# **FRANCESCO PALMURELLA**

## EXPERIENCE

**Postdoctoral Researcher** at *Scuola Normale Superiore, Pisa* 2021–pres.  $\diamond$  Mentors: proff. Luigi Ambrosio and Andrea Malchiodi. Beside the research activity, I co-organized reading seminars on Analysis of Allen–Cahn equation, Yang–Mills theory, Einstein Manifolds

#### Scientific Assistant at ETH Zürich, Switerland

2015-2021

◇ Time evenly split between research and teaching. I organized exercise classes, prepared and corrected exams, checked assignments, provided support to students and maintained the website for the courses: Functional Analysis I & II (D-MATH), Mahematics III (D-CHEM), Analysis I & II (D-INFK), Measure and integration (D-MATH), Differential Geometry I & II (D-MATH).

## EDUCATION

**MSc Mathematics** Università degli studi di Padova 2012–2014 Thesis: Length–Minimizing Curves on Sub–Riemannian Manifolds: Necessary Conditions Involving the End-Point Mapping. Advisor: Roberto Monti

## **COMPUTER LITERACY**

- ◊ PYTHON (Numpy, Matplotlib, pandas, SciPy)
- ◊ WOLFRAM MATHEMATICA
- ♦ OFFICE SUITE

## SCIENTIFIC PUBBLICATIONS

- with T. Rivière: The Parametric Willmore Flow. J. Reine Angew. Math. 811 (2024), 1–91
- with T. Rivière: The Parametric Approach to the Willmore Flow. Adv. Math. 400 (2022), 108257
- with F. Boarotto & R. Monti: Third Order Open Mapping Theorems and Applications to the End-Point Map. Nonlinearity 33 (2020), 4539–4567
- with F. Da Lio & T. Rivière: A Resolution of the Poisson Problem for Elastic Plates. Arch. Rational. Mech. Anal. 236 (2020), 1593–1676
- with F. Da Lio: Remarks on Neumann boundary problems involving Jacobians. Comm. Partial Differential Equations 42 (2017), no. 10, 1497– 1509
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I authorise the processing of personal data contained within my CV according to GDPR (EU) 2016/679, Article 6.1(a)

#### Авоит ме

Matematician with professional expertise in partial differential equations, calculus of variations, differential geometry, probability.

I conducted research on Willmore surfaces and other gauge invariant variational problems.

I am currently interested in:

- stochastic analysis
- quantitative finance
- data science-related programming

#### PERSONAL INFORMATION

Citizenship: Italy Languages: Italian (native) English (fluent) German (good)