

Ai fini della pubblicazione

ANNA VIDOTTO
Curriculum Vitae

Education

Type	Year	Institution	Notes
University graduation	2015	Faculty of Mathematical, Physical and Natural Sciences, University of Rome "Tor Vergata"	Master's degree with honors in Pure and Applied Mathematics
University graduation	2012	Faculty of Information Technology, Computer Science and Statistics, University of Rome "La Sapienza"	Bachelor's degree with honors in Statistics, Economics and Finance
PhD	2018	University of Luxembourg, Faculty of Science, Technology and Communication	PhD degree in Mathematics, under the supervision of Professor Giovanni Peccati
Diploma	2009	Liceo Classico "T. Tasso", Roma	Diploma di Liceo Classico

Academic Appointments

Start	End	Institution	Position
02/2019	01/2020	Department of Mathematics, University of Rome Tor Vergata	PostDoc researcher (Assegnista di Ricerca)
02/2020	12/2021	Economics Department, University "G. D'Annunzio" Chieti-Pescara	Assistant Professor (RTD-A) in Probability (SSD MAT/06)
12/2021	Present	Mathematics and Applications Department, the University of Naples Federico II	Assistant Professor (RTD-A) in Probability (SSD MAT/06)

Languages: Italian (native), English

Teaching experience

Courses AY 2023/2024

- *Complementi di Probabilità e Statistica Matematica* (Professor - in Italian). Master Degree in Mathematics, University of Naples Federico II.

Courses AY 2022/2023

- *Complementi di Probabilità e Statistica Matematica* (Tutor - in Italian). Master Degree in Mathematics, University of Naples Federico II. Course held by Prof. Enrica Pirozzi

Courses AY 2019/2020

- *Analisi Matematica* (Professor - in Italian). Bachelor in Economics and Finance, Università degli Studi "G. D'Annunzio" Chieti-Pescara.
- *Geometria per il Design* (Professor - in Italian). Degree in Design, Università degli Studi "G. D'Annunzio" Chieti-Pescara.
- *Matematica Generale* (Tutor - in Italian). Bachelor in Economics and Finance, Tor Vergata University of Rome. Course held by Prof. Stefano Viaggiu

Courses AY 2017/2018

- *Analysis 1* (Tutor - in English). Bachelor in Engineering and Physics, University of Luxembourg. Course held by Prof. Hugo Parlier

Courses AY 2016/2017

- *Analysis 1* (Tutor - in English). Bachelor in Engineering and Physics, University of Luxembourg. Course held by Prof. Philippe Bonneau
- *Analysis 2* (Tutor - in English). Bachelor in Engineering and Physics, University of Luxembourg. Course held by Prof. Jean-Marc Schlenker

Courses AY 2015-2016

- *Analysis 2* (Tutor - in English). Bachelor in Engineering and Physics, University of Luxembourg. Course held by Prof. Jean-Marc Schlenker

Funding Information [grants as PI-principal investigator or I-investigator]

- INdAM - GNAMPA Project *Geometria di Onde Aleatorie su Varietà*, PI: A.P. Todino, 2024
- INdAM - GNAMPA Project *Geometria stocastica e campi aleatori*, PI: C. Durastanti, 2020
- MIUR Excellence Department Project awarded to the Department of Mathematics, University of Rome "Tor Vergata", CUP E83C18000100006, 2018-2022 (this project financed the postdoctoral scholarship at Uni Tor Vergata in 2019/2020)
- FNR Luxembourg - AFR Project *High-dimensional challenges and non-polynomial transformations in probabilistic approximations (HIGH-NPOL)*, 2015-2018

Summary of Scientific Achievements

Data Base: Scopus and Web of Science (Journal Citation Reports)

Total Impact Factor	9.816
Average Impact Factor	1.227
Total Citations	61
Average Citations per Product	7.625
Hirsch (H) index	5

Selected Publications

- 1.** M. Notarnicola, G. Peccati, A. Vidotto. Functional Convergence of Berry's Nodal Lengths: Approximate Tightness and Total Disorder, *Journal of Statistical Physics* 190, Article number: 97, 2023.
Journal IF: 1.3 Citations: 4
- 2.** A. Vidotto. Random Lipschitz-Killing Curvatures: Reduction Principles, Integration By Parts And Wiener Chaos, Special issue on the Theory and Applications of Random Fields dedicated to the 90th birthday of Prof. Yadrenko, Journal: *Theory of Probability and Mathematical Statistics*, vol. 106, 157-175, 2022.
Journal IF: 0.9 Citations: 2
- 3.** D. Marinucci, M. Rossi, A. Vidotto. Non-Universal Fluctuations of the Empirical Measure for Isotropic Stationary Fields on $S^2 \times \mathbb{R}$, *The Annals of Applied Probability*, vol. 31, no.5, 2311-2349, 2021.
Journal IF: 2.038 Citations: 7
- 4.** A. Vidotto. A Note on the Reduction Principle for the Nodal Length of Planar Random Waves, *Statistics and Probability Letters*, vol. 174, July 2021.
Journal IF: 0.718 Citations: 9
- 5.** A. Caponera, C. Durastanti, A. Vidotto. LASSO estimation for spherical autoregressive processes, *Stochastic Processes and their Applications*, vol. 137, 167-199, July 2021.
Journal IF: 1.430 Citations: 5
- 6.** G. Peccati, A. Vidotto. Gaussian Random Measures Generated by Berry's Nodal Sets, *Journal of Statistical Physics*, vol. 178, no. 4, 996-1027, 2020.
Journal IF: 1.548 Citations: 12
- 7.** A. Vidotto. An improved second order Poincaré inequality for functionals of Gaussian fields, *Journal of Theoretical Probability*, vol. 33, no. 1, 396-427, 2020.
Journal IF: 0.888 Citations: 8

8. C. Döbler, A. Vidotto, G. Zheng. Fourth moment theorems on the Poisson space in any dimension, *Electronic Journal of Probability* 2018, vol. 23, paper no. 36, 1-27.
Journal IF: 0.994 Citations: 14

...in the process of being published:

9. D. Marinucci, M. Rossi, A. Vidotto. Fluctuations of Level Curves for Time-Dependent Spherical Random Fields, preprint [arXiv:2207.13028](https://arxiv.org/abs/2207.13028), to appear on the *Annales Henri Lebesgue*, 2024+

10. C. Macci, M. Rossi, A. Vidotto. Non-Universal Moderate Deviation Principle for the Nodal Length of Arithmetic Random Waves, preprint [arXiv:2206.15108](https://arxiv.org/abs/2206.15108), to appear on *ALEA Journal*, 2024+

Preprints

11. A. Caponera, D. Marinucci, A. Vidotto. MultiScale CUSUM Tests for Time-Dependent Spherical Random Fields, preprint [arXiv:2305.01392](https://arxiv.org/abs/2305.01392), 2023

12. G. Ascione, A. Vidotto. Time Changed Spherical Brownian Motions with Longitudinal Drifts, preprint [arXiv:2403.05202](https://arxiv.org/abs/2403.05202), 2024

Organizational duties

- Organizer of the session *Probabilistic approximations via chaotic decompositions* at the *Third Italian meeting on Probability and Mathematical Statistics*, Bologna, June 13th-16th 2022
- March 1st, 2019: organizer of the first Math Career Day at the Department of Mathematics of University of Rome Tor Vergata
- February 2019 - January 2020: organizer of the Probability and Mathematical Statistics Talks for the Department of Mathematics of University of Rome Tor Vergata
- Organizer of the session *New applications of the Stein-Malliavin method for Gaussian approximation* at the *Second Italian meeting on Probability and Mathematical Statistics*, Vietri sul Mare, June 17th-21st 2019
- Referee for the following journals: *Statistics and Probability Letters*, *Electronic Journal of Statistics*, *Stochastic Processes and their Applications*, *Journal of Computational and Applied Mathematics*

Invited talks

Future

- Invited speaker at the conference *Analysis & Geometry of Random Fields*. Rome, 4-6 September 2024.
- Invited speaker at the session *Statistics for Geosciences* at CFE-CMStatistics 2024, King's College London, 14-16 December 2024.
- Invited speaker at the International Conference PRIN GRAFIA. Cortona, June 2025.

Past

- Invited speaker at the special session *Analysis, control and inverse problems in climate sciences*, at the AMS-UMI international joint meeting. Palermo, 23-26 July 2024
- Invited speaker at the European Congress of Mathematics mini-symposium *Non-local operators and stochastic processes: fractional processes, random fields, and applications*. Sevilla, 15-19 July 2024.
- Invited speaker at the session *Random Fields*, Fourth Italian Meeting on Probability and Mathematical Statistics. Rome, 10-14 June 2024.
- Invited speaker at the *Stochastics Seminars of the Department of Mathematical Sciences*, University of Liverpool, May 17th 2024
- Invited speaker at the webinars of the UMI group *PRISMA (PProbability In Statistics, Mathematics and Applications)*, May 6th 2024
- Invited speaker at the conference *Geometric and Topological Properties of Random Algebraic Varieties*, University of Cologne, October 4th-6th 2023
- Invited speaker at the Probability and Statistics session of the *XXII Congresso UMI*, University of Pisa, September 4th-8th
- Invited speaker at the *Probability Seminar of the Department of Statistical Sciences*, University of Rome La Sapienza, June 23rd 2023
- Invited speaker at the conference *Random Nodal Domains*, University of Rennes, June 5th-9th 2021
- Invited speaker at the workshop *Stochastic Models for Complex Systems 2023*, Lecce, May 18th-19th 2023
- Invited speaker at the session *Probabilistic and statistical properties of sphere-cross-time random fields*, Third Italian meeting on Probability and Mathematical Statistics, Bologna, June 13th-16th 2022
- Invited speaker at the *Probability Seminar* of the University of Padua, May 25th 2022
- Invited speaker at the *Statistics Seminar* of the Trinity College Dublin, April 6th 2022
- Invited speaker at the conference *Geometry of Random Nodal Domains*, University of Rennes, September 6th-10th 2021
- Invited speaker at the session *Recent developments in stochastic geometry*, Second Italian meeting on Probability and Mathematical Statistics, Vietri sul Mare, June 17th-21st 2019
- Invited speaker at the *Young Mathematicians Symposium of the Greater Region*, INRIA, Nancy, September 24th-25th 2018
- Invited speaker at the RTG 2131 Workshop: *Stein's method and Malliavin calculus, recent developments and future perspectives*, Ruhr Universität Bochum, December 6th-7th 2017
- Invited speaker at the session *Limit Theorems in Probability and Applications*, First Italian meeting on Probability and Statistical Mathematics, Turin, June 19th-22nd 2017

Conferences and schools

- German Probability and Statistics Days 2016, Bochum (Germany), March 1st-4th, 2016
- 46th Probability Summer School Saint-Flour (France), July 3rd - 15th 2016
- 9th Probability Summer School in Ghiffa (Italy), organized by Prof. Peter Eichelsbacher, September 20th-27th 2016
- The Mathematics of Disorder, University of Bonn, October 4th-8th 2016
- Random matrices and their applications, Kyoto University, May 21st-25th 2018
- Spring Probability Workshop, Institute of Mathematics, Academia Sinica, Taipei, Taiwan, June 4th-8th 2018
- Random Waves in Oxford, University of Oxford, June 18th-22nd 2018
- 4th Barcelona Summer School on Stochastic Analysis: a 2018 EMS Summer School, Centre de Recerca Matemàtica, Bellaterra (Barcelona), Spain, July 9th-13th 2018
- Recent Advances in Random Processes - a conference in honor of Paolo Baldi's 70th birthday, Rome, September 10th-11th 2018
- Mathematical Models and Methods in Earth and Space Science, Department of Mathematics, University of Rome Tor Vergata, March 19th-22nd 2019
- Recent Trends in Stochastic Analysis and SPDEs, Department di Mathematics, University of Pisa, July 18th-20th 2019
- Conference on random nodal sets, University of Rennes 1, Sept. 9th-13th 2019