Prof. Dr. Nicola R. Napolitano

Curriculum Vitae and List of Publications

Last update: 8/2025

Place and date of birth: Catania, Italy, May 18th 1972
Nationality: Italian
Civil status: married, one daughter.
Present address - office: Department of Physics "E. Pancini", University of Naples Federico II, C.U. di Monte Sant'Angelo, Via Cintia ed. 6, 80126 Naples, Italy
Present address - home: Contrada S. Antonino, 8, 82033, Cusano Mutri (BN), Italy
Email: nicolarosario.napolitano@unina.it, ***phone***: +39 3286753408, +86 13823093510
Web Pages: https://www.docenti.unina.it/nicolarosario.napolitano
Current position: **Full professor** at Department of Physics "E. Pancini", University of Naples Federico II, Naples, Italy
Research Interests. Extragalactic Astronomy, Galaxy Dynamics and Dark Matter. Gravitational Lensing and Large Sky Surveys. Application of the Artificial Intelligence to Astrophysics.

Science collaborations/leads
4MOST: co-lead of the classification working group (IWG9), member of the WAVES survey and the Strong Lensing Survey (4SLSLS).
Vera Rubin/LSST: co-lead of the ITA-INA-S6. Directable SW contribution for the Galaxies Science Collaboration: Tools for the measurement of surface brightness fluctuations on LSST data.
Kilo Degree Survey: Leading Scientist of Science Tasks for galaxy formation and evolution, gravitational lensing.
Fornax VLT Spectroscopic Survey: principal investigator of a spectroscopic program for the investigation of the galaxy formation and galaxy and intra-cluster light dynamics in the Fornax galaxy cluster.

Education

2001 PhD at the University of Naples, with the thesis: ''Planetary Nebulae as dynamical tracers at galaxy and cluster of galaxies scales''. Supervisors: Prof. M. Capaccioli, Dr. M. Arnaboldi
1998 Master in Physics at the University of Naples, summa cum laude. Supervisors: Prof. M. Capaccioli, Dr. M. Arnaboldi

Positions

2023-now **Full professor** at the Department of Physics "E. Pancini", University of Naples Federico II, Naples, Italy
2018-2023 **Full professor** at the School of Physics and Astronomy of the Sun Yat-sen University, Zhuhai Campus
2016-2018 Adjunct professor — University Parthenope, Naples
2005-2018 Permanent Research astronomer, INAF – Observatory of Capodimonte
2003-2004 **EU FP5 - Marie Curie Fellowship at Kapteyn Institute, Groningen, NL**
2002-2003 Post-doc at INAF – Osservatorio Astronomico di Capodimonte
1998-2001 PhD fellowship at the University of Naples

Awards

2025 **Ambassador Award** — Napoli Ambassador Program, Convention Bureau Naples (Italy)
2022 **Yixian Prize** — Excellent Scholar Award, Sun-Yat Sen University

Grants as Principal Investigator/Reference scientist

2022-2024 **Research Grant for International Scientists of the National Science Foundation of China (NSFC).** Budget: 1.360.000 RMB

2021-2024 **Research Grant from Natural Science Foundation of Guangdong**. Budget: 100.000 RMB

2021-now **CSST grant as co-I of the Selection effect working group.** Budget: 200.000 RMB

2018-2021 **One Hundred Top Talents Grant.** Two-year start-up grant from Chinese Academy of Science. Budget: 800.000 RMB.

2017-2021 **Node Leader (INAF Observatory of Capodimonte) of the Horizon 2020 Innovative Training Network – "SUNDIAL: SUrvey Network for Deep Imaging Analysis and Learning"** (Other members are University of Groningen, University od Birmingham, University of Heidelberg, University of Oulu, University of Gent, University of Naples, Institute of Astrophysics of Canary Island). Node Budget: 258.000 euro (4 years).

2017 (ended) **FP7 Marie Curie Actions AstroFIt2 (Astronomy Fellowships in Italy) Grant**: Scientific Supervisor of a post-doctoral project at the INAF – Observatory of Capodimonte. Budget: 3-year post-doc (Dr. Chiara Spiniello).

2017 (ended) **Local Unit coordinator** (INAF-Osservatorio Astronomico di Capodimonte) of a INAF - National Interest Project Grant (PRIN-INAF) "FORmation and Evolution of Cosmic Structures (FORECaST) with Future Radio Surveys".

2014 (ended) **National coordinator** of a INAF - National Interest Project Grant (PRIN-INAF) "Fornax Cluster Imaging and Spectroscopic Deep Survey: tracing baryonic and dark matter with small stellar systems in the cluster core and beyond". Budget: 60.000 euro (2 years).

2013 (ended) **INAF PhD grant** for the project "KiDS galaxy structural parameters", within the ESO Public Survey KiDS. Budget: 50.000 euro (3 years).

2013 (ended) **FP7 Marie Curie Actions AstroFIt (Astronomy Fellowships in Italy) Grant**: Scientific Supervisor of a post-doctoral project at the INAF – Observatory of Capodimonte. Budget: 2-year post-doc (Dr. Crescenzo Tortora).

2010 (ended) Granted from Regione Campania (Legge 5, 2007). Project title: Dark Matter in Elliptical galaxies (DAMAE). Budget: 9.000 euro.

2005 (ended) **European Reintegration Grant form CORDIS within the FP6**. Budget: 50.000 euro (1 year).

2003 (ended) **Individual Marie Curie Fellowship** from CORDIS within the FP5 at the Kapteyn Astronomical Institute, Groningen.

2001 (ended) Exchange Program Grant between University of Naples and the University of Basel. Collaboration with O. Gerhard and J.A.L. Aguerri.

Awarded Director Discretionary Time as PI

2021 DDT ESO107.22S8.0001/2 (VLT-XShooter/Hawk-I), "An extremely massive and distant (z>1.7) gravitational lens: validation and dark matter measurement (SCTYPE-C)": 5.2h;

2019 DDT ESO10101.A-0410 (VLT-MUSE), "Confirmation of two newly discovered Einstein cross candidates in the Kilo Degree Survey": 6h;

2015 DDT - ESO295.A-5023 (VIMOS-IFU@ESO-VLT), "Einstein cross around a massive super-compact galaxy in the KiDS survey";

Board/Committee Participation

2025 Member of the selection committee for an Associate Professor at the University of Catania

2024-now Head of the Internationalisation Working Group of the Department of Physics, UniNA

2024 Member of the selection committee for a Full Professor at the University of Catania

2024-now Member of the PhD Coordination Committee at Scuola Superiore Meridionale (Naples)

2021-now Member of the Editorial Board of the "Universe" Journal (ISSN 2218-1997)
2017-2021 Supervisory Board of the EU-Horizon 2020 Marie Skłodowska-Curie ITN SUNDIAL
2012-2015 Board member of the "Galaxy and Cosmology" National Committee of the Istituto Nazionale d'Astrofisica (INAF)
2009-2016 National coordinatore of the VLT Survey Telescope (VST) science programs at the VSTCenter In Naples (Italy).
2006-now Member of the International Astronomical Union (Division A Fundamental Astronomy, Division H Interstellar Matter and Local Universe, Division J Galaxies and Cosmology)

Referee Activity

2021 Reviewer for the Swiss National Science Foundation (SNSF) Div. Mathematics, Physical and Engineering Sciences
2005-now Referee of peer-reviewed journals: A&A, MNRAS, ApJ
2014-2017 Member of the Time Allocation Committee of Telescopio Nazionale Galileo (TNG, La Palma, Spain) e del Large Binocular Telescope (LBT, M. Graham, Arizona)
2009 Reviewer for the Katholieke Universiteit Leuven (selezione 1 prof. associato)

Visiting

Mar 2015 Visiting scientist at the Excellence Universe Cluster – Garching
Jan 2015 Visiting scientist at the European Southern Observatory – Garching
Jun 2014 Visiting scientist at the European Southern Observatory – Garching
Dec 2011 Visiting scientist at the Swinburne University of Technology – Melbourne
Nov 2009 Visiting professor at the University of Guatemala – Città di Guatemala
May 2007 Visiting scientist at the Institute d'Astrophysique de Paris (IAP) – Parigi
Jan/Jun 2005 Visiting fellow at the Kapteyn Institute, Groningen
Apr 2002 Visiting scientist at the Istituto Astrofisico de Canarias, Santa Cruz de la Palma (Tenerife)
Feb 2001 Visiting fellow at the Astronomy Institute dell'Università di Basilea

Organization of Scientific Meetings

2025 Scientific Organizing Committee of the IAU Symposium #396: "Massive Galaxies across the Universe", June 2025, Naples (Italy)
2022 co-Chair of the Scientific Organizing Committee (SOC) of "EAS 2022 – S3: The dark matter multi-messenger challenge", Valencia, Spain
2021 SOC member of "CSST-Euclid-Roman Workshop", Online meeting, 2021
2020 SOC member of "The low surface brightness universe by LSST", Sexten, Italy
2019 Chair of the ITN-SUNDIAL Annual Meeting /Training School, Naples, Italy
2017 SOC Chairman. Conference "Bright & Dark Universe", Naples, Italy
2014 SOC Chairman. Conference "The Universe of Digital Sky Surveys", Naples
2014 Chair of the KIDS Science meeting, Naples Italy
2013 SOC member "The PN.S: Future Projects and Ideas", Leiden, NL

2. Teaching Activity/Student Supervision

Courses/Lectures

2025 University of Naples: Galaxy Physics. 48 hours
2025 University of Naples: Physics 101 for Engineers students: 48 hours

2024 University of Naples: Physics 101 for Informatics students: 48 hours
2024 University of Naples: Galaxy Physics. 64 hours
2023 Sun Yat-sen University: Introduction to Astrophysics (co-teaching): 36 hours
2019-23 Sun Yat-sen University: Dark Matter & Gravitational Lensing (Dark matter measurements in galaxies and galaxy clusters, principles of gravitational lensing): 54 hours.
2021-23 Sun Yat-sen University: Galaxy Physics (Basic Astronomy, stars, Milky Way, Galaxies, Dark Matter): 36 hours.
2018-19 Sun Yat-sen University: Galactic Astronomy (Basic Astronomy, stars, Milky Way, Galaxies, Dark Matter): 54 hours.
2017-18 Adjunct Professor at the University of Naples Federico II: Astrophysics 2 (The Milky Way – Galaxy structure and dynamics – Dark Matter – Cosmological parameters): 64 hours.
2017-18 Adjunct Professor at the University Parthenope Naples: Physics I (equiv. to PHY110) for Informatics students: 28 hours
2016-17 Adjunct Professor at the University Parthenope Naples: Physics I (equiv. to PHY110) for Nautical and Aeronautical Science students: 72 hours
2016-17 Adjunct Professor at the University Parthenope Naples: Physics I f(equiv. to PHY110) or Informatics students): 28 hours.
2017 Lecturer at the school Verão Quântico 2017 organized by the Universidad de Espirito Santo, Brasil: "Dark Matter and Dark Energy"
2007-2013 Assistant Lecturer in “Physics of Galaxies” at the University of Naples (course chair: Prof. M. Capaccioli)
2010 co-author of the MOOC version of the “Physics of Galaxies” course [Federica MOOC – University of Naples Federico II] (http://www.federica.unina.it/corsi/physics-of-galaxies/)
2009 Lecturer at the University of Guatemala: “Galaxy formation and internal structure”
2005 Lecturer at the PhD national school “Cosmologia Osservativa a grande campo-Scala delle Distanze”, S.Agata dei due Golfi, Naples
1999-2001 Teaching duties during the PhD position at the Università “Federico II”, Naples: Physics Laboratory (40 hours) and Physics Exercitation (20 hours).

Post-doc and Student Supervision

2025-now **Pedro Italo De Arujo Ferreira**. co-supervision with Federal University of Sergipe (Brasil). “Observational realism in Cosmological Simulations: observed and simulated scaling relations for an unbiased understanding of galaxy formation and cosmology”.
2025-now **Luigi Miriani**. Master student at University of Naples. “Implementation of Schwarzschild orbital superposition methods for Galaxy Dynamics using Deep Learning”.
2024-now **Hao Su**. CSC PhD student at University of Naples. “Structure and Evolution of Ultra Diffuse Galaxies using Deep Learning methods”.
2022-now **Fucheng Zhong**. PhD student at Sun Yat-sen University. Thesis project at the Sun Yat-sen University: “Deep Learning methods for astronomical surveys and cosmology”.
2020-2024 **Linghua Xie**. PhD student at Sun Yat-sen University. Thesis project at the Sun Yat-sen University: “Stellar population analysis and mass function in the KiDS survey”
2021-2024 **Sirui Wu.** Master student at Sun Yat-sen University
2021-2024 **Lanlan Qiu.** Master student at Sun Yat-sen University
2020-2024 **Ruibiao Luo**. PhD student at Sun Yat-sen University. Thesis project at the Sun Yat-sen University: “Galaxy-galaxy weak lensing in large sky surveys”
2021-2022 **Leyao Wei, Xinsheng Zhu, Zhuo Chen**, Bachelor students at Sun Yat-sen University.
2020-2021 **Wen Shu.** Bachelor student at Sun Yat-sen University.
2020-2021 **Liuze Long**. Bachelor student at Sun Yat-sen University.
2020-2021 **Sirui Wu**. Bachelor student at the University of Lanzhou. Thesis: “Dark matter halo properties in galaxies with machine learning methods”. **Graduated** (now Master student at the Sun Yat-sen University).

2020-2021 **Shukui Liu**. Bachelor student at Sn Yat-sen University. Thesis: "Using Deep Learning to Model the Light Profile of Galaxies". **Graduated** (now Master student at the University of Macao)

2019-2021 **Dr. Rui Li**. Post-doc at the Sun Yat-sen University

2019-2020 **Dr. Nivya Roy**. Post-doc at the Sun Yat-sen University (now teacher at Carmel College, Mala, Thrissur, Kerala)

2019-2020 **Dr. Amaro Valeria**. Research Associate at the Sun Yat-sen University (offered an Associate professorship at the Shanghai Normal University)

2017-2020 **Maria Angela Raj**. PhD student at the University of Naples/INAF-Observatory of Capodimonte. Thesis project, **within the Marie Curie ITN - SUNDIAL**: "Evolution of galaxy truncations in FDS and KiDS surveys" (now post-doc at the Observatory of Rome)

2017-2018 **Massimiliano Gatto.** Master student at the University of Naples/INAF-Observatory of Capodimonte. Thesis project: "Dynamical substructures in the Fornax cluster" (now PhD student at the University of Naples Federico II).

2017-2020 **Dr. Chiara Spiniello**. Marie Curie/Astrofit2 post-doc at the INAF-Observatory of Capodimonte (now post-doc at Oxford University)

2017 **Dr. Giuseppe D'Ago**. post-doc at the INAF-Observatory of Capodimonte working on GAMA spectroscopy (now at the Universidad Catolica- Santiago Chile)

2013-2017 **Nivya Roy**. PhD Thesis project at the University of Naples/INAF-Observatory of Capodimonte: "Galaxy structural parameters in the KiDS survey"

2016 Dr. **Vincenzo Pota**. Post-doc at the INAF-Observatory of Capodimonte on VLT spectroscopy of globular clusters in Fornax (now working as data analyst at the City of London)

2014 **Andrea Colonna**. Master thesis at the University of Naples/ INAF-Observatory of Capodimonte: "Development and testing of a neural network for the detection of strong gravitational lensing in large sky surveys" (PhD student at the University of Birmingham, then left astronomy)

2013-2015 **Dr. Crescenzo Tortora**. Marie Curie/Astrofit post-doc (now Researcher at the INAF Observatory of Capodimonte)

2013 **Luca Tortorelli**. Undergraduate Thesis projects at the University of Naples: "Ellipticity measurements in KiDS survey images aimed at weak lensing studies" (now PhD student at the ETH Zurich)
Marco Laudato. Undergraduate Thesis projects at the University of Naples: "Full characterization of the line of side velocities of Planetary Nebule around the giant elliptical NGC 4374" (now PhD Student in Finland)

2012 **Andrea Colonna**. Undergraduate Thesis projects at the University of Naples: "testing galaxy-galaxy lensing techniques for large sky surveys"

2011 **Viviana Caianiello**. Master Thesis projects at the University of Naples: "Photometrical properties of the diffuse light in the fossil group candidate NGC 5044" (left astronomy)

2008-2009 **Vincenzo Pota**. Master Thesis projects at the University of Naples: – "Dynamical analysis of NGC 4697 using the Planetary Nebula Spectrograph" (PhD at Swimburne from April 2010, then post-doc at the University of California Santa Cruz);
Dario Basta. Master Thesis projects at the University of Naples: – "The dark matter problem in elliptical galaxies and the extended theories of gravity" (worked at the Department of Physics - Naples).

2007-2008 **Alessia Longobardi**. Undergraduate Thesis projects at the University of Naples: – "Dark Matter and rotation curves in spiral galaxies" (PhD at the MPE-Garching, now post-doc in France);
Viviana Caianiello. Undergraduate Thesis projects at the University of Naples: – "Star formation efficiencies in hydrodynamical simulations".

2006-2007 **Dr. A.D. Romeo**. Post-doc at the INAF – Observatory of Capodimonte within the project "Extragalactic PNe" funded with the Marie Curie ERG.

2005 supervisor of a short student project at Kapteyn Institute, Groningen, of **Matthijs H.D. van der Wiel**. Title: "Photometry and dynamics of galaxy NGC5866" (now at the University of Copenhagen).

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Publications statistics (Source NASA/ADS)

TOTAL papers:
328 papers (peer/non-peer reviewed)
30 first-author papers
Refereed Papers:
209 refereed with >11600 citations. h-index: 58

List of recent relevant papers (extract 2018-2025)

1. Feng H.-C., Li R., **Napolitano N. R.**, et al., "Morpho-photometric Classification of KiDS DR5 Sources Based on Neural Networks: A Comprehensive Star–Quasar–Galaxy Catalog", 2025, The Astrophysical Journal Supplement Series, 26, DOI: 10.3847/1538-4365/adde5a
2. Li R., **Napolitano N. R.**, D'Ago G., et al., "Optical+Near-IR Analysis of a Newly Confirmed Einstein Ring at z ~ 1 from the Kilo-Degree Survey: Dark Matter Fraction, Total and Dark Matter Density Slope, and Initial Mass Function", 2025, The Astrophysical Journal, L31, DOI: 10.3847/2041-8213/ade680
3. de Araujo Ferreira P., **Napolitano N. R.,** Casarini L., et al., "The catalogue of virtual early-type galaxies from IllustrisTNG: validation and real observation consistency", 2025, Monthly Notices of the Royal Astronomical Society, 2855, DOI: 10.1093/mnras/staf646
4. Zhong F., Luo R., **Napolitano N. R.**, Tortora C., et al., "Galaxy–Galaxy Strong Lensing with U-Net (GGSL-UNet). I. Extracting Two-dimensional Information from Multiband Images in Ground and Space Observations", 2025, The Astrophysical Journal Supplement Series, 277, 12, DOI: 10.3847/1538-4365/ada609
5. Li R., **Napolitano N. R.**, Xie L., Li R., et al., "Multiband Analysis of Strong Gravitationally Lensed Post-blue Nugget Candidates from the Kilo-degree Survey", 2024, The Astrophysical Journal, 973, 145, DOI: 10.3847/1538-4357/ad684c
6. Zhong F., **Napolitano N. R.**, Heneka C., Li R., et al., "Galaxy Spectra neural Network (GaSNet). II. Using deep learning for spectral classification and redshift predictions", 2024, Monthly Notices of the Royal Astronomical Society, 532, 643, DOI: 10.1093/mnras/stae1461
7. Qiu L., **Napolitano N. R.**, Borgani S., Zhong F., et al., "Cosmology with galaxy cluster properties using machine learning", 2024, Astronomy and Astrophysics, 687, A1, DOI: 10.1051/0004-6361/202346683
8. Wu S., **Napolitano N. R.**, Tortora C., von Marttens R., et al., "Total and dark mass from observations of galaxy centers with machine learning", 2024, Astronomy and Astrophysics, 686, A80, DOI: 10.1051/0004-6361/202348152
9. **Napolitano N. R.,** Dong Y., Li R., "A Catalog of Compact Blue Strongly Lensed Sources in the Footprint of Ground-based Surveys", 2024, Research Notes of the American Astronomical Society, 8, 77, DOI: 10.3847/2515-5172/ad333b
10. Xie L., **Napolitano N. R.**, Guo X., Tortora C., et al., "Toward a stellar population catalog in the Kilo Degree Survey: The impact of stellar recipes on stellar masses and star formation rates", 2023, Science China Physics, Mechanics, and Astronomy, DOI: 10.1007/s11433-023-2173-8
11. Busillo V., Tortora C., **Napolitano N. R.**, Koopmans L. V. E., et al., "CASCO: Cosmological and AStrophysical parameters from Cosmological simulations and Observations - I. Constraining physical processes in local star-forming galaxies", 2023, Monthly Notices of the Royal Astronomical Society, DOI: 10.1093/mnras/stad2691

12. Dark Energy Survey and Kilo-Degree Survey Collaboration, Abbott T. M. C., Aguena M., Alarcon A., et al., "DES Y3 + KiDS-1000: Consistent cosmology combining cosmic shear surveys", 2023, The Open Journal of Astrophysics, DOI: 10.21105/astro.2305.17173
13. Luo R., Fu L., Luo W., **Napolitano N. R.**, et al., "Galaxy-galaxy lensing in the VOICE deep survey", 2022, Astronomy and Astrophysics, DOI: 10.1051/0004-6361/202243758
14. Wang Y., **Napolitano N. R**., Cui W., Li X.-D., et al., "A stochastic model to reproduce the star formation history of individual galaxies in hydrodynamic simulations", 2022, Monthly Notices of the Royal Astronomical Society, DOI: 10.1093/mnras/stac1956
15. **Napolitano N. R.**, Gatto M., Spiniello C., et al., "The Fornax Cluster VLT Spectroscopic Survey. IV. Cold kinematical substructures in the Fornax core from COSTA", 2022, Astronomy and Astrophysics, Vol. 657, p. A94, DOI: 10.1051/0004-6361/202141872
16. von Marttens R., Casarini L., **Napolitano N. R.**, Wu S., Amaro V., Li R., Tortora C., Canabarro A., Wang Y., "Inferring galaxy dark halo properties from visible matter with machine learning", 2022, Monthly Notices of the Royal Astronomical Society, Vol. 516, p. 3924-3943, DOI: 10.1093/mnras/stac2449
17. Li R., **Napolitano N. R.**, Feng H., Li R., Amaro V., Xie L., Tortora C., Bilicki M., Brescia M., Cavuoti S., Radovich M., "Galaxy morphoto-Z with neural Networks (GaZNets). I. Optimized accuracy and outlier fraction from imaging and photometry", 2022, Astronomy and Astrophysics, Vol. 666, p. A85, DOI: 10.1051/0004-6361/202244081
18. Zhong F., Li R., **Napolitano N. R.,** "Galaxy Spectra Neural Networks (GaSNets). I. Searching for Strong Lens Candidates in eBOSS Spectra Using Deep Learning", 2022, Research in Astronomy and Astrophysics, Vol. 22, p. 065014, DOI: 10.1088/1674-4527/ac68c4
19. Li R., **Napolitano N. R.,** Roy N., Tortora C., La Barbera F., Sonnenfeld A., Qiu C., Liu S., "Galaxy Light Profile Convolutional Neural Networks (GaLNets). I. Fast and Accurate Structural Parameters for Billion-galaxy Samples", 2022, The Astrophysical Journal, Vol. 929, p. 152, DOI: 10.3847/1538-4357/ac5ea0
20. Tortora, C. & **Napolitano, N.R.,** "The Central Dark Matter Fraction of Massive Early-Type Galaxies", 2022, Front. Astron. Space Sci., 8, 704419
21. Li, R., **Napolitano**, N. R., Spiniello, C., et al., "High-quality Strong Lens Candidates in the Final Kilo-Degree Survey Footprint", 2021, The Astrophysical Journal, 923, 16
22. **Napolitano N. R.,** Li R., Spiniello C., Tortora C., et al., "Discovery of Two Einstein Crosses from Massive Post-blue Nugget Galaxies at z > 1 in KiDS", 2020, The Astrophysical Journal, 904, L31
23. Gatto M., **Napolitano N. R**., Spiniello C., Longo G., Paolillo M. "The COld STream finder Algorithm (COSTA). Searching for kinematical substructures in the phase space of discrete tracers", 2020, Astronomy and Astrophysics, 644, A134
24. **Napolitano**, N. R., D'Ago, G., Tortora, C., Zhao, G., Luo, A.-L., Tang, B., Zhang, W., Zhang, Y., & Li, R., "Central velocity dispersion catalogue of LAMOST-DR7 galaxies", 2020, Monthly Notices of the Royal Astronomical Society, 498, 5704
25. Li, R., **Napolitano**, N. R., Tortora, C., et al., "New High-quality Strong Lens Candidates with Deep Learning in the Kilo-Degree Survey", 2020, The Astrophysical Journal, 899,30
26. Raj, M. A., Iodice, E., **Napolitano**, N. R., et al., "The Fornax Deep Survey with VST. X. The assembly history of the bright galaxies and intra-group light in the Fornax A subgroup", 2020, Astronomy and Astrophysics, 640, A137
27. Kuijken K., Heymans C., Dvornik A., Hildebrandt H., et al., "The fourth data release of the Kilo-Degree Survey: ugri imaging and nine-band optical-IR photometry over 1000 square degrees", 2019, A&A, DOI: 10.1051/0004-6361/201834918
28. Tortora, C., **Napolitano**, N. R., Radovich, M., et al., "Nature versus nurture: relic nature and environment of the most massive passive galaxies at z < 0.5", 2020, Astronomy and Astrophysics 638, L11
29. Pota, V., **Napolitano, N. R**., Hilker, M., et al., The Fornax Cluster VLT Spectroscopic Survey - I. VIMOS spectroscopy of compact stellar systems in the Fornax core region, 2018, Monthly Notices of the Royal Astronomical Society, 481, 1744
30. Roy, N., **Napolitano, N. R.,** La Barbera, F., et al., Evolution of galaxy size-stellar mass relation from the Kilo-Degree Survey, 2018, Monthly Notices of the Royal Astronomical Society, 480, 1057

31. Spiniello, C., **Napolitano, N. R.,** Arnaboldi, M., et al., The Fornax Cluster VLT Spectroscopic Survey II - Planetary Nebulae kinematics within 200 kpc of the cluster core, 2018, Monthly Notices of the Royal Astronomical Society, 477, 1880
32. Tortora, C., **Napolitano, N. R**., Roy, N., Radovich, M., Getman, F., Koopmans, L. V. E., Verdoes Kleijn, G. A., & Kuijken, K. H., *The last 6 Gyr of dark matter assembly in massive galaxies from the Kilo Degree Survey*, Monthly Notices of the Royal Astronomical Society, 2018, 473, 969

Naples, 31/8/2025

Prof. Nicola R. Napolitano

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