

# Vicent Pallardó Julià

## Contact info

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## Education

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2021 - 2025 **PhD in Mathematics**

*Topic:* Generalization of variational models for data processing

*Advisor:* Salvador Moll

Industrial modality. Universitat de València

2021 - 2022 **MSc in Research and Specific Didactics**

Universitat de València.

2020 - 2021 **MSc in Education**

Universitat de València.

2016 – 2020 **BSc in Mathematics**

Universitat de València.

## Positions

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Mar. 2026 - present **Postdoc**

Postdoctoral Position on [BiLEARN group](#) of the SFB Project *Mathematics of Reconstruction in Dynamical and Active Models*, under the supervision of Elisa Davoli at Technische Universität Wien.

Oct. 2025 - Mar. 2026 **Postdoc**

Postdoctoral Position on [Project Part 7](#) of the SFB Project *Taming Complexity in PDEs*, under the supervision of Ilaria Perugia at Universität Wien.

Sep. 2023 - Sep. 2025 **Lecturer**

Lecturing at the Universitat de València, focused on applied mathematics courses.

Jun. 2022 - Sep. 2025 **Researcher**

Doctoral research as part of my Ph.D. program conducted at the startup [Kimera Technologies](#), focused on mathematically enhanced data structures for vectorial search systems.

Sep. 2021 - Dec. 2021 **Research Internship at Universitat de València**

Research collaboration at the Department d'Anàlisi Matemàtica, focused on the study of image segmentation models.

Feb. 2020 - Jul. 2020 **Internship at Capgemini**

Internship within the R&D department, focused on the study of human movement classifiers.

## Research

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### Articles and preprints

1. Lipschitz regularity for manifold-constrained ROF elliptic systems, *E. Cabezas-Rivas, S. Moll, V. Pallardó-Julià*, [Preprint](#)
2. Partial regularity for manifold constrained quasilinear elliptic systems, *E. Cabezas-Rivas, S. Moll, V. Pallardó-Julià*, [Nonlinear Anal.](#) 249 (2024), 113643
3. Segmentation in Measure Spaces, *S. Moll, V. Pallardó-Julià, M. Solera*, [Appl. Math. Optim.](#) 89(66) (2024)

5. Anisotropic Chan-Vese segmentation,  
S. Moll, V. Pallardó-Julià,  
[Nonlinear Anal. Real World Appl. 73 \(2023\), 103908](#)
6. An augmented Lagrangian model for signal segmentation,  
S. Moll, V. Pallardó-Julià,  
[Mediterr. J. Math. 19\(3\) \(2022\), 1-20.](#)

#### Contributed talks

- *Young Reseachers in PDEs and Geometric Analysis*  
Online, April 2021
- *Nonlinear Partial Differential Equations 2022*  
Universitat de València, June 2022
- *Geometrical trends in Applied Analysis*  
Université de Haute-Alsace, June 2023
- *MEGA 2023*  
MRCC (Bedlewo), Uniwersytet Warszawski, October 2023
- *Student's Investmat Congress*  
Universitat de València, January 2024
- *MPDE 2024*  
Univerzita Karlova v Praze, September 2024
- *Meeting of the Spanish "Nonlocal PDEs and Applications" Network*  
Universitat de València, October 2024
- *Meeting of young researchers of the Spanish "Geometric Analysis" Network (REAG)*  
Universidade de Santiago de Compostela, November 2024
- *5th Austrian Calculus of Variations Day*  
Universität Graz, October 2025
- *Seminar "Mathematics meets Magnetic Resonance Imaging"*  
Universität Graz, March 2026

#### Teaching experience

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#### Lecturer at Universitat de València

2024/25	BSc Mathematics	<i>Numerical calculus</i>	(3.4 ECTS)
	BSc Chemistry	<i>Mathematics II</i>	(5.3 ECTS)
2023/24	BSc Mathematics	<i>Numerical methods for linear algebra</i>	(0.25 ECTS)
		<i>Numerical calculus</i>	(3.4 ECTS)
	BSc Chemistry	<i>Mathematics II</i>	(5.3 ECTS)

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#### Miscellaneous

- Languages**
- English – Advanced level
  - Catalan – Native level
  - Spanish – Native level

- Technical skills**
- Professional use of C++, Rust, Julia, Python and R.
  - Advanced knowledge on PDE based models in ML algorithms, in theory and practical level.