

# Tom Ferragut

## Curriculum Vitæ

University of Montpellier (IMAG)  
France  
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## Research activity

### Positions

- 11/2022 – **Guest young researcher**, University of Fribourg.  
12/2022 Working with Enrico Le Donne
- 07/2022 – **JSPS post-doc fellowship**, Kyoto University.  
10/2022 Working with Ryokichi Tanaka

### Ph.D (2018 – 2022)

- Title** **Geometry of horospherical products**
- Advisers** Jérémie Brieussel & Constantin Vernicos
- Institution** Institut Montpelliérain Alexander Grothendieck (IMAG)

## Publications

- 2022 **Geometric rigidity of quasi-isometries in horospherical products**, *University of Montpellier*.  
(Preprint: [hal-03843098](https://hal.archives-ouvertes.fr/hal-03843098))
- 2020 **Geodesics and Visual boundary of Horospherical Products**, *University of Montpellier*.  
(Preprint: [arXiv:2009.04698](https://arxiv.org/abs/2009.04698))
- 2018 **Elementary solution of an infinite sequence of instances of the Hurwitz problem**, *With Carlo Petronio, University of Pisa*.  
*Rendiconti Lincei Matematica E Applicazioni* 29(2) : 297-307. ([arXiv: 1805.00305](https://arxiv.org/abs/1805.00305))

## Education

### Diploma

- 2017 – 2018 **University of Montpellier**.  
- Master degree in Fundamental Mathematics
- 2014 – 2018 **ENS Rennes**.  
- Mathematics departement

2014 – 2017 **University of Rennes 1.**

- Master degree in Mathematics
- Bachelor degree in Mathematics

### Internships

- 2018 **About the separation profiles of graphs**, University of Montpellier.  
Under the supervision of **Jérémie Brieussel**.
- 2016 **The Hurwitz existence problem for a given branched data**, University of Pisa.  
Under the supervision of **Carlo Petronio**.
- 2015 **Optimisation of a recommendation algorithm**, INRIA, Rennes.  
Under the supervision of **Anne-Marie Kermarrec**.

### Talks

- October 2022 **Differential Topology Seminar**, *Kyoto university, Kyoto*.  
Geometry and quasi-isometry rigidity of horospherical products.
- April 2022 **Geometry and Topology Seminar**, *Bowling Green University, Ohio*.  
Sol type groups' quasi-isometries.
- November 2021 **Rencontre des jeunes chercheuses et jeunes chercheurs du GDR Platon**, *CIRM, Marseille*.  
Geodesics and Visual Boundary of Horospherical products.
- January 2021 **Strukturtheorie Seminar**, *Institut für Diskrete Mathematik, Graz*.  
"Geodesics and Visual Boundary of Horospherical products"
- January 2021 **Séminaire Darboux**, *University of Montpellier*.  
"Geodesics and Visual Boundary of Horospherical products"
- March 2020 **Dynamics and Group Geometry Early Researchers Seminar (DAGGER)**, *University of Warwick*.  
"Horospherical products of Gromov hyperbolic spaces"
- March 2020 **Bristol Junior Geometry Seminar (BRIJGES)**, *University of Bristol*.  
"Horospherical products of Gromov hyperbolic spaces"
- March 2020 **Junior Topology and Group Theory Seminar**, *University of Oxford*.  
"Horospherical products of Gromov hyperbolic spaces"
- February 2020 **Journée des doctorant.e.s**, *University of Montpellier*.  
"What if the shortest path wasn't a straight line ?"

### Responsibilities and Teaching experiences

- 2019 – 2020 Organiser of the Ph.D students seminars of the University of Montpellier.
- 2022 Tutorials (60h) - Arithmetic (Year 1)
- 2021 Tutorials (20h) - Arithmetic (Year 2)
- 2019 – 2021 Tutorials (108h) - Mathematics for Biology (Year 1)
- 2021 Tutorials (25h) - Linear Algebra (Year 1)
- 2020 Tutorials (32h) - Linear Algebra (Year 2)

- 2019 Tutorials (21h) - Statistics for Biology (Year 2)
- 2019 Tutorials (21h) - Mathematics for Chemistry (Year 1)
- 2019 CESPROMA project (32h) - Mathematics support courses for first year students (Year 1)
- 2018 Tutorials (32h) - Linear Algebra and Group Theory (Year 3)

## Languages

French Native language  
English Advanced