, F. Presas. *The foliated Weinstein conjecture*. *Int. Math. Res. Not.* 16 (2018), 5148-5177.
- R. Casals, J.L. Pérez, A. del Pino, F. Presas. *Existence h-Principle for Engel structures*. *Invent. Math.* 210 (2017), 417-451.
- D. Peralta-Salas, A. del Pino, F. Presas. *Foliated vector fields without periodic orbits*. *Isr. J. Math.* 214 (2016), 443-462.
- D. Martínez Torres, A. del Pino, F. Presas. *Transverse geometry of foliations calibrated by non-degenerate closed 2-forms*. *Nag. Math. J.* 231 (2018), 115-127.

- R. Casals, A. del Pino, F. Presas. *h-Principle for Contact Foliations*. Int. Math. Res. Not. 20 (2015), 10176-10207.

Expository writing

- A. del Pino. *Topological aspects in the study of tangent distributions*. Textos de Matemática. Série B [Texts in Mathematics. Series B], 48. Universidade de Coimbra, Departamento de Matemática, Coimbra, 2019.

Preprints

- L. Dahinden, A. del Pino. *Introducing sub-Riemannian and sub-Finsler Billiards*. arXiv:2011.12136
- A. del Pino, T. Shin. *Microflexibility and local integrability of horizontal curves*. arXiv:2009.14518

Supervision

- **Aaron Gootjes-Dreesbach** Universiteit Utrecht
PhD student: "Non-local differential relations" *Starting March 2021*
- **Francisco Javier Martínez Aguinaga** Universidad Complutense de Madrid
PhD student: "Knots tangent to bracket-generating distributions". *September 2017 - present*
Coadvisor: Francisco Presas
- **Lauran E. Toussaint** Universiteit Utrecht
PhD student: "Contact Structures, codimension-1 Symplectic Foliations". *September 2016 - March 2020*
Coadvisor: Marius Crainic
- **Bas de Pooter** Universiteit Utrecht
Master student: "Differential relations with delay" *October 2020 - July 2021*
- **Jan Denkers** Universiteit Utrecht
Master student: "Multijets and non-local h-principles" *February 2020 - February 2021*
- **Lotte Bruijnen** Universiteit Utrecht
Master student: "Filtered structures" *July 2019 - August 2020*
- **Floor ter Haar** Universiteit Utrecht
Bachelor student: "Constructing distributions in low dimensions" *August 2020 - February 2021*
- **Juri Sampieri Bjornsson** Universiteit Utrecht
Bachelor student: "Prolongation of Semiriemannian structures" *May 2020 - February 2021*
- **Robin van de Griend** Universiteit Utrecht
Bachelor student: "Simplicial Complexes and Persistent Homology" *March 2020 - June 2020*

Conferences organised

- **Lie theory and Poisson Geometry** CIRM
Coorganisers: Ana Balibanu, Chiara Esposito, María Salazar *10-14 January 2022*
- **Young Researchers Workshop on Geometry, Mechanics, Control** Universiteit Utrecht, online
30 November - 4 December 2020
- **Topological aspects of Symplectic Foliations** Université de Lyon 1
Coorganisers: K. Niederkrueger, F. Presas *4-8 September 2017*
- **Symplectic Techniques in Hamiltonian Dynamics** ICMAT
Coorganisers: V. Ginzburg, B. Gurel, F. Presas *13-17 June 2016*

- **Junior GESTA**
Coorganisers: A. Kiesenhofer, E. Miranda, A. Planas, F. Presas

Universidad Politécnica de Cataluña
27–28 April 2016

Seminars organised

- **Dutch Differential Topology and Geometry** Amsterdam, Leiden, Utrecht
Coorganisers: F. Pasquotto, T. Rot, R. Vandervorst October 2020 - present
- **Friday Fish** Universiteit Utrecht
Coorganisers: M. Crainic, M. Mol July 2020 - present

Graduate minicourses

- **Topology of bracket-generating distributions** Universidade de Coimbra
13th International Young Researchers Workshop 6-8 December 2018
- **Engel Topology** Université de Neuchâtel
Séminaire de géométrie 12-17 March 2018
- **Wrinkling** Universidad de Barcelona
Distributions and h-principles Summer School 10-15 July 2017

Talks in conferences

- **Integral submanifolds of jet spaces** ICMAT
Workshop on Geometric Methods in Symplectic Topology 16-20 December 2019
- **Convex integration without ampleness?** Timisoara
Workshop on Contact and Poisson Geometry 1 November 2019
- **Multi-sections of jet spaces** Santiago de Compostela
XXVI Encuentro de Topología 18 October 2019
- **Bracket-generating integration** ICMAT
XXVIII International Fall Workshop on Geometry and Physics 3 September 2019
- **Wrinkled embeddings and horizontal submanifolds** Radboud Universiteit
Poisson aan de Waal 12-14 December 2018
- **Haefliger structures and the h-principle** Universiteit Utrecht
Higher geometric structures along the Lower Rhine X 20 October 2017
- **Some tight contact foliations can be approximated by overtwisted ones** KU Leuven
Pure and Applied Differential Geometry 21-25 August 2017
- **The Engel-Lutz twist and the Engel extension problem** American Institute of Mathematics
Workshop on Engel structures 21 April 2017
- **A global characterisation of flexibility for Engel structures** American Institute of Mathematics
Workshop on Engel structures 18 April 2017
- **The h-principle** Universidad Carlos III
Día ICMAT 6 May 2016
- **Fun facts about convex curves in the 2-sphere** Universidad Politécnica de Cataluña
Junior GESTA workshop 27 April 2016
- **An existence h-principle for Engel structures** Augsburg University
X CAST workshop 27 February 2016
- **Flexibility in Engel geometry. Part II** Université Libre de Bruxelles
Flexibility and contact geometry 16 December 2015

- **A look at distributions** Universidad de Murcia
8 September 2015
Royal Mathematical Society Young Researchers Meeting
- **Distributions: contact, even contact, and Engel** Universidad Complutense de Madrid
29 June 2015
4th Spanish Young Topologist Meeting
- **h -Principles in Contact Topology** Universidad de Santiago
20–23 October 2014
3rd Spanish Young Topologist Meeting
- **Donaldson techniques in Symplectic Foliations** Universidad Complutense de Madrid
22–24 September 2014
8th Workshop of Young Researchers in Mathematics 2014
- **Contact and symplectic foliations** Lorentz Center, Leiden
21–25 July 2014
Rigidity and Flexibility in Symplectic Topology and Dynamics
- **An h -principle for contact foliations** ICMAT
2–6 June 2014
GESTA workshop 2014

Talks in seminars

- **Submanifolds tangent to bracket-generating distributions** Paris
19 May 2020
Séminaire de Géométrie et Analyse Sous-riemannienne
- **What is holonomic approximation?** TU Delft
26 November 2019
Analysis colloquium
- **The role of multi-sections in the holonomic approximation problem** SISSA
22 October 2019
Geometry and Mathematical Physics seminar
- **A control-theoretic version of convex integration** Vrije Universiteit Amsterdam
25 September 2019
Colloquium
- **Submanifolds of jet spaces and wrinkling** Universität Heidelberg
17 July 2019
Symplectic Seminar
- **Convex integration and the bracket-generating condition** Universität Heidelberg
16 July 2019
Geometry Seminar
- **Distributions, submanifolds, and nilpotentisation** KU Leuven
1 March 2019
Geometry Seminar
- **Wrinkled embeddings and horizontal submanifolds of jet spaces** Universiteit Antwerpen
17 October 2018
Analysis & Geometry Seminar
- **Horizontal curves in bracket-generating distributions** Universiteit Utrecht
9 October 2018
Colloquium
- **Flexibility in Engel Topology** ICMAT
1 October 2018
Geometry seminar
- **Topology of bracket-generating distributions** Université de Neuchâtel
13 March 2018
Colloque
- **Overtwisted Engel structures** Université Libre de Bruxelles
20 February 2018
Geometry Seminar
- **Engel structures and symplectic foliations** Universidad Autónoma de Madrid
23 June 2017
Thesis defense
- **Lutz twists and extension problems** Utrecht University
6 June 2017
Friday Fish Seminar
- **Spaces of distributions** Universidad Autónoma de Madrid
11th May 2017
Thesis predefense
- **Spaces of curves and the h -principle** Universidad Complutense de Madrid
11 May 2017
PhD Seminar
- **Contact foliations** Stanford
1 May 2017
Northern California Symplectic Geometry Seminar

- **Spaces of curves and the h-principle**
Geometry and Analysis Seminar University of California, Santa Cruz
27 April 2017
- **Spaces of immersions tangent to distributions**
Oberseminar Ludwig Maximilian University, Munich
29 November 2016
- **Recent developments in Engel topology**
Friday Fish Seminar Universiteit Utrecht
18 November 2016
- **An introduction to Engel structures**
Simplectic Seminar IHP, Paris
7 October 2016
- **Open problems in Engel geometry**
Geometry Seminar Universidad de Barcelona
29 April 2016
- **h-Principle for Engel structures**
Oberseminar Ludwig Maximilian University, Munich
16 January 2015
- **Spaces of distributions and the h-Principle**
Geometry Seminar KU Leuven
17 December 2015
- **The foliated Weinstein conjecture**
Differential Topology Seminar Renyi Institute, Budapest
27 November 2015
- **h-Principle for Engel structures II**
Geometry and Topology Seminar Universidad Complutense de Madrid
13 October 2015
- **h-Principle for Engel structures I**
Geometry and Topology Seminar Universidad Complutense de Madrid
6 October 2015
- **A foliated analogue of the Weinstein conjecture**
Geometry Seminar ICMAT
5 October 2015
- **What is an Engel structure?**
Singularity Theory and Low Dimensional Topology Seminar Renyi Institute, Budapest
7 May 2015
- **Introduction to pseudoholomorphic curves**
Mathematics Junior Seminar Universidad Autónoma de Madrid
11 February 2015
- **Introduction to Floer Homology**
Mathematics PhD Seminar Universidad Complutense de Madrid
4 December 2014
- **Contact Foliations and the Weinstein Conjecture**
Geometry and Topology Seminar Universidad Complutense de Madrid
14 October 2014

Thesis committees

- **Davide Alboresi: Poisson manifolds and holomorphic curves**
Committee member Universiteit Utrecht
29 October 2018

Teaching

- **Plugs and the Seifert conjecture**
“Orientation in Mathematical Research” project Universiteit Utrecht
Fall 2020
- **What is a Lie groupoid?**
“Orientation in Mathematical Research” project Universiteit Utrecht
Fall 2020
- **Controllability of diffeomorphisms**
“Orientation in Mathematical Research” project Universiteit Utrecht
Fall 2020
- **Topologie en Meetkunde (topology and geometry)**
Lecturer. 3rd year course Universiteit Utrecht
Spring 2020
- **Introduction to foliations**
“Orientation in Mathematical Research” project Universiteit Utrecht
Fall 2019

- **Symplectic Geometry** Universiteit Utrecht
Lecturer. Mastermath course *Spring 2019*
- **Teaching in Higher Education** Universiteit Utrecht
Attending the course to build up my BKO portfolio *November 2018 - June 2019*
- **Tangent distributions** Universiteit Utrecht
“Orientation in Mathematical Research” project *Fall 2018*
- **Morse Theory** Universiteit Utrecht
Geometry Summer School *27th August 2018*
- ***h*-Principle** Universiteit Utrecht
“Orientation in Mathematical Research” project *Fall 2017*
- **Contact Topology** ICMAT
JAE Intro Summer School *11th-16th July 2016*
- **Linear Algebra II** Universidad Autónoma de Madrid
Teaching assistant. 1st year Physics *Spring 2016*
- **Algebra** Universidad Autónoma de Madrid
Teaching assistant. 1st year Computer Science *Spring 2015*
- **Mathematical Appendices (d’après V.I. Arnol’d)** ICMAT
JAE Intro Summer School *14th-18th July 2014*

Grants and honors

- **Premio Extraordinario de Doctorado 2017** Universidad Autónoma de Madrid
University prize to the best thesis in mathematics *2018*
- **NWO Veni Fellowship 2018** NWO
Three year grant awarded by the Netherlands Organisation for Scientific Research (NWO) *2018*
- **Vicent Caselles prize 2018** RSME-BBVA
National thesis prize awarded by the Spanish Royal Mathematical Society *2018*
- **La Caixa-Severo Ochoa scholarship** La Caixa - ICMAT
Grant for PhD studies *2013-2017*
- **Beca de máster del Departamento de Matemáticas** Universidad Autónoma de Madrid
Grant for master studies *2012-2013*
- **Beca de Excelencia de la Comunidad de Madrid** Comunidad de Madrid
Grant for undergraduate studies *2007-2011*