

CURRICULUM VITAE

Francesco Maggi

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Research scientist, Abdus Salam International Centre for Theoretical Physics Trieste

Professor in Mathematics, University of Texas at Austin

Born in 1978

Italian citizen, US permanent resident

married, two children

Languages: Italian (native), English (fluent)

GENERAL INFORMATION

Positions and education:

Research scientist ICTP Trieste, Italy, 2016 (two years appointment)

Full professor UT Austin, USA, 2016 (on leave for the academic year 2016)

Associate professor UT Austin, USA, 2012/2015

Professore associato (Associate prof.), U. Firenze, Italy, 2011/2012

Ricercatore (Assistant prof.), U. Firenze, Italy, 2005/2011

Wissenschaftlichen Assistenten CI (Assistant prof.) U. Duisburg-Essen, Germany, 2005

Post-doctoral associate, MPI-MIS Leipzig, Germany, 2004

PhD in Mathematics, U. Firenze, Apr 2001/2004

(during this period I have visited the MPI-MIS Leipzig for two semesters and the CNA at CMU Pittsburgh for one semester)

Master Degree in Mathematics, U. Firenze, 1996/2000

Awards, honors, fellowships and others:

Fellow of the Cook professorship, UT Austin, 2015/2016

Plenary speaker, SIAM-SIAG PDE Conference 2015

Invited speaker, INdAM day 2015

Simon visiting professorship, U. Zurich and MFO Oberwolfach Calculus of Variations Workshop 2014

Frank E. Gerth III faculty fellowship, UT Austin, 2014/2017.

Premio Carlo Miranda 2008, Accademia di Scienze Fisiche e Matematiche di Napoli

SCIENTIFIC WORKS

Preprints are freely available on the arXiv and cvgmt.sns.it servers.

Mathscinet indexes 37 of the papers and books below with 531 citations by 357 authors. Google Scholar reports 1366 citations with h-index 19 and i10-index 27.

Submitted papers

50 Cavalletti, Fabio; Maggi, Francesco; Mondino, Andrea. Rigidity for critical points in the Lévy-Gromov inequality. Preprint cvgmt.sns.it

49 Maggi, Francesco; Neumayer, Robin. A bridge between Sobolev and Escobar inequalities and beyond. Preprint [arXiv:1609.02346](https://arxiv.org/abs/1609.02346)

48 Maggi, Francesco; Valdinoci, Enrico. Capillarity problems with nonlocal surface tension energies. Preprint [arXiv:1606.08610](https://arxiv.org/abs/1606.08610)

47 Krummel, Brian; Maggi, Francesco. Isoperimetry with upper mean curvature bounds and sharp stability estimates. Preprint [arXiv:1606.00490](https://arxiv.org/abs/1606.00490)

46 Ciraolo, Giulio; Figalli, Alessio; Maggi, Francesco. A quantitative analysis of metrics in \mathbb{R}^n with almost constant positive scalar curvature, with applications to Yamabe and fast diffusion flows. Preprint [arXiv:1602.01916](https://arxiv.org/abs/1602.01916)

45 Figalli, Alessio; Maggi, Francesco; Mooney, Connor. The sharp quantitative Euclidean concentration inequality. Preprint [arXiv:1601.04100v2](https://arxiv.org/abs/1601.04100v2)

44 Cicalese, Marco; Leonardi, Gian Paolo; Maggi, Francesco. Sharp stability inequalities for planar double bubbles. Preprint [arXiv:1211.3698](https://arxiv.org/abs/1211.3698)

Papers in Press

43 Ciraolo, Giulio; Maggi, Francesco. On the shape of compact hypersurfaces with almost constant mean curvature. Accepted on *Comm. Pure Appl. Math.* Preprint [arXiv:1503.06674](https://arxiv.org/abs/1503.06674).

42 Colombo, Maria; Maggi, Francesco. Existence and almost everywhere regularity of isoperimetric clusters for fractional perimeters. Accepted on *Nonlinear Analysis*. Preprint [arXiv:1605.05641](#)

41 Maggi, Francesco; Mihaila, Cornelia. On the shape of capillarity droplets in a container. Accepted on *Calc. Var. PDE*. Preprint [arXiv:1509.03324](#)

40 Carlen, Eric; Maggi, Francesco. Stability for the Brunn-Minkowski and Riesz rearrangement inequalities, with applications to Gaussian concentration and finite range non-local isoperimetry. Accepted on *Canadian Journal of Mathematics*. Preprint [arXiv:1507.03454](#).

39 Leonardi, Gian Paolo; Maggi, Francesco. Improved convergence theorems for bubble clusters. II. The three-dimensional case. Accepted on *Indiana University Mathematics Journal*. Preprint [arXiv:1505.06709](#).

38 Cicalese, Marco; Leonardi, Gian Paolo; Maggi, Francesco. Improved convergence theorems for bubble clusters. I. The planar case. Accepted on *Indiana University Mathematics Journal*. Preprint [arXiv:1409.6652](#).

37 Caroccia, Marco; Maggi, Francesco. (Accepted on 2/2016) A sharp quantitative version of Hales' isoperimetric honeycomb theorem. *Journal de Mathématiques Pures et Appliquées* Preprint [arXiv:1410.6128](#).

36 Ciraolo, Giulio; Figalli, Alessio; Maggi, Francesco; Novaga, Matteo. (Accepted on 9/2015) Rigidity and sharp stability estimates for hypersurfaces with constant and almost-constant nonlocal mean curvature. *Journal für die reine und angewandte Mathematik (Crelle's Journal)*. Preprint [arXiv:1503.00653](#).

35 De Lellis, Camillo; Ghiraldin, Francesco; Maggi, Francesco (Accepted on 2/2015). A direct approach to Plateau's problem. *J. European Math. Soc.* Preprint [arXiv:1408.4047](#).

34 Cagnetti, Filippo; Colombo, Maria; De Philippis, Guido; Maggi Francesco (Accepted on 10/2014). Essential connectedness and the rigidity problem for Gaussian symmetrization. *J. European Math. Soc.* Preprint [arXiv:1304.4527](#).

33 De Philippis, Guido; Maggi, Francesco (Accepted on 11/2014). Dimensional estimates for singular sets in geometric variational problems with free boundaries. *Journal für die reine und angewandte Mathematik (Crelle's Journal)*. Preprint [arXiv:1407.4834](#).

Publications

32 Figalli, Alessio; Fusco, Nicola; Maggi, Francesco; Millot, Vincent; Morini, Massimiliano (2015). Isoperimetry and stability properties of balls with respect to nonlocal energies. *Comm. Math. Phys.* 336(1), 441-507. Preprint [arXiv:1403.0516](#).

- 31** De Philippis, Guido; Maggi, Francesco (2015). Regularity of free boundaries in anisotropic capillarity problems and the validity of Young's law. *Arch. Ration. Mech. Anal.* 216(2), 473-568. Preprint [arXiv:1402.0549](https://arxiv.org/abs/1402.0549).
- 30** Cagnetti, Filippo; Colombo, Maria; De Philippis, Guido; Maggi Francesco (2014). Rigidity of equality cases in Steiner's perimeter inequality. *Anal. PDE*, 7(7), 1535-1593. Preprint [arXiv:1309.1639](https://arxiv.org/abs/1309.1639).
- 29** De Philippis, Guido; Maggi, Francesco (2014). Sharp stability inequalities for the Plateau problem. *J. Differential Geom.* 96(3), 399-456.
- 28** Maggi, Francesco; Ponsiglione, Marcello; Pratelli, Aldo (2014) Quantitative stability in the isodiametric inequality via the isoperimetric inequality. *Trans. AMS* 366(3), 1141-1160.
- 27** Figalli, Alessio; Maggi, Francesco; Pratelli, Aldo (2014). A geometric approach to correlation inequalities in the plane. *Ann. Inst. Henri Poincaré Probab. Stat.* 50(1), 1-14.
- 26** Figalli, Alessio; Maggi, Francesco; Pratelli, Aldo (2013). Sharp stability theorems for the anisotropic Sobolev and log-Sobolev inequalities on functions of bounded variation, *Adv. Math.* 242, 80-101.
- 25** Figalli, Alessio; Maggi, Francesco (2013) On the isoperimetric problem for radial log-convex densities, *Calc. Var. Partial Differential Equations* 48(3-4), 447-489.
- 24** Figalli, Alessio; Maggi, Francesco; (2011) On the shape of liquid drops and crystals in the small mass regime. *Arch. Ration. Mech. Anal.* 201(1), 143-207.
- 23** Fusco, Nicola; Maggi, Francesco; Pratelli, Aldo (2011). On the isoperimetric problem with respect to a mixed Euclidean-Gaussian density. *J. Funct. Anal.* 260(12), 3678-3717.
- 22** Cianchi, Andrea; Fusco, Nicola; Maggi, Francesco; Pratelli, Aldo (2011) On the isoperimetric deficit in Gauss space. *Amer. J. Math.* 133(1), 131-186.
- 21** Fonseca, Irene; Leoni, Giovanni; Maggi, Francesco; Morini, Massimiliano (2010) Exact reconstruction of color images by a total variation model, *Ann. Inst. H. Poincaré Anal. Non Linéaire* 27, 1291-1331.
- 20** Figalli, Alessio; Maggi, Francesco; Pratelli, Aldo (2010). A mass transportation approach to quantitative isoperimetric inequalities, *Invent. Math.* 182, 167-211.
- 19** Figalli, Alessio; Maggi, Francesco; Pratelli, Aldo (2009). A refined Brunn-Minkowski inequality for convex sets, *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 26, 2511-2519.
- 18** Figalli, Alessio; Maggi, Francesco; Pratelli, Aldo (2009). A note on Cheeger sets, *Proc. AMS* 137(6), 2057-2062.

- 17** Cianchi, Andrea; Fusco, Nicola; Maggi, Francesco; Pratelli, Aldo (2009), The sharp Sobolev inequality in quantitative form, *J. Eur. Math. Soc.* (5), 1105–1139.
- 16** Fusco, Nicola; Maggi, Francesco; Pratelli, Aldo (2009) Stability estimates for certain Faber-Krahn, isocapacitary and Cheeger inequalities. *Ann. Sc. Norm. Super. Pisa Cl. Sci.* (5), 51–71.
- 15** Maggi, Francesco (2008). Some methods for studying stability in isoperimetric type problems, *Bull. AMS* 45(3), 367-408.
- 14** Fusco, Nicola; Maggi, Francesco; Pratelli, Aldo (2008). The sharp quantitative isoperimetric inequality, *Ann. of Math.* (2) 168(3), 941-980.
- 13** Maggi, Francesco; Villani, Cédric (2008). Balls have the worst best Sobolev inequalities. Part two: variants and extensions, *Calc. Var. PDE* 31(1), 47-74.
- 12** Conti, Sergio; Maggi, Francesco, (2008). Confining thin elastic sheets and folding paper. *Arch. Ration. Mech. Anal.* 187(1), 1-48.
- 11** Fusco, Nicola; Maggi, Francesco; Pratelli, Aldo (2007) The sharp quantitative Sobolev inequality for functions of bounded variation *J. Funct. Anal.* 244(1) 315-341.
- 10** Conti, Sergio; Maggi, Francesco; Müller, Stefan (2006) Rigorous derivation of Föppl’s theory for clamped elastic membranes leads to relaxation, *SIAM J. Math. Anal.* 38(2) 657-680.
- 9** Fusco, Nicola; Gori, Michele; Maggi, Francesco (2006). A remark on Serrin’s theorem. *NoDEA* 13(4), 425-433.
- 8** Conti, Sergio; Faraco, Daniel; Maggi, Francesco; Müller, Stefan (2005). Rank-one convex functions on 2×2 symmetric matrices and laminates on rank-three lines. *Calc. Var. PDE* 24(4), 479-493.
- 7** Conti, Sergio; Faraco, Daniel; Maggi, Francesco (2005) A new approach to counterexamples to L1 estimates: Korn’s inequality, geometric rigidity and regularity for gradients of separately convex functions, *Arch. Ration. Mech. Anal.* 175(2), 287-300.
- 6** Gori, Michele; Maggi, Francesco (2005). The common root of the geometric conditions in Serrin’s lower semicontinuity theorem. *Ann. Mat. Pura e Applicata*, 184(1), 95-114.
- 5** Maggi, Francesco; Villani, Cédric (2005). Balls have the worst best Sobolev inequalities. *J. Geom. Anal.* 15(1), 83-121.
- 4** Maggi, Francesco; Morini, Massimiliano (2004). A Γ -convergence result for variational integrators of quadratic lagrangians. *ESAIM: COCV* 10(4), 656-665.

3 Maggi, Francesco (2003) On the relaxation on BV of certain non-coercive integral functionals, *J. Convex Anal.* 10(2), 477-489.

2 Gori, Michele; Maggi, Francesco (2003) On the lower semicontinuity of supremal functionals, *ESAIM: COCV* 9, 135-143.

1 Gori, Michele; Maggi, Francesco; Marcellini, Paolo (2003). On some sharp conditions for lower semicontinuity in L1. *Diff. Int. Equations* 16(1), 51-76.

Books and lecture notes:

2 Maggi, Francesco (2012). Sets of finite perimeter and geometric variational problems: an introduction to Geometric Measure Theory, *Cambridge Studies in Advances Mathematics* 135, Cambridge University Press, 2012.

1 Maggi, Francesco (2008). Symmetrization, optimal transport and quantitative isoperimetric inequalities. This is a chapter in: Optimal transportation, Geometry and Functional inequalities (Edited by Luigi Ambrosio). *Centro di Ricerca Matematica Ennio De Giorgi (CRM) Series, 11*. Edizioni della Normale, Pisa, 2010.

GRANTS

FRG: Collaborative Research: *Vectorial and geometric problems in the Calculus of Variations*, other PIs A. Figalli (UT Austin), L. C. Evans (Berkeley), O. Savin (Columbia U.) from 6/14 to 6/17

Stability, symmetry and regularity issues in geometric variational problems, NSF Grant DMS-1265910, from 7/13 to 6/16 (as principal investigator)

Analysis of optimal sets and optimal constants: old questions and new results, ERC Starting Grant 258685, from 8/10 to 7/16 (as co-investigator, principal investigator Aldo Pratelli)

Analytic techniques for geometric and functional inequalities, ERC Advanced Grant 246923, from 1/09 to 12/15 (as co-investigator, principal investigator Nicola Fusco)

Geometric-functional inequalities in sharp and quantitative form, GNAMPA-INdAM, from 1/07 to 12/07.

SERVICE

Referee activity (journals):

Annals of Mathematics, Inventiones Mathematicae, Duke Math. Journal, J. Diff.

Geometry, Arch. Rat. Mech. Anal., J. Funct. Analysis, Advances in Mathematics, SIAM J Math Analysis, J Math Pure Appl, J European Math Society, J American Math Society, Crelle's Journal, Proc. Royal Soc. Edinburgh, Geom. Funct. Analysis, Annali SNS Pisa, Indiana U Mathematics Journal, J Nonlinear Science, J Potential Theory, J Diff Equations, Discr. Cont. Dinamical Systems, Ann. IHP Analysis, Calc. Var. PDE, Adv. Calc. Var., Comm. PDE, ESAIM COCV, NoDEA, Nonlinearity, Monatshefte für Mathematik, Annali di Ferrara.

Referee activity (grants):

FONDECYT 2015 Chilean National Science and Technology Commission, Chile

PRIN 2013, PRIN 2015 Ministero Italiano Università e Ricerca, Italy

VQR 2004-2010, VQR 2011-2014 Ministero Italiano Università e Ricerca, Italy

Blanc SIMI 1 2011 Programme, Agence Nationale de la Recherche, France.

Editorial work:

Guest editor for a special issue of the *Bollettino dell'Unione Matematica Italiana* on *Geometric Measure Theory and Variational problems. Some recent trends and open problem*. To appear in 2016.

Workshops and schools organization:

Nonlocal Partial Differential Equations and Applications to Geometry, Physics and Probability, two-weeks event at ICTP. Co-organizers, Luis Caffarelli, Eric Carlen, and Guido De Philippis (<http://indico.ictp.it/event/7963/>)

New Trends in Elliptic and Partial Differential Equations, (12/15) minisymposium (8 talks) during the SIAM Conference on the Analysis of PDE in Phoenix, AZ. Co-organizer Mark Allen (http://meetings.siam.org/sess/dsp_programsess.cfm?SESSIONCODE=21635)

Calculus of Variations and nonlinear partial differential equations, (5/15) week one three courses (del Pino, Evans, Kohn), week two conference. Co-organizer Alessio Figalli (<http://www.ma.utexas.edu/pde/cvnpde/>)

Calculus of Variations, Continuum Mechanics and Geometric Inequalities (6/11) one week event with three courses (Carlen, Figalli, Hencl) and six one-hour talks, organized jointly with Aldo Pratelli (http://www-dimat.unipv.it/~erc_pratelli/Ischia_summer-school/Courses.htm)

Departmental service:

Hiring committee, Department of Mathematics, UT Austin (2014 and 2015).

Administrative Section of the Graduates Studies Committee (2013 and 2014)

Postdoc hiring committee, Department of Mathematics, UT Austin (2012 and 2013).

Collegio dei docenti (Graduate school committee), Dipartimento di Matematica U. Dini, U. Firenze, (2010 and 2011).

ADVISING

Post-doc advising:

Matias Delgadino (ICTP Trieste)

Brian Krummel (UT Austin)

Graduate students advising:

Marco Caroccia (U. Pisa, joint with G. Alberti, graduated on 7/15)

Cornelia Mihaila (UT Austin)

Robin Neumayer (UT Austin, joint with A. Figalli)

Undergraduate students advising:

Marco Caroccia (U. Firenze) Master degree thesis *Stime asintotiche per partizioni minimali del piano*, defended on 7/11

Berardo Ruffini (U. Firenze) Master degree thesis *Riduzione al caso radiale per una versione quantitative della disuguaglianza di Gagliardo-Nirenberg*, defended on 4/10.

DISSEMINATION

Invited graduate courses and short-courses in schools:

9 *Mass transportation and applications to geometric inequalities*, U Montpellier, 6/15

8 *Mass transportation, inequalities and applications to PDE*, U Autónoma Madrid, 3/15

7 *Geometric inequalities in quantitative form and applications*, U Florence, 6/14.

6 *Perimeter minimizing bubble clusters*, Kinetics, non standard diffusions and stochastics: emerging challenges in the sciences, Austin, 5/14.

5 *The rigidity problem for symmetrization inequalities*, ERC school "Geometric functional inequalities and shape optimization", Napoli, Accademia Pontaniana, 9/13.

- 4 *Geometric variational problems*, U Florence, 6/13.
- 3 *Equilibrium shapes for anisotropic surface tension energies*, Heriot-Watt U Edinburgh, 2/10.
- 2 *Symmetrization, optimal transport and quantitative isoperimetric inequalities*, during the school Optimal transportation, geometry and functional inequalities, SNS Pisa 10/08.
- 1 *Geometric-functional inequalities in sharp and quantitative form*, PhD course, U Napoli "Federico II", 5/07.

Invited talks at workshops

- 38 *James Serrin: from his legacy to the new frontiers*, Perugia, Italy, 1/17
- 37 *Geometric inequalities on Riemannian manifolds*, Busan, Korea, 11/16
- 36 *Calculus of Variations*, MFO Oberwolfach, 7/16
- 35 *Calculus of Variations and nonlinear PDE*, Columbia University, 5/16
- 34 *SIAM-SIG PDE* (plenary speaker), 12/15
- 33 *SIAM-SIG PDE - Minisymposium on Convex Integration*, 12/15.
- 32 *Geometric analysis, free boundaries and measure theory*, MPI-MIS Leipzig, 6/15
- 31 *Geometric Measure Theory: theory and applications*, Institut Fourier, Grenoble, 6/15
- 30 *INdAM day 2015*, 6/15.
- 29 *Calculus of Variations: Geometry, Inequalities and Design*, Fields Inst. Toronto, 11/14
- 28 *Calculus of Variations*, MFO Oberwolfach, 7/14.
- 27 *Analysis of PDEs: Theory-Methods and Applications*, Protaras, Cyprus, 7/14.
- 26 *Isoperimetric problems between analysis and geometry*, Pisa, 6/14.
- 25 *Basel-Freiburg-Zurich Analysis seminar*, University of Zurich, 10/13.
- 24 *Partial Differential Equations*, MFO Oberwolfach, 8/13.
- 23 *Geometric Measure Theory and Optimal Transport*, ICTP Trieste, 7/13
- 22 *Geometric inequalities in the Calculus of Variations*, Pisa, 7/12.
- 21 *Warwick-Cambridge-Imperial seminar in Geometric Analysis*, Warwick 5/12
- 20 *XXI Convegno Nazionale di Calcolo delle Variazioni*, Levico Terme, 2/11
- 19 *Calculus of Variations, Singular Integrals and Incompressible Flows*, Madrid, 9/10.
- 18 *GNAMPA- ERC Summer school*, Ischia, Italy 6/10.
- 17 *Recent advances in optimal transportation and applications*, Nice, 10/09.
- 16 *Optimal transportation: theory and applications*, Institut Fourier, Grenoble, 6/09.
- 15 *Mini-symposium in PDEs*, Maxwell Institute, Edinburgh, 5/09.
- 14 *Advances in Mathematical Analysis*, EPFL Lausanne, 3/09.
- 13 *Glimpses of Geometry*, ENS-Lyon, 5/08.
- 12 *XVIII Convegno Nazionale di Calcolo delle Variazioni*, Levico Terme, 2/08.
- 11 *XVIII Congresso dell'Unione Matematica Italiana*, Bari 10/07.
- 10 *New trends in PDEs and Calculus of Variations*, Cortona, 5/07.
- 9 *XVII Convegno Nazionale di Calcolo delle Variazioni*, Levico Terme, 2/07.
- 8 *Calculus of Variations and Applications*, Ponta Delgada, Azores, 9/06.
- 7 *Optimal Transport and Geometric PDE's*, Nice, 6/06.
- 6 *Multiscale Problems in Quantum Mechanics and Averaging Techniques*, Berlin 9/05.
- 5 *Recent Advances in Calculus of Variations and PDE's*, U Pisa, 3/05.

- 4 *Calcolo delle Variazioni e Teoria Geometrica della Misura*, Lizzanello, 10/04.
 3 *Dislocation Patterns in Plastic Materials*, Warwick, 5/04.
 2 *XIV Convegno Nazionale di Calcolo delle Variazioni*, Levico Terme, 2/04
 1 *XIII Convegno Nazionale di Calcolo delle Variazioni*, Levico Terme, 2/02

Research seminars and colloquia:

- 38 Analysis seminar, Texas State U, San Marcos, 4/16
 37 Analysis seminar, Johns Hopkins U, Baltimore, 11/15
 36 Colloquium talk, U Berkeley, 10/15
 35 Analysis seminar, U Pisa, 6/15
 34 Analysis seminar, U Autonoma Madrid, 3/15
 33 Analysis seminar, George Washington U, 2/15
 32 Geometry seminar, Stanford U, 10/14
 31 Analysis seminar, Purdue U, 10/14
 30 Colloquium talk, Indiana U at Bloomington, 4/14
 29 Colloquium talk, Michigan State U, 11/13
 28 Mathematical Physics seminar, Rutgers U, New Brunswick, 10/13
 27 Analysis seminar, UCLA, Los Angeles, 5/13
 26 Analysis seminar, U Sussex, Brighton, 5/13
 25 Analysis seminar, U of Houston, Texas, USA, 3/12
 24 Colloquium talk, Erlangen-Nurnberg U, Germany, 1/12
 23 Colloquium talk, Carnegie Mellon U, 12/11
 22 Analysis Applied Math Seminar, U Toronto, 11/11
 21 Analysis seminar, U Texas at Austin, 10/11
 20 Analysis seminar, U Roma Tor Vergata, 2/11
 19 Analysis seminar, U Padova, 1/11
 18 Analysis seminar, U Roma la Sapienza, 1/11
 17 Physics seminar, U Roma Tor Vergata, 11/09
 16 Analysis seminar, U Ferrara, 11/09
 15 Analysis seminar U Napoli "Federico II", 1/09
 14 Functional analysis seminar, UMPC (Paris 6), 12/07
 13 Analysis seminar, U Pisa, 12/07
 12 Analysis seminar, CMU Pittsburgh, 11/07
 11 Analysis seminar U Duisburg-Essen, 6/07
 10 Analysis seminar U Roma Tor Vergata, 3/07
 9 Analysis seminar U Firenze, 1/07
 8 Analysis seminar CMU Pittsburgh, 11/06
 7 Analysis seminar SISSA, Trieste, 3/06
 6 Analysis seminar, U Zürich, 2/06
 5 Analysis seminar U Napoli "Federico II", 4/05
 4 Arbeitsgemeinschaft Mikrostrukturen, MPI-MIS, Leipzig, 1/05
 3 Analysis seminar, U Firenze, 4/04
 2 Arbeitsgemeinschaft Mikrostrukturen, MPI-MIS, Leipzig, 11/03
 1 Analysis seminar U Firenze, 2/04

TEACHING

Abdus Salam International Centre for Theoretical Physics

Fall 16, Real Analysis. Videos available at ictp.tv

UT Austin

The numbers in parentheses are the overall instructor-course evaluations according to the students, expressed on the scale 0-5.

Spring 16 M361K Introduction to Real Analysis (2.8-2.8)
Fall 15 M408M Multivariable Calculus (3.8-3.8)
Fall 15 M361 Functions of one complex variable (4.4-4.3)
Spring 15 M427K Honors, Advanced calculus for applications (4.0-3.7)
Fall 14 M393C Geometric Measure Theory (4.8-4.8)
Spring 14 M372K Partial differential equations and applications (4.4-4.0)
Fall 13 M361 Functions of one complex variable (4.1-3.8)
Spring 13 M361K Introduction to Real Analysis (4.4-4.0)
Fall 12 M361 Functions of one complex variable (4.3-4.0)

U Firenze

Calculus of Variations, Spring 08, 09, 10, Fall 10.
Calculus for students in Biology, Fall 05, 06, 07, 08, 09, 10.
Calculus for students in Chemistry, Fall 05, 06, 07.

U Duisburg-Essen

Topics course. Introduction to sets of finite perimeter and functions of bounded variation,
Spring 05
Functional Analysis (discussion sessions), Spring 05.