



DIANA SCOGNAMIGLIO

Argelander-Institut für Astronomie
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Nationality: Italian

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EDUCATION

- Dr. rer. nat. | Astrophysics** March 2019 – March 2022 (expected)
Argelander-Institut für Astronomie (AIfA) & IMPRS – Bonn, Germany
Thesis: *Preparing for weak lensing measurements with the Euclid space probe*
Supervisors: Prof. P. Schneider, Dr. T. Schrabback
- Research placement** January 2018 – March 2019
Astronomical Observatory of Capodimonte – Naples, Italy
Subject: *Ultra-Compact Massive galaxies in the Kilo Degree Survey*
Supervisor: Prof. N. R. Napolitano
- Master of Physics | Astrophysics and Space Science** September 2014 – January 2018
University of Naples Federico II – Naples, Italy
Thesis: *The quest for cosmic strings: astrophysical methods*
Supervisors: Prof. M. Capaccioli, Dr. O. Sazhina
- Bachelor of Physics | Physics** September 2010 – September 2014
University of Naples Federico II – Naples, Italy
Thesis: *La luce diffusa tra le galassie (The intracluster light)*
Supervisor: Prof. M. Capaccioli

AWARDS

- Ph.D. Scholarship** 2019
EU Horizon 2020 COMPET-2017 programme “Enabling Weak lensing Cosmology” at AIfA
- International Mobility Scholarship** 2015
Scholarship to support international study experiences
Lomonosov Moscow State University
Subjects: Cosmology and Astrophysics
- Exchange Student program Scholarship** 2013
Scholarship to support international study experiences
Lomonosov Moscow State University
Subjects: Cosmology and Astrophysics

TECHNICAL EXPERIENCE

- Teaching** 2019 – 2021
Organizing/facilitating labs, tutorial sessions, and telescope video tour, assisting with observing projects on AIfA telescope, grading homework assignments, lab reports
- Optical Observations, Summer Semester 2019/2020/2021
 - Advanced Laboratory Course: Optical Astronomy, Winter Semester 2020/2021
- Observational** 2017
25 hours of observation within 2017 NEON School
- Nordic Optical Telescope – La Palma, Spain
 - Isaac Newton Telescope – La Palma, Spain

SKILLS

Languages

- Italian: native
- English: professional
- French: basic

Computational

- Astronomy Softwares: Galsim, SAOIMAGE, DS9, TopCAT, IRAF, SExtractor, LePHARE, MATLAB (basic)
- Programming languages: Python, HTML (basic)
- Document Creation: Microsoft Office Suite, LaTeX, Jupyter Notebook

SCHOOLS, CONFERENCES AND TALKS (EXCLUDING REGULAR TALKS AT COLLABORATION MEETINGS)

Enabling Weak lensing Cosmology (EWC) 3rd Review Meeting (virtual) Talk: WP 4 - Review of HST Data Reduction	June 2021
Euclid Consortium meeting 2021 (virtual) Results of my Ph.D. project shown during A. Taylor's talk – Lausanne, Switzerland	May 2021
European Astronomical Society Annual Meeting (EAS) (virtual) Contributed talk: Building the largest spectroscopic sample of UCMGs with the Kilo Degree Survey Leiden, The Netherlands	June 2020
Enabling Weak lensing Cosmology (EWC) 2nd Review Meeting (virtual) Talk: WP 4 - Review of HST Data Reduction	June 2020
Euclid Consortium meeting 2020 (virtual) Barcelona, Spain	May 2020
C++ Python Programming Sessions 2 Istitut Astrophysique de Paris – Paris, France	November 2019
Euclid Organisational Unit "Shear" (OU-SHE) Quarterly Meeting Talk: HST PSF Modeling – Marseille, France	October 2019
Euclid Consortium meeting 2019 Helsinki, Finland	June 2019
Hands-on multi-probe mass measurements in galaxy clusters Physics Department of the University of Milan – Milan, Italy	June 2018
PhD School of Astrophysics "Francesco Lucchin" Astronomical Observatory of Capodimonte – Naples, Italy	May 2016
Russian-Italian School on Astrophysics and Cosmology at Dubna Invited talk: Cosmic strings: possible candidates on the radio and optical data – Dubna, Russia	September 2015
Black and Dark Topics in Modern Cosmology and Astrophysics University of Dubna – Dubna, Russia	September 2013

INTERNATIONAL COLLABORATION, MEMBERSHIP, AND CO-PISHIP

International Max Planck Research School (IMPRS) of Bonn and Cologne Doctorate School	2021 - present
The Kilo Degree Survey PI: K. Kujiken	2021
CHARTER Pilot: CHARacterizing The Environment of Relic and ultra-compact massive galaxies PIs: D. Scognamiglio, C. Tortora, 12hrs of observations on Dolores@TNG awarded	2021

Euclid Consortium Member Consortium Leader: Y. Mellier	2019
INSPIRE: ESO Large Program PI. C. Spiniello, 154hrs of observations on X-Shooter@VLT awarded	2019
KiWi Collaboration Organizer of the weekly group meeting	2018 - present

CERTIFICATIONS

Leadership in the Academic Context Online, Munich Center for Leadership GmbH	2021
Converting Challenges into Opportunities Online, University of San Diego – San Diego, United States of America	2020
Decision making: How to choose the right problem to solve Online, University of Leeds and Institute of coding – Leeds, United Kingdom	2020
The Scientific Writing Workshop Write About Science, WAS	2020

OUTREACH

Skype a Scientist BASIS Independent Brooklyn Lower School – Brooklyn NY, United States of America (virtual)	December 2021
Skype a Scientist Avondale GATE Middle School, Rochester Hills – Michigan, United States of America (virtual)	March 2021
NASA Community College Network NASA Subject Matter Expert	January 2021 - present
Volunteer social media manager “Enabling Weak Lensing Cosmology” profile on Twitter	March 2019 - present

REFERENCES

- Prof. Dr. Henk Hoekstra**
Leiden Observatory
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- Prof. Dr. Nicola N. Napolitano**
School of Physics and Astronomy, Sun Yat-sen University
✉ napolitano@mail.sysu.edu.cn
- Dr. Tim Schrabback**
Argelander-Institut für Astronomie
✉ schrabba@astro.uni-bonn.de

LIST OF PUBLICATIONS

- Euclid preparation: On the use of HST images as input for weak lensing image simulations**
D. Scognamiglio, T. Schrabback, et al., in preparation, expected 2021
- Extending empirical constraints on the SZ–mass scaling relation to higher redshifts via HST weak lensing measurements of nine clusters from the SPT–SZ Survey at $z \gtrsim 1$**
H. Zohren, T. Schrabback, S. Bocquet, M. Sommer, F. Raihan, B. Hernández-Martín, O. Marggraf, B. Ansarinejad, M. B. Bayliss, L. E. Bleem, T. Erben, H. Hoekstra, B. Floyd, M. D. Gladders, F. Kleinebreil, M. A. McDonald, M. Schirmer, D. Scognamiglio, K. Sharon, and A. H. Wright, in preparation

INSPIRE: INvestigating Stellar Population In RElics II. First Data Release (DR1)

C. Spiniello, C. Tortora, G. D'Ago, L. Coccato, F. La Barbera, A. Ferré-Mateu, C. Pulsoni, M. Arnaboldi, A. Gallazzi, L. Hunt, N. R. Napolitano, M. Radovich, **D. Scognamiglio**, M. Spavone, S. Zibetti, *A&A*, 654, A136, 2021

INSPIRE: INvestigating Stellar Population In RElics - I. Survey presentation and pilot program

C. Spiniello, C. Tortora, G. D'Ago, L. Coccato, F. La Barbera, A. Ferré-Mateu, N. R. Napolitano, M. Spavone, **D. Scognamiglio**, M. Arnaboldi, A. Gallazzi, L. Hunt, S. Moehler, M. Radovich, S. Zibetti, *A&A*, 646, A28, 2021

Nature versus nurture: relic nature and environment of the most massive passive galaxies at $z < 0.5$

C. Tortora, N. R. Napolitano, M. Radovich, C. Spiniello, L. Hunt, N. Roy, L. Moscardini, **D. Scognamiglio**, M. Spavone, M. Brescia, S. Cavuoti, G. D'Ago, G. Longo, F. Bellagamba, M. Maturi and M. Roncarelli, *A&A*, 638L, 11, 2020

Building the largest spectroscopic sample of Ultra-compact Massive Galaxies with the Kilo Degree Survey

D. Scognamiglio, C. Tortora, M. Spavone, C. Spiniello, N. R. Napolitano, G. D'Ago, F. La Barbera, F. Getman, N. Roy, M. A. Raj, M. Radovich, M. Brescia, S. Cavuoti, L. V.E. Koopmans, K. H. Kuijken, G. Longo, and C. E. Pettillo, *ApJ*, 893, 4, 2020

Optical analysis of the CMB cosmic string candidate

O. Sazhina, **D. Scognamiglio**, M. V. Sazhin, M. Capaccioli, *MNRAS*, 485, 2, 2019

The first sample of spectroscopically confirmed ultra-compact massive galaxies in the Kilo Degree Survey

C. Tortora, N. R. Napolitano, M. Spavone, F. La Barbera, G. D'Ago, C. Spiniello, K. H. Kuijken, N. Roy, M. A. Raj, S. Cavuoti, M. Brescia, G. Longo, V. Pota, C. E. Pettillo, M. Radovich, F. Getman, L. V. E. Koopmans, I. Trujillo, G. Verdoes Kleijn, M. Capaccioli, A. Grado, G. Covone, **D. Scognamiglio**, C. Blake, K. Glazebrook, S. Joudaki, C. Lidman, C. Wolf, *MNRAS*, 481, 4728, 2018

Spectroscopic observation of 5 SN candidates

Elias-Rosa, N., Pursimo, T., Korhonen, H., Pastorello, A., the NEON school PhD students S. Derlopa, S., Marian, V., **Scognamiglio, D.**, Szigeti, L., Cabezas, M., Fernandes, C. S., McWhirter, P. R., Zervas, K., *The Astronomer's Telegram*, No. 10746, 2017

Observational constraints on the types of cosmic strings

O. Sazhina, **D. Scognamiglio**, M.V. Sazhin, *EPJ C*, 74:2972, 2014

I hereby give consent for my data included in the curriculum vitae to be processed for recruiting purposes.