Laura Angeloni

CURRICULUM VITAE

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Personal information

Name: Laura
Surname: Angeloni
Place and date of birth: Todi (PG), November 16, 1976
Address: Via Quintino Sella, n.75, 06131, Perugia (Italy)
E-mail: laura.angeloni@unipg.it
Languages: English, French
Current position: Associate Professor in Mathematical Analysis (MATH-03/A), Department of Mathematics and Computer Science, University of Perugia

Education

- 1995 – High School Diploma (Classical Studies), final grade: 60/60.
- 1997 – Piano Diploma, State Conservatory of Music of Perugia.
- 2000 – Master's Degree in Mathematics, University of Perugia, with honors (110/110 *cum laude*). Thesis title: "Separation techniques in Lp spaces".
- 2004 – Ph.D. in "Applied Mathematics" (Université Paris I "Panthéon-Sorbonne") and in "Mathematical and Statistical Methods for Economic and Social Research" (University of Perugia), final grade: "Mention très honorable avec félicitations du jury - Proposition pour un prix de thèse", joint supervision and double title. Thesis' title: "Separation methods in mathematical economics: Edgeworth Equivalence, arbitrage and asymmetric information". Supervisors: Prof. B. Cornet (Univ. Paris I), Prof. A. Martellotti (Univ. Perugia).

Competitions, Training and Awards

- 1995 – Winner of the "Ing. F. Todini" scholarship.
- 2000 – Summer Course in Mathematics, Interuniversity School of Mathematics (SMI), Perugia. Courses: Functional analysis (Prof. M.Picardello), Probability (Prof. R. Vitale). Final grades: A, A.
- 2001 – Research internship, Université Paris I "Panthéon-Sorbonne", Paris.
- 2003 – Winner of a two-year research grant on "Real analysis and measure theory: mathematical models for signal reconstruction", University of Perugia (renewed in 2005 and 2006).
- 2007 – Assistant Professor (Mathematical Analysis, MAT/05), Faculty of Engineering, University of Perugia; tenure confirmed on September 1, 2010.
- 2017 – National Scientific Qualification (ASN) as Associate Professor in the sector 01/A3 "Mathematical Analysis, Probability and Mathematical Statistics".

- 2017 – Winner of the "Annual Prize for Young Researchers" (University of Perugia) for the paper: L. Angeloni, *Approximation results with respect to multidimensional phi-variation for nonlinear integral operators*, Z. Anal. Anwend., 32(1) (2013), 103–128.
- 2018 – Associate Professor in Mathematical Analysis (SSD MAT/05), Department of Mathematics and Computer Science, University of Perugia.

Research Interests

Functional Analysis and Approximation Theory in Function Spaces:

- Approximation problems, estimates and modular convergence in L^p, Orlicz, Musielak-Orlicz and modular spaces for nonlinear integral operators on locally compact topological groups; order of approximation in Lipschitz classes.
- Discrete applications to "generalized sampling series" for signal reconstruction and prediction.
- Approximation estimates and convergence for linear and nonlinear convolution-type integral operators in spaces of functions of bounded variation (classical, Tonelli, and Musielak-Orlicz φ-variation).
- Operator theory in function spaces.
- Multidimensional extensions of the φ-variation, convergence results for Mellin operators, characterization of absolute continuity, Riesz-Medvedev variation, sampling-Kantorovich operators, exponential-type polynomial operators, Voronovskaja-type estimates and shape-preserving properties.

Measure Theory and Applications to Economics:

- Core-Walras equivalence in infinite-dimensional settings.
- Equilibria and private-core in models with asymmetric information.
- Existence of financial equilibria in multi-period economic models.

Papers

1. **L. Angeloni, A. Martellotti,** *A separation theorem with applications to Edgeworth equivalence in some infinite dimensional setting*, Commentationes Mathematicae Prace Mat., **44**(2) (2004), 227–243.
2. **L. Angeloni, G. Vinti,** *A unified approach to approximation results with applications to nonlinear sampling theory*, International Journal of Mathematical Sciences, **3**(1) (2004), 93–128.
3. **L. Angeloni, G. Vinti,** *Rate of approximation for nonlinear integral operators with application to signal processing*, Differential and Integral Equations, **18**(8) (2005), 855–890.
4. **L. Angeloni,** *Separation methods in mathematical economics: Edgeworth Equivalence, arbitrage and asymmetric information*, Tesi di dottorato, di cui è apparso un estratto dal titolo *Metodi di separazione in economia matematica: uguaglianza di Edgeworth, arbitraggio ed informazione asimmetrica* nel fascicolo speciale del Bollettino della Unione Matematica Italiana dedicato alle tesi di dottorato discusse nell'anno 2004 (2005).
5. **L. Angeloni, B. Cornet,** *Existence of Financial Equilibria in a Multiperiod Stochastic Economy*, Advances in Mathematical Economics, **8** (2006), 1–31.
6. **L. Angeloni, G. Vinti,** *Convergence in Variation and Rate of Approximation for Nonlinear Integral Operators of Convolution Type*, Results in Mathematics, **49** (2006), 1–23; DOI: 10.1007/s00025-006-0208-2. Erratum: **57** (2010), 387–391.
7. **L. Angeloni, A. Martellotti,** *Non-coalitional Core-Walras equivalence in finitely additive*

economies with extremely desirable commodities, Mediterranean Journal of Mathematics, **4**(1) (2007), 87–107.

8. **L. Angeloni, G. Vinti,** *Approximation by means of nonlinear integral operators in the space of functions with bounded $\varphi-$variation*, Differential and Integral Equations, **20**(3) (2007), 339–360. Erratum: **23**(7-8) (2010), 795–799.
9. **L. Angeloni, V.F. Martins-da-Rocha,** *Large economies with differential information and without free disposal*, Economic Theory, **38**(2) (2009), 263–286, DOI: 10.1007/s00199-008-0369-1.
10. **L. Angeloni, G. Vinti,** *Convergence and rate of approximation for linear integral operators in $BV^{\varphi}-$spaces in multidimensional setting*, Journal of Mathematical Analysis and Applications, **349**(2) (2009), 317–334, DOI:10.1016/j.jmaa.2008.08.029.
11. **L. Angeloni, G. Vinti,** *Approximation with respect to Goffman-Serrin variation by means of non-convolution integral operators*, Numerical Functional Analysis and Optimization, **31** (2010), 519–548.
12. **L. Angeloni,** *A characterization of a modulus of smoothness in multidimensional setting*, Bollettino dell'Unione Matematica Italiana, Serie IX, **4** (1) (2011), 79–108.
13. **L. Angeloni,** *Convergence in variation for a homothetic modulus of smoothness in multidimensional setting*, Communications on Applied Nonlinear Analysis, **19**(1) (2012), 1–22.
14. **L. Angeloni,** *Approximation results with respect to multidimensional φ-variation for nonlinear integral operators*, Zeitschrift für Analysis und ihre Anwendungen (Journal for Analysis and its Applications), **32**(1) (2013), 103–128.
15. **L. Angeloni, G. Vinti,** *A sufficient condition for the convergence of a certain modulus of smoothness in multidimensional setting*, Communications on Applied Nonlinear Analysis, **20**(1) (2013), 1–20.
16. **L. Angeloni, G. Vinti,** *Approximation in variation by homothetic operators in multidimensional setting*, Differential and Integral Equation, **26**(5-6) (2013), 655–674.
17. **L. Angeloni, G. Vinti,** *Variation and approximation for Mellin-type operators*, In: Proceeding of SampTA2013. 10th International Conference on Sampling Theory and Applications, EURASIP, 2013, 178–181.
18. **L. Angeloni, G. Vinti,** *Variation and approximation in multidimensional setting for Mellin integral operators,* Applied and Numerical Harmonic Analysis, Special issue: New Perspectives on Approximation and Sampling Theory-Festschrift in honor of Paul Butzer's 85th birthday, Birkhauser, 2014, 299–317.
19. **L. Angeloni, G. Vinti,** *Convergence and rate of approximation in $BV^{\varphi}(\mathbb{R}^N_+)$ for a class of Mellin integral operators,* Atti della Accademia Nazionale dei Lincei. Classe di Scienze Fisiche, Matematiche e Naturali. Rendiconti Lincei. (9) Mat. Appl., **25** (2014), 217–232.
20. **L. Angeloni, G. Vinti,** *Approximation in variation for nonlinear Mellin integral operators in multidimensional setting*, In: Recent Advances in Applied Mathematics, Modelling and Simulation, Proceedings of the 8th International Conference on Applied Mathematics, Simulation and Modelling (ASM '14), WSEAS Press, 2014, 199–203.
21. **L. Angeloni, G. Vinti,** *A characterization of absolute continuity by means of Mellin integral operators*, Zeitschrift für Analysis und ihre Anwendungen (Journal for Analysis and its Applications), **34**(3) (2015), 343–356.
22. **L. Angeloni, G. Vinti,** *Approximation in variation for Mellin integral operators*, PAMM (Proceedings in Applied Mathematics and Mechanics), **15** (2015), 649–650, DOI: 10.1002/pamm.2015103142015.
23. **L. Angeloni, G. Vinti,** *Convergence in variation and a characterization of the absolute continuity*,

Integral Transforms and Special Functions, **26**(10) (2015), 829–844.
24. **L. Angeloni, G. Vinti,** *A concept of absolute continuity and its characterization in terms of convergence in variation,* Mathematische Nachrichten, 289(16) (2016), 1986–1994, DOI 10.1002/mana.201500271.
25. **L. Angeloni, G. Vinti,** *A review on approximation results for integral operators in the space of functions of bounded variation*, Journal of Function Spaces, Article ID 3843921 (2016), 11 pp.
26. **L. Angeloni,** *A new concept of multidimensional variation in the sense of Riesz and applications to integral operators*, Mediterranean Journal of Mathematics, **14** 149 (2017).
27. **L. Angeloni, G. Vinti,** *Discrete operators of sampling type and approximation in $\varphi-$variation*, Mathematische Nachrichten, **291** (2018), 546–555, DOI: 10.1002/mana.201600508.
28. **L. Angeloni, D. Costarelli, G. Vinti,** *A characterization of the convergence in variation for the generalized sampling series*, Annales Academiae Scientiarum Fennicae Mathematica, **43** (2018), 755–767.
29. **L. Angeloni, D. Costarelli, G. Vinti,** *A Characterization of the Absolute Continuity in Terms of Convergence in Variation for the Sampling Kantorovich Operators*, Mediterranean Journal of Mathematics, 16: 44. DOI: 10.1007/s00009-019-1315-0 (2019).
30. **L. Angeloni, D. Costarelli, G. Vinti,** *Quantitative estimates for sampling type operators with respect to the Jordan variation*, Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl., **31**(2) (2020), 269–284.
31. **L. Angeloni, E. Liflyand, G. Vinti,** *Real Hardy Space, Multidimensional Variations, and Integrability of the Fourier Transform*, Complex Anal. Oper. Theory, **1**4(6), article n. 64, (2020). DOI: 10.1007/s11785-020-01021-2.
32. **L. Angeloni, J. Appell, S. Reinwand**, *Some Remarks on Vainikko Integral Operators in BV Type Spaces*, Boll. Unione Mat. Ital., Special Issue "Measure, Integration and Applications" dedicated to Prof. Domenico Candeloro, **13** (2020), 555–565. DOI: 10.1007/s40574-020-00248-3.
33. **L. Angeloni, D. Costarelli, G. Vinti**, *Convergence in variation for the multidimensional generalized sampling series and applications to smoothing for digital image processing*, Ann. Acad. Sci. Fenn. Math., **45** (2020), 75–770.
34. **L. Angeloni, D. Costarelli, M. Seracini, G. Vinti, L. Zampogni**, *Variation diminishing-type properties for multivariate sampling Kantorovich operators*, Boll. Unione Mat. Ital., Special Issue "Measure, Integration and Applications" dedicated to Prof. Domenico Candeloro, **13** (2020), 595–605. DOI: https://doi.org/10.1007/s40574-020-00256-3
35. **L. Angeloni, D. Costarelli, G. Vinti**, *Approximation properties of mixed sampling-Kantorovich operators*, R. Acad. Cienc. Exactas Fis. Nat. Serie A. Matemáticas, **115** article n. 4 (2021). DOI: 10.1007/s13398-020-00936-x.
36. **L. Angeloni, N. Cetin, D. Costarelli, A.R. Sambucini, G. Vinti**, *Multivariate sampling Kantorovich operators: quantitative estimates in Orlicz spaces, Constructive Mathematical Analysis*, **4**(2) (2021), 229–241.
37. **L. Angeloni, C. Conti, S. De Marchi, E. Francomano, G. Vinti,** *Multivariate approximation: Theory and applications 2020*, Dolomites Research Notes on Approximation, **14**(2) (2021), I-II.
38. **L. Angeloni, G. Vinti**, *Estimates in variation for multivariate sampling-type operators*, Dolomites Research Notes on Approximation, **14**(2) (2021), 1–9. DOI: 10.14658/pupj-phrg-2021-2-2.
39. **L. Angeloni, J. Appell, T. D. Benavides, S. Reinwand, G. Vinti**, *Compactness properties of multiplication and substitution operators*, J. Operator Theory, **89**(1) (2023), 23-48.
40. **L. Angeloni, N. Merentes, M.A. Valera López**, *Convolution Integral Operators in Variable*

Bounded Variation Spaces, Mediterr. J. Math., 20:141 (2023). DOI: https://doi.org/10.1007/s00009-023-02358-6.

41. **L. Angeloni, G. Vinti**, *Multidimensional sampling-Kantorovich operators in BV-spaces*, Open Mathematics, 21(1) (2023), pp. 20220573.
42. **L. Angeloni, D. Costarelli**, *Approximation by exponential-type polynomials*, Journal of Mathematical Analysis and Applications, **532**(1) (2024), art. no. 127927.
43. **L. Angeloni, E. Liflyand, G. Vinti,** *Variation type characterization of product Hardy spaces*, Analysis and Mathematical Physics, **14**(12) (2024). DOI: s13324-024-00869-3.
44. **L. Angeloni, D.D. Bloisi, P. Burghignoli, D. Comite, D. Costarelli, M. Piconi, A.R. Sambucini, A. Veneri, A. Troiani,** *Microwave Remote Sensing of Soil Moisture, Above Ground Biomass and Freeze-Thaw Dynamic: Modeling and Empirical Approaches*, Modern Mathematical Methods, 3(2) (2025) 57–71.
45. **L. Angeloni, D. Costarelli, C. Darielli**, *Approximation processes by multidimensional Bernstein-type exponential polynomials on the hypercube*, R. Acad. Cienc. Exactas Fis. Nat. Serie A. Matemáticas, 119 art n. 28 (2025). DOI: s13398-024-01693-x.
46. **L. Angeloni, F. Vici**, *Approximation methods in BV for nonlinear generalized sampling series*, Results Math., 80 (2025), art n. 99. DOI: 10.1007/s00025-025-02416-3.
47. **L. Angeloni, D. Costarelli, C. Darielli**, *A new class of positive linear operators preserving logarithmic functions*, submitted (2025).
48. **G. Aiello, L. Angeloni, G. Vinti**, *Durrmeyer sampling-type operators: approximation in variation*, accepted on Journal of Pseudo-differential operators and applications (2026).

Conferences and Congresses

Invited talks:

- Workshop "Functional Analysis Methods in Economics and Finance", Cetraro (Cosenza), 7-9 July 2005, with an invited talk titled "Arbitrage and Equilibria in a Multi-period Stochastic Economy".
- AMS Joint Mathematics Meetings, San Francisco (CA - USA), 13-16 January 2010, with an invited talk titled "Convergence and Rate of Approximation for Generalized Sampling-type Operators in Orlicz Spaces".
- 8th NAUN Conference on Applied mathematics, Simulation, Modelling (ASM'14), Firenze, 22-24 November 2014, with an invited talk titled "Approximation in variation for nonlinear Mellin integral operators in multidimensional setting".
- GAMM 2015 - 86th Annual Meeting of the International Association of Applied Mathematics and Mechanics, Lecce, 23-27 March 2015, with an invited talk titled "Approximation in variation for nonlinear Mellin integral operators".
- Convegno Scientifico GNAMPA 2016, Montecatini Terme, 20-23 June 2016, with an invited talk titled "Metodi di Approssimazione per il Digital Image Processing e Applicazioni".
- 8ECM 8th European Congress of Mathematics, Portoroz (Slovenia), 20-26 June 2021, online conference, with an invited talk titled "Variation diminishing type estimates for generalized sampling operators and applications".
- FAATNA 20>22 Functional Analysis, Approximation Theory and Differential Equations, Matera, 5-8 July 2022, with an invited talk titled "BV spaces, sampling-type operators and approximation methods".
- Invited talk at the University of Oradea (Romania), May 2023, titled "Approximation methods by means of sampling-type operators in BV-spaces".

- Multivariate approximation, discretization, and sampling recovery, Isaac Newton Institute of Mathematics, Cambridge (UK), 15-18 July 2024, with an invited talk titled "Multidimensional sampling-type operators in the spaces of functions of bounded variation".
- AMS-UMI International Joint Meeting 2024, Palermo, 23–26 July 2024, with an invited talk within the session "Approximation Theory and Application" titled "Variation, approximation, sampling-type operators".
- Invited speaker at the "Workshop on Approximation Methods and Applications-WAMA 2024", University of Bari, 5-6 December 2024, with a conference titled "Approximation methods by means of some Kantorovich-type polynomials and operators".
- 3rd International Conference: Constructive Mathematical Analysis (ICCMA'25), Konya (Turkey), 2-5 July 2025, with an invited talk titled "On some families of exponential type polynomials".

Conference participation and talks:

- "Real Analysis and Measure Theory", Grado (Italy), 2001 (Separation techniques in L^p spaces).
- X C.A.R.Te.Mi, Ischia (Italy), 2002 (A separation theorem with applications in $L^\infty(\mu)$).
- "Current Trends in Economics" and "Positivity", 2003 SAET conferences, Rodi (Greece), 2003 (A separation theorem with applications to Edgeworth Equivalence in some infinite dimensional setting).
- "Real Analysis and Measure Theory", Mondello (Italy), 2003 (A unified approach to approximation results with applications to nonlinear sampling theory).
- XVII Congresso dell'Unione Matematica Italiana, Milano (Italy), 2003 (Un approccio unificante per risultati di approssimazione con applicazioni alla teoria dei segnali).
- V FAAT (5th International Conference on Functional Analysis and Approximation Theory), Acquafredda di Maratea (Italy), 2004 (Rate of Approximation in Modular Spaces for Nonlinear Integral Operators).
- XI C.A.R.Te.Mi, Ischia (Italy), 2004 (Rate of approximation for nonlinear integral operators with application to signal processing).
- "III convegno annuale del Dipartimento di Matematica e Informatica", Perugia (Italy), 2004 (Equilibrio e asimmetria dell'informazione in modelli economici multi-periodo).
- SMAI 2005, Evian-les-Bains (France), 2005 (Existence of financial equilibria in a T-period stochastic economy).
- SampTa 2005 (International workshop on Sampling theory and applications), Samsun (Turkey), 2005 (Rate of Approximation for Generalized Sampling-type Operators: Theory - Part I).
- Function Spaces VIII, Bedlewo (Poland), 2006 (Approximation problems in spaces of functions with bounded variation).
- Joint International Meeting UMI-DMV, Perugia, 2007.
- XVIII Congresso dell'Unione Matematica Italiana, Bari (Italy), 2007 (Convergenza e approssimazione in spazi di funzioni a φ-variazione limitata).
- Geometric Function Theory and Nonlinear Analysis, Ischia (NA), 2007.
- Functional Analysis: Methods and Applications, Amantea (CZ), 2008 (Convergence and order of approximation for integral operators in spaces of functions with bounded variation).
- IX Congresso dell'Unione Matematica Italiana, Bologna, 2011 (Su un nuovo concetto di variazione multidimensionale e alcuni risultati di convergenza).
- Recent Developments in Functional Analysis and Approximation Theory, Lecce, 22-24 September 2011.
- III Jaen Conference on Approximation", Ubeda (Spain), 16-20 July 2012, talk titled "Approximation results with respect to multidimensional $\varphi-$variation".

- XX Congresso dell'Unione Matematica Italiana, Siena, 7-12 September 2015, talk titled "Approssimazione in variazione e caratterizzazioni dell'assoluta continuità".
- School & Research Workshop "Mathematical Modeling of Self-Organizations in Medicine, Biology and Ecology: from micro to macro", Giardini Naxos, 18-21 September 2017, talk titled "Approximation in variation for the generalized sampling series".
- Talk titled "Approssimazione in variazione per operatori di tipo sampling" Department of Mathematics and Computer Science, University of Perugia, 26 Sepmteber 2017.
- SIAM Conference on Imaging Science (IS18), Bologna, 5-7 June 2018.
- Joint Meeting UMI-SIMAI-PTM 2018, Wroclaw (Poland), 17-20 September 2018, talk titled "Approximation in variation for sampling-type operators".
- AMTA 2019 - Approssimazione Multivariata: Teoria ed Applicazioni, Napoli, 24-26 January 2019, talk titled "Sampling type operators: approximation results in variation".
- XXI Congresso dell'Unione Matematica Italiana, Pavia, 2-6 September 2019, talk titled "Spazi BV, approssimazione tramite serie sampling generalizzate ed applicazioni".
- Workshop on Analysis and Applications, (online Workshop) 29 May 2021, talk titled "Estimates in variation for sampling-type operators in multidimensional frame".
- ATMA 2021 - Approximation: Theory, Methods, and Applications, Reggio Calabria, 10-12 November 2021, talk titled "Estimates in variation for multidimensional sampling-type operators and applications".
- 100 years UMI - 800 years UniPD, Padova, 25-27 May 2022.
- ATMA 2023 - Approximation: Theory, Methods and Applications, Padova, 18-20 January 2023.
- ATMA 2024 - Approximation: Theory, Methods and Applications, Lecce, 11-14 June 2024.
- Workshop on Variational Problems and PDEs, Napoli, 19-20 June 2025.
- Modern Perspectives in Approximation Theory: Graphs, Networks, quasi-interpolation and Sampling Theory, Cetraro (CS), 21-24 July 2025.

Conference Organization:

- Member of the Scientific Committee of "AMTA2026 – Approximation: Theory, Methods and Applications" (Rende, 2026).
- Member of the Scientific Committee of "AMTA2024" (Lecce, 2024).
- Scientific Committee member and organizer of the PRIN 2022 PNRR Project Kick-off Meeting RETINA (Perugia, 2024).
- Member of the Scientific and Organizing Committee of the "RITA Young Researchers Meeting" (online, 2024).
- Scientific Committee member of the "International Conference on Approximation Theory and Applications" (Cetraro, 2023).
- Organizer of the "Young Researchers@DMI" Workshop (Perugia, 2023).
- Member of the Organizing Committee of the conference "MATA2020 – Multivariate Approximation: Theory and Applications" (Perugia, 2020).
- Member of the Organizing Committee of "Workshop on Analysis and Applications" (online, 2021).
- Member of the Organizing Committee of the annual departmental conferences, Dep. of Mathematics and Computer Science (2004, 2006).

Teaching Activities

PhD Courses:

- 2021–2022: Course in Approximation Theory (PhD in Mathematics, Computer Science, Statistics

– joint program between Univ. Florence, Univ. Perugia, and INdAM).
- 2023–2025: Course in Approximation Methods in Functional Spaces (PhD in Mathematics, Computer Science, Statistics – joint program between Univ. Florence, Univ. Perugia, and INdAM).

Undergraduate Teaching:
- 2004–2007: Teaching module for "Physical and Mathematical Fundamentals for Biotechnology", BSc in Biotechnology, Univ. of Perugia.
- 2007–2008: Teaching and tutoring for "Image Analysis and Processing", Univ. of Camerino.
- 2008–2010: Teaching module for "Diagnostic Imaging Techniques", BSc in Physics, Univ. of Perugia.
- 2010–2011: Lecturer in Statistics, IFTS Higher Technical Education Course (Aerospace sector).
- 2015-2022: Course "Mathematics and Statistics", BSc in Biological Sciences, Univ. of Perugia.
- Since 2016: Course "Image Reconstruction Algorithms", MSc in Medical Physics and in Mathematics, Univ. of Perugia.
- Since 2017: Co-lecturer in the course "Mathematical Analysis I", BSc in Civil Engineering, Univ. of Perugia.
- Since 2019: Course "Mathematical Analysis" (module within *Basic Sciences for Design*, BSc in Design).
- Since 2022: Course "Mathematics I" (course taught in English), BSc in Engineering Management, Univ. of Perugia.

Supervision:
- Supervisor of several degree theses in Mathematics and current PhD supervisor of Chiara Darielli (1st year, PhD in Mathematics, Computer Science, Statistics, Univ. of Florence–INdAM–Univ. of Perugia).

Research Projects

- Coordinator of the GNAMPA 2015 Project “Approximation Methods and Applications to Signal and Image Processing”.
- Participant in numerous funded projects (GNAMPA, Cassa di Risparmio di Perugia Foundation, CARE 2019, UniNuvola, PRIN 2022 projects EXPANSION and RETINA, PNRR project “VITALITY”, etc.).
- Admitted to FFABR 2017 funding scheme.
- Coordinator of a Task within the Project "Uninuvola - Il Portale del Calcolo Scientifico di UNIPG" funded by the Univ. of Perugia and member of the CTS (Technical Scientific Committeee) of the projct d"UniNuvola-GPU" funded by the Univ. of Perugia.
- Coordinator of the GNAMPA 2025 Project “MultiPolExp: Exponential-type Polynomials in Multidimensional and Multivariate Settings”.

Academic Service and Invitations

- Rector Sub-delegate, University of Perugia, for the sector "National and International Rankings" (since December 2025).
- Research Delegate, Department of Mathematics and Computer Science, University of Perugia (since 2020).
- Coordinator for the VQR evaluation processes 2015–2019 and 2020–2024 for the Department of

Mathematics and Computer Science (Univ. of Perugia).

- Member of the Departmental Research Committee and other evaluation committees.
- Co-coordinator (2023–2025) of the Italian Research Network on Approximation (RITA).
- Responsible for a two-year Research Grant "FunProject" about research design at the Department of Mathematics and Computer Science of the Univ. of Perugia
- Visiting Professor, Isaac Newton Institute (Cambridge, UK, 2019) and University of Oradea (Romania, 2023).

Other Activities

- Privacy responsible and webmaster of the UMI-TAA Group "Approximation Theory and Applications".
- Member of UMI, UMI-TAA Group, and RITA Network.
- Participant in the National Lincei Academy project "I Lincei per una nuova didattica nella scuola" (2014–2016).
- Reviewer for the AMS and several international journals.

Perugia, 12 January 2026

Laura Angeloni