paola pozzi

Personal Data

Date of birth 5th March 1975

Place of birth Bologna, Italy

Citizenships Italian; German (since 2014)

Education

05/00–02/04 **PhD in Mathematics**, *The Australian National University*, Canberra, Australia.
Thesis title: *Finite Element Approximations to Solutions of Geometric Problems*, Supervisor: Professor John Hutchinson.

09/01–10/01 **Visiting scholar**, *University of Freiburg*, Germany.
Worked with the research group of Professor G.Dziuk at the University of Freiburg within the framework of the Australian-German Joint Research Co-operation Scheme 2000-2001.

2000 **State Exam**, Bologna, Italy.
Concorso nazionale per la scuola, Classe 47/A Matematica, Emilia Romagna. (State exam through which I was granted the permission to be permanently employed as a high school teacher in mathematics in Emilia Romagna.)

10/94–06/99 **Laurea in Matematica**, *Università di Bologna*, Bologna, Final mark: *110/110 cum laude*.
Thesis title: *Categorical Structure of Size Functions*.

10/97–07/98 **Socrates/Erasmus Exchange Program**, *Universität Bielefeld*, Bielefeld, Germany.

08/92–06/94 **Abitur**, *St.Ursula Gymnasium*, Freiburg, Germany.
Oberstufe (the last two years courses at the High School) with mathematics and English as main subjects.

Scholarships

- *International Postgraduate Research Scholarship* provided by the Australian Government Department of Education, Training and Youth Affairs.
- *Australian National University PhD Scholarship*.
- *Socrates/Erasmus grant* for my 10 months stay in Bielefeld.

Employment

Academic Positions

since 10/11 **W2-Professur "Angewandte Mathematik, insbesondere Numerische Mathematik"**, *Universität Duisburg-Essen*, Duisburg, Germany.

02/11 **Ruf auf die befristete W2-Professur "Angewandte Mathematik"**, *Freie Universität Berlin*, Berlin, Germany.
(Platz 1) Offer declined.

10/09–03/10 **Vertretung der W2-Professur "Numerik Partieller Differentialgleichungen"**, *Technische Universität München*, München, Germany.
Six months professorship.

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02/08–09/11 **Akad. Rätin auf Zeit**, *Albert-Ludwigs-Universität Freiburg*, Freiburg, Germany.
Postdoctoral Fellow in the research group of Professor G. Dziuk in the Abteilung für Angewandte Mathematik.

11/04–01/08 **Wiss. Mitarbeiterin**, *Albert-Ludwigs-Universität Freiburg*, Freiburg, Germany.
Postdoctoral Fellow in the research group of Professor G. Dziuk in the Abteilung für Angewandte Mathematik.

09/03–09/04 **Postdoctoral Fellow**, *The Australian National University*, Canberra, Australia.
Postdoctoral Fellow (Academic Level A) in the Advanced Computation and Modelling Program at the Centre for Mathematics and its Applications, MSI.

Miscellaneous

11/99-01/00 **Collaborator**, *Datalogic S.p.A.*, Bologna, Italy.
Collaborator for the realization of a research project in the field of Automatic Identification.

Training

07/2008 Summer school "PDE from Geometry", University of Cologne, Germany

10/2001 attended a one week seminar on "Numerical methods for free boundary problems" at the Mathematisches Forschungsinstitut Oberwolfach.

01/2001 TCG Technology Commercialisation Workshop, Australian National University.

2000 Graduate Teaching Program, successfully completed with merit, Australian National University.

Skills

Languages Italian (native), German (fluent), English (Cambridge First Certificate, TOEFL-CBT).

Computer Working knowledge of Fortran, Matlab, and LaTeX; basic knowledge of Mathematica, Pascal and Maple.

Referees

Professor Charles M. Elliott

Mathematics Institute, Zeeman Building, University of Warwick
Coventry CV4 7AL, United Kingdom
Tel.: +44 (0)24 7615 0773
C.M.Elliott@warwick.ac.uk

Professor Martin Rumpf
Institut für Numerische Simulation
Endenicher Allee 60, 53115 Bonn , Germany
Tel.: +49 228 73-7866
martin.rumpf@ins.uni-bonn.de

Scientific Profile

Academic activities and grants

Grant 2018–2021 **DFG** (German Research Foundation) and **MoST** (Ministry of Science and Technology in Taiwan) are funding the joint project *Flow of elastic networks* in collaboration with Anna Dall'Acqua (University of Ulm) and Chun-Chi Lin (National Taiwan Normal University)

2018-2020 Vice-Dean (**Prodekanin**) of the faculty of mathematics at the University of Duisburg-Essen

since 2012 I am an active member of the faculty of mathematics at the University of Duisburg-Essen: I am a member of the Qualitätsverbesserungskommission and serve in the Fakultätsrat when needed. During SS2016 I organised the Colloquium of our faculty. I have been member of several Berufungskommissionen (selection committees to appoint new professors at our faculty) and chairman of examining committees for PhD students.

since 2012 Member of the European Mathematical Society.

2009–2011 **Principal investigator of the SFB/Transregio 71** "Geometrische Partielle Differentialgleichungen".

since 2007 Peer-reviewer for scientific journals

07/06–08/07 Stellvertreterin der Gleichstellungsbeauftragten für die Fakultät für Mathematik und Physik (women's representative) at the University of Freiburg.

2006–2010 Member of the American Mathematical Society.

Teaching Experience and Mentoring

since 2011 **Universität Duisburg-Essen**, Germany

Lecturer for the following courses:

WS 20–21 Numerische Mathematik I (Numerical Analysis I), 60h theory+ 30h×2 exercises

WS 19-20 Differentialgeometrie I (Differential geometry I), 60h theory+ preparation materials for 30h exercises

SS 19 Theorie und Numerik geometrischer partieller Differentialgleichungen (Theory and numerics for geometric PDEs), 60h theory+ 30h exercises

WS 18-19 Variationsrechnung I (Calculus of variations I), 60h theory+ 30h exercises

SS 18 Numerik partieller Differentialgleichungen II (Numerical Analysis for PDEs II), 60h theory+ 30h exercises

Masterseminar zur Theorie und Numerik partieller Differentialgleichungen (Topic: Approximation of harmonic map heat flow)

WS 17–18 Numerik partieller Differentialgleichungen I (Numerical Analysis for PDEs I), 60h theory+ 30h exercises

Elastischer Fluss für Kurven (Analysis and Numerical Analysis for the elastic flow of curves), 30h theory

SS 17 Numerische Mathematik II (Numerical Analysis II), 60h theory + 30h exercises

Bachelorseminar Dynamische Systeme (Topic: Dynamical Systems)

WS 16–17 Numerische Mathematik I (Numerical Analysis I), 60h theory+ 30h×3 exercises

SS 16 Theorie und Numerik geometrischer partieller Differentialgleichungen (Theory and numerics for geometric PDEs), 60h theory+ 30h exercises

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Master- und Bachelorseminar zur Theorie und Numerik partieller Differentialgleichungen (Topic: Approximation of harmonic map heat flow)

SS 15 Theorie und Numerik geometrischer partieller Differentialgleichungen (Theory and numerics for geometric PDEs), 60h theory+ 30h exercises

Eindimensionale Variationsrechnung (Calculus of variations in one dimension), 30h theory

WS 14–15 Numerik partieller Differentialgleichungen I (Numerical Analysis for PDEs I), 60h theory+ 30h exercises

Bachelorseminar zur Numerik (Topic: Approximation Theory)

SS 14 Numerische Mathematik II (Numerical Analysis II), 60h theory + 30h exercises

WS 13–14 Numerische Mathematik I (Numerical Analysis I), 60h theory+ 30h exercises

Numerik partieller Differentialgleichungen I (Numerical Analysis for PDEs I), 60h theory+ 30h exercises (held over the period WS13-14 and SS14)

SS 13 Numerische Mathematik II (Numerical Analysis II), 60h theory + 30h exercises

Elastischer Fluss für Kurven (Analysis and Numerical Analysis for the elastic flow of curves), 30h theory

WS 12–13 Numerische Mathematik I (Numerical Analysis I), 60h theory+ 30h$\times$2 exercises

Seminar zur Numerik (Topic: Approximation of axisymmetric Willmore flow by C^1-Finite Elements)

SS 12 Numerische Mathematik II (Numerical Analysis II), 60h theory + 30h exercises

Seminar zur Numerik (Topic: FEM Method)

WS 11–12 Numerische Mathematik I (Numerical Analysis I), 60h theory+ 30h$\times$3 exercises

since 2012 Supervision of undergraduate students:

Bachelor: E. Stephan, N. Roemmer, M. Klar, Y. Liu, L. Li, D. Dziubek, S. Uebing, F. Sykora, J. Wischnewsky, A. Maas, L. Schmittgens, L. Keller, M. Rieser, C. Komnik

Master: M. Kewitz, M. Koppers, M. Plümer, C. Kretschmer

since 2012 Supervision of PhD students: T. Jenschke (March 2017), N. Groh (current student)

2009–2010 **Technische Universität München**, München, Germany

Lecturer for the following course:

WS 09–10 Geometrische partielle Differentialgleichungen: eine Einführung (Introduction to geometric PDEs), 60h theory+30h exercises.

2005–2011 **Albert-Ludwigs-Universität Freiburg**, Freiburg, Germany

Lecturer for the following courses:

WS 10–11 Differentialgleichungen für Studierenden der Mikrosystemtechnik (ODEs for engineering students), 30h+exercises.

SS 10 Variationsrechnung (Calculus of variations), theory+exercises.

WS 08–09 Differentialgleichungen für Studierenden der Mikrosystemtechnik (ODEs for engineering students), 30h+exercises.

WS 07–08 Variationsrechnung in einer Dimension (Calculus of variations in one dimension), 30h.

Teaching assistant for the following courses:

SS 11 Analysis II

SS 09 Nichtlineare Funktionalanalysis (Nonlinear functional analysis).

SS 09 Seminar Partielle Differentialgleichungen auf Flächen (Topic: PDEs on surfaces).

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SS 08 Seminar Geometrische Differentialgleichungen (Topic: Computational parametric Willmore flow, rotationally symmetric classical solutions to the Dirichlet problem for Willmore surfaces).

WS 06–07 Seminar Geometrische Differentialgleichugen (Topic: Willmore flow for surfaces).

SS 06 Numerik II (Numerical Analysis II).

WS 05–06 Seminar Geometrische Differentialgleichugen (Topic: Willmore flow for curves).

SS 05 Proseminar Variationsrechnung (Calculus of variations).

07–11 Co-supervisor of undergraduate students:

Diplomarbeiten: "*Zur Evolution von elastischen Kurven im* $\mathbb{R}^n$ *unter Anisotropie*", "*Analysis und numerische Analysis für die Plattengleichung auf Flächen*".

Baccalaureus: "*Eindimensionaler mittlerer Krümmungsfluss*".

2000–2004 **The Australian National University**, Canberra, Australia

Tutoring activity in mathematics:

Algebra (second year): second semester 2000.

Linear algebra and analysis (first year): first semester in 2001, 2002, 2003.

summer 03–04 Co-supervisor of a summer scholar.

10/99–11/99 **Università di Bologna**, Bologna, Italy

Teaching assistant for mathematics (Linear Algebra, first year).

Conferences and Meetings

10/2019 invited talk titled *On the evolution of elastic networks* held at the conference ENUMATH19 *European Numerical Mathematics and Advanced Applications Conference 2019* in Egmond aan Zee, The Netherlands.

13/03/2019 invited talk titled *On the flow of elastic networks* held at the University of Pisa (invited by Matteo Novaga).

06/02/2019 invited talk (Kolloquiumsvortag) titled *Über geometrische Variationsintegrale und Flüsse* held at the TU Dresden (invited by Axel Voigt).

01/2019 attended the meeting *Surface, Bulk, and Geometric Partial Differential Equations: Interfacial, stochastic, non-local and discrete structures* at the Mathematisches Forschungsinstitut Oberwolfach and gave a talk titled *On the flow of elastic networks*.

05/2018 invited talk titled *On anisotropic curvature flow* held at the University of Freiburg in occasion of the workshop *Geometry, Analysis and Approximation of Variational Problems*.

03/2018 invited talk titled *On anisotropic curvature flow* held at the University of Regensburg in occasion of the workshop *Workshop on Geometric Evolution Equations*.

08/2017 invited talk titled *On finite element schemes for geometric flows coupled to lateral diffusion* held at the conference *Modern Trends in structures forming systems* at the University of Heidelberg.

06/2017 invited talk titled *On the elastic flow of open curves in* $\mathbb{R}^n$ helt at the Centro de Giorgi, Pisa, in occasion of the workshop *Curves and Networks in Geometric Analysis.*

13/06/2017 invited talk titled *On the elastic flow of open curves in* $\mathbb{R}^n$ held at KIT, Karslruhe, (invited by E. Mäder, AG T. Lamm).

03/2017 invited talk titled *On a FE scheme for curve shortening flow coupled to lateral diffusion* held at the OIST Mini Symposium: Viscoelasticity and Dissipative Dynamics of Rods and Membranes, Okinawa, Japan.

12/09/2016 invited talk titled *On anisotropic Willmore flow* held at IIMAS, UNAM, Mexico (invited by Pablo Padilla).

07/2016 attended the workshop *Analysis and Numerics In Curvature Energies Meeting* at the University of Freiburg.

08/01/2016 invited talk titled *On anisotropic Willmore flow* held in occasion of the *ECMath Colloquium* in Berlin.

12/2015 attended the meeting *Geometric Partial Differential Equations: Surface and Bulk Processes* at the Mathematisches Forschungsinstitut Oberwolfach and gave a talk titled *On anisotropic Willmore flow.*

09/11/2015 invited talk titled *On numerical analysis for geometric PDEs: the curve shortening flow* held at the University of Warwick in occasion of the workshop *MiR@W day: Cell Motility and PDEs in Evolving and Complex Domains.*

11/2015 invited talk titled *On anisotropic Willmore Flow* held at the conference *Multi-physics geometric PDE's using deformable surfaces : analysis, modelling, numerics and applications* at the University of Sussex.

09-12/2015 Invited **three months stay at the Isaac Newton Institute in Cambridge (U.K.)** in occasion of the programme **Coupling Geometric PDEs with Physics for Cell Morphology, Motility and Pattern Formation** organized by Rudolf Leube (RWTH Aachen), Anotida Madzvamuse (Sussex), Rudolf Merkel (Forschungszentrum Jülich) and Hans Othmer (Minnesota).

09/12/14 invited talk titled *On anisotropic Willmore Flow* held at WIAS, Berlin (Invited by Dietmar Hömberg.)

11/2014 invited talk titled *On a Willmore-Helfrich L^2-flow of open curves in $\mathbb{R}^n$* held at the RIMS workshop *Shapes and other properties of solutions of PDEs*, Kyoto University (Invited by Shinya Okabe.)

07/2014 attended the *37. Süddeutsches Kolloquium über Differentialgeometrie* held at the University of Ulm

02/06/14 invited talk (Kolloquium über Angewandte Mathematik) titled *Anisotropic Willmore Flow* held at the University of Göttingen, Germany (Invited by Max Wardetzky.)

29/04/14 invited talk titled *On the elastic flow for open curves* held at the RWTH Aachen University, Germany (Invited by Maria von Westdickenberg.)

03/2014 invited talk titled *On a Willmore-Helfrich L^2-flow of open curves in $\mathbb{R}^n$* held at the Workshop *Recent Developments and Challenges in Interface and Free Boundary Problems* at the University of Warwick.

05/02/14 invited talk (Kolloquium) titled *On Willmore-Flow* , held at the Ruhr-Universität Bochum. (Invited by Christian Kreuzer.)

25/06/13 invited talk titled *Willmore-Flow of curves*, held at the Universität Bielefeld. (Invited by Moritz Kassmann.)

24/01/13 invited talk titled *Approximation of non-convex anisotropic energies*, held at the Universität Dortmund. (Invited by Matthias Röger.)

12/2011 attended the meeting *Geometric Partial Differential Equations: Theory, Numerics and Applications* at the Mathematisches Forschungsinstitut Oberwolfach.

11/2011 talk titled *Numerical Approximation of Anisotropic Willmore Flow* held at the SIAM Conference on Analysis of Partial Differential Equations, San Diego, California.

06/2011 attended the workshop *Nonlinear diffusion: algorithm, analysis and applications* at the Univeristy of Warwick.

03/2011 visited Professor M. Rumpf at the University of Bonn.

02/2011 attended the workshop *Topics in Mathematical Fluid Dynamics* held at the University of Freiburg.

02/2011 attended the meeting *Trends in Mathematical Imaging and Surface Processing* at the Mathematisches Forschungsinstitut Oberwolfach.

10/2010 attended an internal SFB/TR 71 workshop and gave a talk titled *On anisotropic Willmore flow*.

19/02/10 invited talk titled *Anisotroper mittlerer Krümmungsfluss in höherer Kodimension*, held at the Universität Regensburg. (Invited by Harald Garcke.)

02/2010 attended the meeting *New Directions in Simulation, Control and Analysis for Interfaces and Free Boundaries* at the Mathematisches Forschungsinstitut Oberwolfach.

09/2009 attended and co-organized the SFB/TR 71 workshop *Numerical Methods for Partial Differential Equations on Surfaces*, held at the University of Freiburg.

08/07/08 invited talk titled *Anisotroper mittlerer Krümmungsfluss in höherer Kodimension*, held at the RWTH Aachen, Germany. (Invited by Heiko von der Mosel.)

03/06/08 invited talk titled *Anisotropic mean curvature flow in higher codimension*, held at the Otto-von-Guericke-Universität Magdeburg, Germany. (Invited by Klaus Deckelnick.)

04/2008 talk held at GAMM 2008, 79^{th} Annual Meeting of the International Association of Applied Mathematics and Mechanics, Bremen, Germany.

03/2007 visited Professor M. Rumpf at the University of Bonn, and gave a talk titled *Anisotropic curve shortening flow in higher codimension*.

01/2007 attended the meeting *Trends in mathematical Imaging and Surface Processing* at the Mathematisches Forschungsinstitut Oberwolfach.

07/2003 talk held at ICIAM 2003, Fifth International Congress on Industrial and Applied Mathematics, Sydney, Australia.

09/2002 invited talk titled *Finite element approximation to solutions of the Douglas Problem*, held at the National Research Symposium on Differential Geometry and PDE, Centre for Mathematics and its Applications, MSI, Australian National University. (Invited by Ben Andrews.)

General research interests

- free boundary problems, geometric evolution equations
- finite element methods
- analysis and numerical analysis for nonlinear PDEs

Publications

- F.Cagliari, M.Ferri, P.Pozzi, *Size Functions from a categorical viewpoint*, Acta Appl. Math. 67 (2001), no.3, 225-235.
- P.Pozzi, *L^2-Estimate for the discrete Plateau Problem*, Math. Comp. 73 (2004), no.248, 1763-1777.
- P.Pozzi, *The discrete Douglas Problem: theory and numerics*, Interfaces Free Bound. 6 (2004), no.2, 219-252.
- P.Pozzi, *The discrete Douglas Problem: convergence results*, IMA J. Numer. Anal. 25 (2005), no.2, 337-378.
- M.Hegland, P.Pozzi, *Concentration of measure and the approximation of functions of many variables*, Mathematical methods for curves and surfaces: Tromsø, 2004, 199-212, Mod. Methods Math., Nashboro Press, Brentwood, TN, 2005.
- P.Pozzi, *Anisotropic curve shortening flow in higher codimension*, Math. Methods Appl. Sci. 30 (2007), no.11, 1243-1281.
- P.Pozzi, *Anisotropic mean curvature flow for two dimensional surfaces in higher codimension: a numerical scheme*, Interfaces Free Bound. 10 (2008), no. 4, 539-576.
- P.Pozzi, *Anisotropic mean curvature flow in higher codimension*, Proc. Appl. Math. Mech. 8 (2008), no.1, 10849-10850.
- P.Pozzi, *On the gradient flow for the anisotropic area functional*, Math. Nachr. 285 (2012), no. 5-6, 707-726.

• P.Pozzi, Ph.Reiter, *Willmore-type regularization of mean curvature flow in the presence of a non-convex anisotropy. The graph setting: analysis of the stationary case and numerics for the evolution problem*, Adv. Differential Equations 18 (2013), no.3-4, 265–308.

• P.Pozzi, P.Reiter: *Approximation of non-convex anisotropic energies via Willmore energy*, CD-ROM Proceedings of the 6th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2012), September 10-14, 2012, Vienna, Austria, Eds.: Eberhardsteiner, J.; Böhm, H.J.; Rammerstorfer, F.G., Publisher: Vienna University of Technology, Austria, ISBN: 978-3-9502481-9-7.

• A.Dall'Acqua, P.Pozzi, *A Willmore-Helfrich L^2-flow of curves with natural boundary conditions*, Comm. Anal. Geom. 22 (2014), no.4, 617–669.

• R.Perl, P.Pozzi, and M.Rumpf, *A nested variational time discretization for parametric anisotropic willmore flow*, In: Singular Phenomena and Scaling in Mathematical Models, M. Griebel editor, Springer 2014.

• A.Dall'Acqua, C.-C.Lin, P.Pozzi *Evolution of open elastic curves in $\mathbb{R}^n$ subject to fixed length and natural boundary conditions*, Analysis (Berlin) 34 (2014), no.2, 209–222.

• P.Pozzi, *Computational anisotropic Willmore flow*, Interfaces Free Bound. 17 (2015), no. 2, 189–232.

• A.Dall'Acqua, C.-C.Lin, P.Pozzi, *A gradient flow for open elastic curves with fixed length and clamped ends*, Ann. Sc. Norm. Super. Pisa Cl. Sci. (5) Vol. XVII (2017), 1031–1066.

• A.Dall'Acqua, P.Pozzi, *On a Willmore-Helfrich L^2-flow of open curves in $\mathbb{R}^n$: a different approach*, RIMS Kokyuroku, 1974, (2015) 68–82.

• P.Pozzi, Ph.Reiter, *On non-convex anisotropic surface energy regularized via the Willmore functional: the two-dimensional graph setting*, ESAIM: Control, Optimisation and Calculus of Variations 23 (2017) 1047-1071.

• P.Pozzi, B.Stinner, *Curve shortening flow coupled to lateral diffusion*, Numer. Math. 135 (2017), no. 4, 1171–1205.

• A.Dall'Acqua, P.Pozzi, A.Spener, *The Lojasiewicz-Simon gradient inequality for open elastic curves*, J. Differential Equations 261 (2016), no. 3, 2168–2209.

• G.Mercier, M. Novaga, P. Pozzi, *Anisotropic curvature flow of immersed curves*, Comm. in Anal. Geom. 27 (2019), no. 4, 937–964.

• U.Dierkes, T. Jenschke, P. Pozzi, *Approximation of minimal surfaces with free boundaries*, Interfaces and Free Bound. 20 (2018), no. 4, 551–576.

• B. Stinner, P. Pozzi, *Elastic flow interacting with a lateral diffusion process: The one-dimensional graph case*, IMA J. Numer. Anal. 39, (2019), no.1, 201–234.

• A.Dall'Acqua,T. Laux, C.-C.Lin, P.Pozzi, A.Spener, *The elastic flow of curves on the sphere*, Geom. Flows 3 (2018), 1–13.

• S.Okabe, P. Pozzi, G. Wheeler, *A gradient flow for the p-elastic energy defined on closed planar curves*, Math. Ann. 378 (2020), no.1-2, 777–828.

• A.Dall'Acqua, C.-C.Lin, P.Pozzi, *Elastic flow of networks: long-time existence result*, Geom. Flows 4 (2019), no.1, 83–136.

• M.Novaga, P.Pozzi, *A second order gradient flow of p-elastic planar networks*, SIAM J. Math. Anal. 52 (2020), no.1, 682–708.

• M.Novaga, P.Pozzi, *Uniqueness for a second order gradient flow of elastic networks*, (To appear in ENUMATH2019 Proceedings).

• P.Pozzi, B.Stinner, *On motion by curvature of a network with a triple junction.* The SMAI Journal of computational mathematics, Volume 7 (2021) , pp. 27–55.

• A.Dall'Acqua, C.-C.Lin, P.Pozzi, *Elastic flow of networks: short-time existence result*, J. Evol. Equ. (2020). `https://doi.org/10.1007/s00028-020-00626-6`

Preprints

• H.Kröner, M.Novaga, P.Pozzi *Anisotropic curvature flow of immersed networks*, To appear in Milan J. Math. .

Research Reports

• P.Pozzi, *On anisotropic Willmore Flow*, Oberwolfach Reports, Volume 55, 2015, (DOI: 10.4171/OWR/2015/55).
• P.Pozzi, *On the flow of elastic networks*, Oberwolfach Reports, Volume 3, 2019, (DOI: 10.4171/OWR/2019/3).

Thesis

PhD thesis	Finite Element Approximations to Solutions of Geometric Problems, (2003).
Tesi di laurea	Struttura categoriale delle funzioni di taglia, (1999).