

UNIVERSITÀ DEGLI STUDI DI MILANO
selezione pubblica per n.1 posto di Ricercatore a tempo determinato in tenure track (RTT)
per il settore concorsuale 01/A3,
settore scientifico-disciplinare MAT/06,
presso il Dipartimento di Matematica “Federico Enriques”,
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ANNA VIDOTTO
Curriculum Vitae

Rome, 27/05/2024

General Information

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| Cognome | Vidotto |
| Nome | Anna |
| Data Di Nascita | 12/03/1990 |

FORMAZIONE

| 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 |

RICERCA

| Start | End | Institution | Position |
|---------|---|---|--|
| 02/2019 | 01/2020 | Department of Mathematics, University of Rome Tor Vergata | Assegnista di Ricerca nel S.S.D. MAT/06 |
| 02/2020 | 12/2021 Congedo obbligatorio per maternità dal 19/11/2020 fino al 28/04/2021 | Dipartimento di Economia, Università "G. D'Annunzio" Chieti-Pescara | Ricercatrice a tempo determinato di cui all'articolo 24, comma 3, lettera a), Legge 240 del 2010 (RTD-A) nel S.S.D. MAT/06 |
| 12/2021 | Attualmente in corso Congedo obbligatorio per maternità dal 28/09/2022 fino al 27/02/2023 | Dipartimento di Matematica e Applicazioni, Università di Napoli Federico II | Ricercatrice a tempo determinato di cui all'articolo 24, comma 3, lettera a), Legge 240 del 2010 (RTD-A) nel S.S.D. MAT/06 |

ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

1. Titolare del corso Complementi di Probabilità e Statistica Matematica da 6 CFU, 48 ore. Insegnamento in lingua italiana. Laurea Magistrale in Matematica, Università di Napoli Federico II. Anno accademico 2023/2024, primo semestre.
2. Tutor del corso Complementi di Probabilità e Statistica Matematica, 24 ore. Insegnamento in lingua italiana. Laurea Magistrale in Matematica, Università di Napoli Federico II. Anno accademico 2022/2023, secondo semestre. Titolare del corso: Prof. Enrica Pirozzi.
3. Titolare del corso Analisi Matematica da 6 CFU, 48 ore. Insegnamento in lingua italiana. Laurea Triennale in Economia e Finanza, Università degli Studi "G. D'Annunzio" Chieti-Pescara. Anno accademico 2019/2020, secondo semestre.
4. Titolare del corso Geometria per il Design, 2 CFU, 16 ore. Insegnamento in lingua italiana. Laurea in Design, Università degli Studi "G. D'Annunzio" Chieti-Pescara. Anno accademico 2019/2020, secondo semestre.
5. Tutor del corso Matematica Generale, 24 ore. Laurea Triennale in Economia e Finanza, Università di Roma Tor Vergata. Anno accademico 2019/2020, primo semestre. Titolare del corso: Prof. Stefano Viaggiu.
6. Tutor del corso Analysis 1, 24 ore. Insegnamento in lingua inglese. Laurea Triennale in Ingegneria e Fisica, Università del Lussemburgo. Anno accademico 2017/2018, primo semestre. Titolare del corso: Prof. Hugo Parlier.

7. Tutor del corso Analysis 2, 24 ore. Insegnamento in lingua inglese. Laurea Triennale in Ingegneria e Fisica, Università del Lussemburgo. Anno accademico 2016/2017, secondo semestre. Titolare del corso: Prof. Philippe Bonneau.
8. Tutor del corso Analysis 1, 24 ore. Insegnamento in lingua inglese. Laurea Triennale in Ingegneria e Fisica, Università del Lussemburgo. Anno accademico 2016/2017, primo semestre. Titolare del corso: Prof. Jean-Marc Schlenker.
9. Tutor del corso Analysis 2, 24 ore. Insegnamento in lingua inglese. Laurea Triennale in Ingegneria e Fisica, Università del Lussemburgo. Anno accademico 2015/2016, secondo semestre. Titolare del corso: Prof. Jean-Marc Schlenker.

PROGETTI DI RICERCA

- 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

INDICATORI

Data Base: Scopus and Web of Science

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|-------------------------------|--------|
| Total Impact Factor | 9.557 |
| Average Impact Factor | 1.1946 |
| Total Citations | 57 |
| Average Citations per Product | 7.125 |
| Hirsch (H) index | 5 |

PUBBLICAZIONI SCIENTIFICHE

Articoli già pubblicati

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. ISSN: 0022-4715, doi: 10.1007/s10955-023-03111-9
Journal IF: 1.6 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. ISSN: 0094-9000, doi: 10.1090/tpms/1170
Journal IF: 0.341 Citations: 1

- 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. ISSN: 1050-5164, doi: 10.1214/20-AAP1648
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. ISSN: 0167-7152, doi: 10.1016/j.spl.2021.109090
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. ISSN: 0304-4149, doi: 10.1016/j.spa.2021.03.009
Journal IF: 1.430 Citations: 4

- 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. ISSN: 0022-4715, doi: 10.1007/s10955-019-02477-z
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. ISSN: 0894-9840, doi: 10.1007/s10959-019-00883-3
Journal IF: 0.888 Citations: 7

- 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. ISSN: 1083-6489, doi: 10.1214/18-EJP168
Journal IF: 0.994 Citations: 13

Articoli in fase di pubblicazione

- 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+

Preprint

- 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, 2024

COMPITI ORGANIZZATIVI

- 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*

ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

Future

- Invited speaker at the session *Random Fields*, Fourth Italian Meeting on Probability and Mathematical Statistics. Rome, 10-14 June 2024.
- 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 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.

Passate

- 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 (PRObability 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

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000)

La sottoscritta Anna Vidotto, ai sensi e per gli effetti degli articoli 46 e 47 e consapevole delle sanzioni penali previste dall'articolo 76 del D.P.R. 28 dicembre 2000, n. 445 nelle ipotesi di falsità in atti e dichiarazioni mendaci, dichiara che le informazioni riportate nel presente curriculum vitae corrispondono a verità.

Rome, 27/05/2024

