

# David Fisac

Université du Luxembourg - Universitat Autònoma de Barcelona | [david.fisac@uni.lu](mailto:david.fisac@uni.lu) | [Personal Page](#)

## Employment

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<b>Postdoctoral researcher</b> at Universitat Autònoma de Barcelona.	Feb 2025 – Sept 2025 (upcoming)
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## Education

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<b>Universitat Autònoma de Barcelona</b> , Grau en Matemàtiques.	Sept 2015 – June 2018
<b>Imperial College London</b> , MSc in Pure Mathematics, Under the supervision of Marie-Amélie Lawn.	Sept 2019 – Sept 2020
<b>Université du Luxembourg - Universitat Autònoma de Barcelona</b> , PhD in Mathematics, Under the co-supervision of Florent Balacheff and Hugo Parlier.	Feb 2021 – Jan 2025 (upcoming)

## Publications

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<b>A Basmajian-type inequality for Riemannian surfaces</b> , with Florent Balacheff, <a href="#">arXiv:2311.03182v1</a> .	Submitted
<b>Word-length curve counting on the once-punctured torus</b> , with Mingkun Liu, <a href="#">arXiv:2404.09372v2</a> .	Submitted

## Talks

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<b>Colloque de Géométrie</b> , Université Paris-Est Créteil, Paris.	Nov 2024
<b>2nd International AMS-UMI Joint Meeting</b> , Palermo, Sicily.	Jul 2024
<b>Hengstberger Symposium: Geometry and dynamics of surfaces beyond finite-type</b> , Heidelberg, Germany.	Jul 2024
<b>Surfaces, Manifolds and Related Topics (SMaRT)</b> , Mar 2024, Luxembourg.	Mar 2024
<b>Seminari de Geometria</b> , UAB, Barcelona.	Jan 2024
<b>Geometry, Probability and their Synergies</b> , Les Diablerets, Switzerland.	Mar 2023
<b>VI Congreso de Jóvenes Investigadores de la RSME</b> , León, Spain.	Feb 2023

## Teaching

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<b>Linear Algebra I</b> , University of Luxembourg.	2022
<b>Math Forge</b> (all-round tutoring for Mathematics BSc), University of Luxembourg.	2021-2023-2024

## Languages

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**Catalan:** native.

**Spanish:** native.

**English:** proficient.

**Italian:** proficient.

**French:** basic.

## Programming

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**Languages:** Python, C, Java.

**Mathematical programming:** Mathematica, SageMath.