

FRANCESCO DI PLINIO – CURRICULUM VITÆ

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1. Academic and professional history

ACADEMIC DEGREES

- Indiana University Bloomington (09/2008–12/2012).
Ph.D. in Pure Mathematics. GPA: 4.00/4.00
Doctoral thesis: *L^p bounds for the directional Hilbert transform and endpoint estimates with application to Euler equations*. Advisors Prof. C. Demeter and R. Temam
- Politecnico di Milano (09/2002–07/2007).
Laurea Magistrale [M.Sc.] in Mathematical methods for Engineering and Sciences, Advisor Prof. V. Pata. Final grade: 110/110 *summa cum laude*.

ACADEMIC POSITIONS

- **Assistant Professor (tenure-track)**, Department of Mathematics, University of Virginia, July 2016-present.
- Tamarkin Assistant Professor, Department of Mathematics, Brown University (September 2014–June 2017; resigned July 2016). This is a non-tenure track position at the Assistant Professor level.
- INdAM-Cofund Marie Curie Fellow, Dipartimento di Matematica, Università degli Studi “Tor Vergata”, Roma, Italy (December 2012–November 2014, Resigned August 2014) This is a two years postdoctoral research fellowship.

ACTIVE GRANTS AND PROFESSIONAL QUALIFICATIONS

- **Principal investigator (PI), NSF Grant NSF-DMS-1800628**, project title “Singular Integrals with Modulation or Rotational Symmetry Awarded March 29, 2018. Duration July 2018-June 2021: \$179,972. Project description at [this URL](#) or <https://www.nsf.gov/>
- **Principal investigator (PI), NSF Grant NSF-DMS-1650810**, project title “Endpoint Behavior of Modulation Invariant Singular Integrals”, July 2015-June 2019: \$151,237 (formerly NSF-DMS-1500049) Project description at [this URL](#) or on <https://www.nsf.gov/>
- **Co-PI, NSF Includes-WATCHUS subaward**, (with Sara Maloni) October 1 2017 to September 30, 2018, PI: Judy Walker, U Nebraska (award number DMS-1649365) project title “Diversity and Inclusion in Mathematics at the University of Virginia”, \$5000
- **Co-PI, Arts & Sciences Diversity and Inclusion Grant at UVa**, Awarded Spring 2018, (with Sara Maloni) project title “Women and Diversity in Mathematics, Statistics and Physics”, \$10,000
- Italian National Scientific Habilitation to Associate Professor, Mathematical Analysis (compartment 01/A3), granted November 2014.

2. Publications

Publications are numbered increasingly by completion date and listed in reverse chronological order within each group.

2.A. PUBLISHED AND ACCEPTED ARTICLES. (25)

- (26) F. Di Plinio, I. Parissis, *On the maximal directional Hilbert transform in three dimensions*, to appear, **Int. Math. Res. Not. IMRN.**, available online on journal webpage at <https://doi.org/10.1093/imrn/rny138>, preprint [arXiv:1712.02673](https://arxiv.org/abs/1712.02673)
- (25) A. Culiuc, F. Di Plinio, Y. Ou. *A sparse estimate for multilinear forms involving vector valued maximal functions*, **Bruno Pini Math. Anal. Sem.** (2018), 168–184
- (24) F. Di Plinio, S. Guo, C. Thiele and P. Zorin-Kranich, *Square functions for bi-Lipschitz maps and directional operators*, **J. Funct. Anal.**, to appear, available online at <https://doi.org/10.1016/j.jfa.2018.07.005>
- (22) F. Di Plinio and I. Parissis, *A sharp estimate for the Hilbert transform along higher order lacunary directions*, **Israel J. Math.**, online first at <https://link.springer.com/article/10.1007/s11856-018-1724-y>, preprint [arXiv:1704.02918](https://arxiv.org/abs/1704.02918)
- (21) F. Di Plinio, A. Giorgini, V. Pata and R. Temam, *The Navier-Stokes-Voigt Equations with Memory in 3D lacking instantaneous kinematic viscosity*, **J. Nonlinear Sci.** **28** (2018), no. 2, 653–686
- (20) J.M. Conde-Alonso, A. Culiuc, F. Di Plinio and Y. Ou, *A sparse domination principle for rough singular integrals*, **Analysis & PDE** **10** (2017), no. 5, 1255–1284
- (19) Y. Q. Do, F. Di Plinio and G. N. Uraltsev, *Positive sparse domination of variational Carleson operators*, to appear in **Annali Scuola Norm. Sup.** (Scienze), preprint [arXiv:1612.03028](https://arxiv.org/abs/1612.03028)
- (18) A. Culiuc, F. Di Plinio and Y. Ou, *Uniform sparse domination of singular integrals via dyadic shifts*, preprint [arXiv:1610.01958](https://arxiv.org/abs/1610.01958), **Math. Res. Lett.** **25** (2018), no.1, 21–42
- (17) A. Culiuc, F. Di Plinio and Y. Ou, *Domination of multilinear singular integrals by positive sparse forms*, **J. London Math. Soc.** Online First (2018), <https://doi.org/10.1112/jlms.12139>
- (16) F. Di Plinio and Y. Ou, *A modulation invariant Carleson embedding theorem outside local L^2* , **J. d'Analyse Mathématique** **135** (2018), no. 2, 675–711.
- (15) F. Di Plinio and Y. Ou, *Banach-valued multilinear singular integrals*, preprint [arXiv:1506.05827](https://arxiv.org/abs/1506.05827), to appear in **Indiana Univ. Math. J.**
- (14) F. Di Plinio and C. Thiele, *Endpoint bounds for the bilinear Hilbert transform*, **Trans. Amer. Math. Soc.** **368** (2016), no. 6, 3931–3972. [MR3453362](https://arxiv.org/abs/1506.05827)
- (13) F. Di Plinio and R. Temam, *Grisvard's shift theorem near L^∞ and Yudovich theory on polygonal domains*, **SIAM J. Math. Anal.** **47** (2015), no. 1, 159–178. [MR3296605](https://arxiv.org/abs/1506.05827)
- (12) F. Di Plinio and A. K. Lerner, *On weighted norm inequalities for the Carleson and Walsh-Carleson operators*, **J. London Math. Soc.** **90** (2014), no. 3, 654–674 [MR3291794](https://arxiv.org/abs/1506.05827)
- (11) F. Di Plinio, *Weak- L^p bounds for the Carleson and Walsh-Carleson operators*, operators, **C. R. Math. Acad. Sci. Paris** **352** (2014), no. 4, 327–331 [MR3186922](https://arxiv.org/abs/1506.05827)
- (10) F. Di Plinio, *Lacunary Fourier and Walsh-Fourier series near L^1* , **Collect. Math.** **65** (2014), no. 2, 219–232. [MR3189278](https://arxiv.org/abs/1506.05827)
- (9) C. Demeter and F. Di Plinio, *Logarithmic L^p bounds for maximal directional singular integrals in the plane*, **J. Geom. Anal.** **24** (2014), no. 1, 375–416. [3145928](https://arxiv.org/abs/1506.05827)
- (8) C. Demeter and F. Di Plinio, *Endpoint bounds for the Quartile Operator*, **J. Fourier Anal. Appl.** **19** (2013), no. 4, 836–856. [MR3089425](https://arxiv.org/abs/1506.05827)
- (7) C. Bardos, F. Di Plinio, R. Temam, *The Euler equations in planar nonsmooth convex domains*, **J. Math. Anal. Appl.** **407** (2013), no. 1, 69–89. [MR3063105](https://arxiv.org/abs/1506.05827)
- (6) F. Di Plinio, G. S. Duane, R. Temam, *The 3-dimensional Oscillon Equation*, **Boll. Unione Mat. Ital. Ser. IX** **5** (2012), no. 1, 19–54. [MR29196478](https://arxiv.org/abs/1506.05827)

- (5) M. D. Chekroun, F. Di Plinio, N. E. Glatt-Holtz, V. Pata, *Asymptotics of the Coleman-Gurtin model*, **Discrete Contin. Dyn. Syst. Ser. S** **4** (2011), no. 2, 351–369. [MR2746378](#)
- (4) F. Di Plinio, G. S. Duane, R. Temam, *Time-dependent attractor for the oscillon equation*, **Discrete Contin. Dyn. Syst.** **29** (2011), no. 1, 141–167. [MR2725285](#)
- (3) F. Di Plinio, V. Pata, *Robust exponential attractors for the strongly damped wave equation with memory. II*, **Russ. J. Math. Phys.** **16** (2009), 61–73. [MR2486806](#)
- (2) F. Di Plinio, V. Pata, *Robust exponential attractors for the strongly damped wave equation with memory. I*, **Russ. J. Math. Phys.** **15** (2008), 301–315. [MR2448344](#)
- (1) F. Di Plinio, V. Pata, S. Zelik, *On the strongly damped wave equation with memory*, **Indiana Univ. Math. J.** **57** (2008), no. 2, 757–780. [MR2414334](#)

2.B. SUBMITTED OR COMPLETED ARTICLES (3)

- (28) F. Di Plinio and I. Parissis, *Maximal directional operators along algebraic varieties*, submitted, preprint [arXiv:1807.08255](#)
- (27) A. Culiuc, F. Di Plinio, M. Lacey and Y. Ou, *Endpoint sparse bounds for Walsh-Fourier multipliers of Marcinkiewicz type*, submitted to Rev. Mat. Iberoamericana, preprint [arXiv:1805.06060](#)
- (23) F. Di Plinio, T. Hytönen and K. Li *Sparse bounds for maximal rough singular integrals via the Fourier transform*, submitted to Ann. Inst. Fourier, preprint [arXiv:1706.09064](#)

2.C. PAPERS IN PREPARATION. (4)

- F. Di Plinio, Y. Ou, *Multilinear Banach-valued representation theorem*, preprint available upon request
- J.M. Conde-Alonso, F. Di Plinio and I. Parissis, *A metric approach to sparse domination*, under completion
- F. Di Plinio and Y. Ou, *Banach-valued multilinear singular integrals with modulation invariance*, in preparation
- F. Di Plinio and I. Parissis, *The lacunary Carleson operator on UMD spaces*, preprint available upon request

3. Seminar talks, courses, workshops, and research stays

2018

- **Joint meeting of the Italian Mathematical Union, the Italian Society of Industrial and Applied Mathematics and the Polish Mathematical Society**, September 24–29, 2018, Wrocław (Poland), invited speaker, special session in Harmonic Analysis
- **ICM 2018 Satellite Conference in Harmonic Analysis**, July 24–29, 2018, Porto Alegre (Brazil), invited speaker
- **The International Workshop on Singular Integral Operators**, Chern Institute of Mathematics, Nankai University, Tianjin 300071, China, 3–6 July 2018, plenary speaker (declined)
- **University of Basque Country**, Analysis Seminar, June 14, 2018
- **Workshop “New trends in Harmonic Analysis”**, Politecnico di Torino, 24–25 May 2018, invited speaker
- **Southeastern Analysis Meeting**, March 23–25, 2018, Georgia Institute of Technology, Atlanta (USA), special session talk
- **Workshop “Harmonic Analysis in Winter”**, ICMAT Madrid, 8–12 January 2018, webpage link [here](#)

2017

- **Brown University**, Analysis Seminar, October 30, 2017
- **2nd Northeastern Analysis Meeting (NEAM)**, October 13–15, 2017, Albany, NY. Plenary speaker.

- **AIM Workshop** “Sparse domination of Singular Integral operators”, San Jose, CA, October 9-13 2017 [workshop page](#), organizer
- **Virginia Commonwealth University**, Analysis, Logic and Set Theory Seminar September 1, 2017
- **University of Bergamo**, Analysis Seminar, June 26, 2017
- **XXXVII Convegno Nazionale di Analisi Armonica**, Bressanone, May 23-25, 2017, 50 minutes talk
- **Invited speaker at MSRI Workshop** “Recent developments in Harmonic Analysis”, Berkeley, CA, May 15-19 2017 [workshop page](#)
- **University of Wisconsin, Madison**, Analysis Seminar, April 4, 2017
- **AMS Central Sectional Meeting, Indiana University Bloomington**, April 1-2, 2017, special session on “Harmonic Analysis and Partial Differential Equations”, invited talk
- **Hausdorff Center for Mathematics**, Bonn, March 22-24, 2017, seminar talk and research stay
- **Minicourse on Sparse Domination of Singular Integral Operators beyond CZ theory**, BCAM Bilbao, February 27-March 3, 2017 [course webpage](#)
- **Universidad de La Rioja**, Spain, Analysis day at Logrono, February 23 2017, invited talk
- **Basque Center for Applied Mathematics**, Bilbao, Spain, February 22 to April 24, 2017, visiting fellow
- **University of Alabama** Tuscaloosa, Analysis Seminar, February 10, 2017
- **University of Missouri-Columbia**, Analysis Seminar, February 7, 2017
- **University of Birmingham**, United Kingdom, Analysis Seminar, January 31, 2017
- **University of Bologna**, Analysis Seminar, Italy, January 26, 2017

2016

- **Mittag-Leffler Institute**, workshop “Probabilistic Harmonic Analysis and Spectral Theory” Stockholm, Sweden, July 11-15, 2016, invited seminar talk
- **10th El Escorial Conference on Harmonic Analysis and PDEs**, Madrid, Spain, June 12-16, 2016, selected talk
- **University of Wisconsin, Madison**, Conference in Honor of M. Christ, May 15-19 (poster presentation)
- **Universitat Autònoma de Barcelona**, Analysis seminar, May 9, 2016
- **Centre de Recerca Matemàtica**, Workshop on function spaces and high-dimensional approximation, May 3-11, 2016
- **AMS Southeastern Sectional Meeting**, March 5-6, 2016, University of Georgia, Athens, GA, special session on “Sharp estimates and Bellman functions in Harmonic Analysis”, invited speaker
- **Florida State University**, Colloquium, January 22, 2016
- **University of Cincinnati**, Colloquium, January 19, 2016

2015

- **University of Massachusetts**, Special Colloquium, December 14, 2015
- **University of Virginia**, Special Colloquium, December 10, 2015
- **Indiana University**, Analysis seminar, September 21-24, 2015
- **ICMAT Madrid**, Analysis and Applications seminar, September 1-4, 2015 (research stay)
- **Politecnico di Milano**, Analysis Seminar, June 14-19, 2015 (invited talk and research stay)
- **Joint AMS-EMS-PMS meeting**, Special session in “Geometric Aspects of Harmonic Analysis”, Porto (Portugal), June 10-13, 2015 (invited talk)
- **AIM Workshop** on Carleson’s theorem and multilinear operators, Palo Alto (CA) May 17-22, 2015
- **University of Virginia**, Analysis Seminar, April 26, 2015
- **February Fourier Talks**, University of Maryland-College Park, February 18, 2015 (poster presentation)
- **Yale University**, Applied Mathematics Seminar, February 10, 2015

2014

- **Boston University**, Partial Differential Equations seminar, October 15, 2014
- **Oberwolfach Workshop 1430** on Real Analysis, Harmonic Analysis and Applications, July 20-26, 2014
- **10th AIMS Conference** on Dynamical Systems, Differential Equations and Applications, July 7-11, 2014, Madrid, Spain. Special session on “Nonlinear Evolution PDEs and Interfaces in Applied Sciences”, invited talk
- **Hausdorff Institute for Mathematics**, Bonn, Harmonic Analysis and PDE 2014 trimester program. Research stays: May 11-18, June 16-17 (trimester seminar talk), July 13-20

2013

- **Hausdorff Center for Mathematics**, Bonn, November 30-December 4, 2013 invited talk and research stay
- **SIAM Conference** on Analysis of Partial Differential Equations, December 7-10, 2013, Orlando (FL), United States. Special session MS20, Analysis of Navier-Stokes Equations and Related Fluid Models, invited talk.
- **Joint Meeting of the AMS and the Romanian Mathematical Society**, June 27 - 30, 2013, Alba Iulia, Romania. Special session on Harmonic Analysis and Applications, invited talk
- **XXXIII Convegno Nazionale di Analisi Armonica**, Alba, June 17-20, 2013, invited talk
- **Harmonic Analysis, PDEs and Geometry at ICMAT**, Workshop, Madrid, May 27th-31st, 2013, selected short talk
- **Hausdorff Center for Mathematics**, Bonn, Oberanalysis seminar, May 1-5, invited talk and research stay
- **Indiana University**, Institute for Scientific Computing and Applied Mathematics, Bloomington IN, USA, April 5-16, 2013 (research stay)
- **Brown University**, Analysis and Partial Differential Equations Seminar, Providence RI, USA, April 3, 2013, invited talk
- **Princeton University**, Analysis and Partial Differential Equations Seminar, USA, April 1, 2013, invited talk

2009-2012

- **University of Illinois at Urbana-Champaign**, Dynamical Systems and Ergodic Theory Seminar, October 22, 2012, invited talk
- **9th AIMS Conference** on Dynamical Systems, Differential Equations and Applications, Orlando, FL, USA July 1-5, 2012. Invited talks: special sessions
#63 Infinite Dimensional Dynamics and Applications (organizers J. C. Robinson, Y. You),
#77 The Navier-Stokes Equations and Related Problems (organizers S. Necasova, R. Rautmann, W. Varnhorn).
- **9th El Escorial Conference on Harmonic Analysis and PDEs**, Madrid, Spain, June 11-15, 2012, selected short talk
- **Southeastern Analysis Meeting**, March 8-10, 2012, University of Alabama, Tuscaloosa, AL, USA.
- **University of Toledo**, OH, USA, Dynamical Systems Seminar, November 15, 2011, invited talk
- **AMS 2011 Spring Southeastern Section Meeting**, Statesboro, GA, March 12-13, 2011. Special Session on Harmonic Analysis and Applications (organizers D. Bilyk, L. De Carli, A. Stokolos, B. Wick), invited talk
- **Conference on Nonlinear Evolution Equations** Mondello, Palermo (Italy), June 8-11, 2010 (organizers G. Grillo et al.), invited talk

- **Conference on Mathematical Models and Analytical Problems for Special Materials**, July 9-11, 2009 (organizers P. Colli, C. Giorgi, M. Grasselli et al.), invited talk

4. Departmental and Professional Service

CONFERENCE/WORKSHOP ORGANIZATION

- **Virginia Harmonic Analysis Lab**, collaborative workshop, University of Virginia, Charlottesville VA, (in progress, target date April 2019)
- **American Institute of Mathematics** workshop “Sparse domination of Singular Integral operators”, San Jose, CA, October 9-13 2017, [workshop page](#), organizer with A. Culiuc, Y. Ou.
- **10th AIMS Conference** on Dynamical Systems, Differential Equations and Applications, July 7-11, 2014, Madrid, Spain. Special session on “Harmonic Analysis tools in Fluid Mechanics”, organizer with R. Temam and D. Wirosoetisno

SEMINARIAL AND DEPARTMENTAL ACTIVITY

- **University of Virginia**, faculty advisor for the local chapter of the Association for Women in Mathematics
- **University of Virginia** Learning Analysis seminar, co-organizer, Fall Semester 2016
- **University of Virginia** Analysis seminar, co-organizer, Academic Year 2016-17
- **Brown University** organizer of an Harmonic Analysis research seminar for graduate and undergraduate students in Mathematics, Academic Years 2014-15, 2015-16
- **Brown University** Analysis seminar, co-organizer, Academic Years 2014-15, 2015-16
- **Indiana University** Graduate Student seminar] speaker and organizer (Fall 2010-2012)

EDITORIAL ACTIVITY AND PROFESSIONAL SERVICE

- Referee for the following journals (selection):
 - **2017**: Adv. Math., Journal d’Analyse, Transactions AMS, Indiana Univ. Math. J., Mathematika, Michigan Math. J.
 - **2016**: International Math. Res. Notices (IMRN), Analysis and PDE, Rev. Mat. Iberoamericana, Proceedings AMS, American J. of Math., J. European Math. Soc.
 - **2015**: J. European Math. Soc., Revista Matematica Iberoamericana, American J. of Math. (2), J. Geometric Analysis, Indiana Univ. Math. J., Boundary Value Problems, Monatshefte Math.
 - **2008-14**: Indiana Univ. Math. J, J. London Math. Soc., Asymptotic Analysis (2), J. of Differential Equations (3), Discrete and Continuous Dynamical Systems (2), Nonlinear Analysis (2)
- NSF Panelist, 2017.

5. Teaching, Advising and Mentoring

COURSES TAUGHT

- **Spring 2018, University of Virginia** MATH 7310 - Real analysis and linear spaces I (graduate course)
- **Spring 2018, University of Virginia** MATH 4720 - Introduction to Differential Geometry.
- **Fall 2017, University of Virginia** MATH 4220 - Partial Differential Equations and Applied Mathematics.
- **Fall 2016, University of Virginia** MATH 3310 - Basic Real Analysis
- **Fall 2016, University of Virginia** MATH 1320 - Calculus II
- **Spring 2016, Brown University** MA 0200 - Intermediate Calculus (2 sections) - Course Coordinator
- **Fall 2015, Brown University** MA 2210 - Real Function Theory (graduate course)
- **Spring 2015, Brown University** MA 0540 - Honors Linear Algebra, Instructor

- **Fall 2014, Brown University** MA 0170 - Advanced placement Calculus, Instructor
- **Fall 2014, Brown University** MA 1610 - Probability, Instructor
- **Fall 2012, Indiana University** Instructor, M119-Brief Survey of Calculus 1 (large section)
- **Summer 2012, Indiana University** Instructor, Jumpstart preparation for PhD Qualifying exams - Analysis
- **Spring 2012, Indiana University** Associate instructor, Graduate Real Analysis 2 - M512
- **Fall 2011, Indiana University** Associate instructor, Honors Calculus 3 - S311 and Calculus 2 - M212; Instructor, Gre Math Preparation - S499
- **Summer 2010, Indiana University** Instructor, Jumpstart preparation for PhD Qualifying exams - Analysis
- **Fall 2010, Indiana University** Associate instructor, Dynamical System and Ergodic Theory - M557 and Linear Algebra - M303
- **Academic Year 2007-08, Politecnico di Milano** Assistant Lecturer, Mathematical Analysis 1 and 2 and Differential Equations

ADVISING, PHD COMMITTEE MEMBERSHIPS

- **University of Helsinki** Emil J. Vuorinen, external reviewer for PhD dissertation (advisors T. Hytönen and H. Martikainen), expected defense May 2017.
- **Brown University** Amalia V. Culiuc, PhD Committee member (chair: Sergei Treil), graduated Spring 2016
- **Brown University** Max Mulitz, Undergraduate Honors thesis supervision, graduated Spring 2016

6. Miscellaneous activity and awards

OTHER COURSES AND ACTIVITIES

- Workshop for Women in Analysis and PDE, Institute for Mathematics and its Applications, University of Minnesota, May 30-June 2.
- NSF - UCLA Summer School on Geometric and Fourier analytic questions in Euclidean space, September 10–September 15, 2011 (organizer: C. Thiele)
- NSF - UCLA Summer/Fall School on Weighted Estimates for Singular Integrals, October 03 -October 08, 2010 (organizer: C. Thiele)
- SMI Summer School in Mathematics, August 2007. Courses attended: Functional Analysis (R. Lauge- sen, University of Illinois; final grade 30/30 *cum laude*), Differential equations (A. Visintin, Università di Trento; final grade 30/30).
- International Mathematics Olympiads, Italian National finalist, 2002.

AWARDS

- J. and F. M. Swain Fellowship, Indiana University, for outstanding graduate student research activity, Academic Year 2011-2012
- Robert E. Weber Memorial Award, Indiana University, for the Best Tier 1 Qualifying exams, Spring 2009
- Fondazione Fratelli Confalonieri Milano Master Thesis Award and Fellowship, EUR 6000, Academic Year 2007-2008

7. References

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