

# Nicolas Martinet

## Curriculum Vitae

June 22nd 2024

✉	Laboratoire d'Astrophysique de Marseille 38, rue Frédéric Joliot Curie 13013 Marseille France
☎	+33-(0)4-91-05-59-75
✉	nicolas.martinet@lam.fr

## RESEARCH

### Laboratoire d'Astrophysique de Marseille, France

SEPTEMBER 2021 –  
ASSISTANT ASTRONOMER  
Team Galaxy, Stars, and Cosmology (GECO)

### Laboratoire d'Astrophysique de Marseille, France

JANUARY 2021 – AUGUST 2021  
POSTDOC  
Team Galaxy, Stars, and Cosmology (GECO)

### Laboratoire d'Astrophysique de Marseille, France

OCTOBER 2018 – DECEMBER 2020  
FELLOWSHIP CNES – EUCLID  
In collaboration with Dr. Eric Jullo.

### Argelander Institut für Astronomie Bonn, Allemagne

SEPTEMBER 2015 – SEPTEMBER 2018  
POSTDOC EUCLID  
In collaboration with Pr. Peter Schneider and Dr. Tim Schrabback.

### Institut d'Astrophysique de Paris, France Ohio University, Athens, USA

SEPTEMBER 2012 – AUGUST 2015  
PHD  
Under the supervision of Dr. Florence Durret and Pr. Douglas Clowe.

### Jet Propulsion Laboratory, Los Angeles, USA AstroParticule & Cosmologie, Paris, France

SEPTEMBER 2011 – JULY 2012  
POST-MASTER INTERNSHIP

### Institut d'Astrophysique de Paris, France

APRIL 2011 – JULY 2011  
MASTER 2ND YEAR INTERNSHIP

### School of Physics, Sydney, Australia

APRIL 2010 – JUNE 2010  
MASTER 1ST YEAR INTERNSHIP

### Laboratoire Hippolyte-Fizeau, Nice, France

JUNE 2009  
BACHELOR 3RD YEAR INTERNSHIP

## EDUCATION

2012 – 2015	<b>PhD</b> INSTITUT D'ASTROPHYSIQUE DE PARIS, FRANCE
2008 – 2012	<b>Grandes Écoles</b> ÉCOLE NORMALE SUPÉRIEURE DE CACHAN, FRANCE
2010 – 2011	<b>Master "Astronomy and Astro- physics"</b> OBSERVATOIRE DE PARIS, FRANCE
2008 – 2010	<b>Master and Bachelor "Basic and Applied Physics"</b> UNIVERSITÉ PIERRE ET MARIE CURIE, PARIS-6, FRANCE
2005 – 2008	<b>Intensive preparation for the French "Grandes Écoles" competition</b> PCSI/PC*, LYCÉE POINCARÉ, NANCY, FRANCE

## COLLABORATIONS

SINCE 2012	<b>Euclid</b> MEMBER OF SCIENCE WORKING GROUP WEAK LENSING (SWG- WL) AND ORGANISATIONAL UNIT SHEAR (OU-SHE). CO-LEAD OF WORK PACKAGES (WPS) MASS MAPPING AND HIGHER ORDER STATISTICS IN SWG-WL AND SHEAR CALIBRATION IN OU- SHE. FULL TIME EQUIVALENT ON THE MISSION 4.1 YEARS: BUILDER STATUS.
SINCE 2016	<b>Kilo Degree Survey (KiDS)</b> MEMBER OF THE WP WEAK LENSING AND WP BEYOND-2PT
2012 – 2015	<b>DAFT/FADA</b> DARK ENERGY AMERICAN FRENCH TEAM

## PUBLICATIONS

54	<b>Articles in peer-reviewed Journals</b> INCL. 9 AS 1 <sup>st</sup> AND 4 AS 2 <sup>nd</sup> AU- THOR/COORDINATOR
13	<b>Conference Proceedings</b> INCL. 4 AS FIRST AUTHOR

## PARTICIPATION TO CONFERENCES

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- 20 **International conferences**  
13 PRESENTATIONS (INCL. 6 INVITED), 4 POSTERS, MEMBER OF 2 LOC AND 1 SOC
- 15 **National conferences**  
11 PRESENTATIONS, 3 POSTERS
- 26 **Invited seminars**  
26 PRESENTATIONS
- 27 **National and international workshops**  
19 PRESENTATIONS

## SCIENTIFIC RESPONSIBILITIES

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- SINCE 2024 **Co-lead of the scientific GECCO team at LAM (Galaxy, Stars, and Cosmology)**
- SINCE 2024 **Co-lead of WP Mass Mapping and Higher Order Statistics in Euclid SWG-WL**
- SINCE 2021 **Co-lead of WP Shear Calibration in Euclid OU-SHE**
- SINCE 2018 **Co-lead and instigator of the HOWLS project in Euclid**
- 2017-2023 **Co-lead of WP Mass Mapping in Euclid SWG-WL**

## FELLOWSHIP AND AWARDS

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- 2023 – 2026 **Founding from the Centre National d'Etudes Spatiales (CNES), project PISCO: Pixels to COsmology**  
63 000 EUROS
- 2023 – 2026 **Founding from the Agence Nationale de la Recherche (ANR), project PISCO: Pixels to COsmology**  
313 000 EUROS
- 2018 – 2020 **Postdoctoral fellowship from the Centre National d'Etudes Spatiales (CNES)**  
64 000 EUROS
- 2012 – 2015 **Doctoral fellowship from the Ecole Normale Supérieure de Cachan**  
76 000 EUROS
- 2008 – 2012 **Undergraduate fellowship from the Ecole Normale Supérieure de Cachan**  
91 000 EUROS

## PHD AND POSTDOC SUPERVISION

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- JUN. 2024 - DEC. 2024 **Shun-Sheng Li, Postdoc: 100%**  
LAM, FRANCE
- MAR. 2024 - JUN. 2024 **Filippo Bouchè, PhD: 30%**  
LAM, FRANCE
- OCT. 2023 - OCT. 2026 **Simone Vigniguer, PhD: 100%**  
LAM, FRANCE
- JUL. 2023 - JUN. 2025 **Romain Brunet, Postdoc: 100%**  
LAM, FRANCE

## STUDENT TUTORING

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- MAY.-JUL. 2024 **Léo Buron, Master 1st year: 50%**  
LAM, FRANCE
- JUN.-SEP. 2022 **Léa Harscouet, Bachelor 3rd year: 50%**  
LAM, FRANCE
- MAR.-JUN. 2022 **Tom Resseguier, Master 2nd year: 50%**  
LAM, FRANCE
- MAY-JUN. 2021 **Antoine Deparday, Master 1st year: 50%**  
LAM, FRANCE
- MAR.-APR. 2021 **Antoine Gerard, Bachelor 3rd year: 50%**  
REMOTEY
- APR.-JUN. 2020 **Louis Dabot, Master 1st year: 75%**  
REMOTEY
- MAY-JUN. 2019 **Thomas Lucet, Bachelor 2nd year: 100%**  
LAM, FRANCE
- 2016 – 2019 **Beatriz Hernández, PhD: 10%**  
ARGELANDER INSTITÜT FÜR ASTRONOMIE, ALLEMAGNE
- 2018 – 2020 **Amael Ellien, PhD: 30%**  
IAP, FRANCE
- 2015 – 2018 **Florian Sarron, Master 2nd year and PhD: 30%**  
IAP, FRANCE

## TEACHING

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2024	<b>14 hours lectures on "student personal and professional project" for Bachelor of Physics students</b> UNIVERSITÉ D'AIX MARSEILLE, FRANCE	2022	<b>Co-chair of the SOC of the Focus Meeting "Consensus Cosmic Shear in the 2020s" at the IAU General Assembly, South Korea</b>
2022	<b>4.5 hours lectures on gravitational lensing at the Advanced Euclid Summer School 2022</b> LES HOUCHES, FRANCE	APR. 2022	<b>Co-organizer of the splinter OU-SHE "Euclid consortium meeting 2022", Oslo</b>
2021 – 2023	<b>114 hours lectures and tutorials on "mathematics for engineers" for Bachelor of Physics students</b> UNIVERSITÉ D'AIX MARSEILLE, FRANCE	2019 – 2020	<b>Member of the jury "STAR Prize 2020" for the attribution of research prizes in the Euclid Consortium</b>
2021 – 2022	<b>9 hours Astrophysics project tutorial for Master students</b> UNIVERSITÉ D'AIX MARSEILLE, FRANCE	OCT. 2019	<b>Organizer of a Euclid OU-SHE workshop at LAM, Marseille</b>
2019 – 2020	<b>18 hours lectures and tutorials on gravitational lensing for the Euclid Summer School 2019 &amp; 2020</b> BANYULS & HYÈRES, FRANCE	JUN. 2019	<b>Co-organizer of the splinter Mass Mapping "Euclid consortium meeting 2019", Helsinki</b>
2016 – 2018	<b>26 hours tutorial teaching of "Gravitational lensing" for Master students</b> BONN UNIVERSITY, GERMANY	SINCE 2019	<b>Referee for MNRAS</b>
2012 – 2015	<b>195 hours tutorial and practical teaching for undergraduate students in Physics</b> UNIVERSITÉ PIERRE ET MARIE CURIE, PARIS-6, FRANCE	SINCE 2019	<b>Member of the European Astronomical Society (EAS)</b>
2010	<b>40 hours teaching for high school students in Physics</b> LYCÉE LOUIS-LE-GRAND, PARIS, FRANCE	2018-2020	<b>Member of the SOC for the seminar of the LAM</b>
		2018-2021	<b>Representative of the post-doctoral researchers at the council of the laboratory at LAM</b>
		SINCE 2018	<b>Member of the International Astronomical Union (IAU)</b>
		JUN. 2018	<b>Co-organizer of the splinter Mass Mapping "Euclid consortium meeting 2018", Bonn</b>
		JUN. 2018	<b>Member of the LOC "Euclid consortium meeting 2018", Bonn</b>
		SINCE 2018	<b>Referee for A&amp;A</b>
		SINCE 2017	<b>Referee for PASJ</b>
		JUN. 2014	<b>Member of the LOC of the international conference "Future Directions in Galaxy Cluster Surveys", Paris</b>

## COMMITMENT TO THE COMMUNITY

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JUN. 2024	<b>Co-organizer of the SHE-PHZ calibration splinter "Euclid consortium meeting 2024", Rome</b>	2014	<b>Co-organizer of the PhD Day at IAP</b>
SINCE 2024	<b>Representative of the GECO team at the council of the laboratory at LAM</b>	SINCE 2013	<b>Member of the Société Française d'Astronomie et d'Astrophysique (SF2A)</b>
JUN. 2023	<b>Co-organizer of the SHE-PHZ calibration splinter "Euclid consortium meeting 2023", Copenhagen</b>		

## PUBLIC OUTREACH

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- 2024 **Conference for amateur astronomers**  
MARTIGUES, FRANCE
- 2024 **Activities on building Euclid in lego with children**  
MARSEILLE, FRANCE
- 2023-2024 **2 mini-conferences for children : "Pétanque et espace-temps"**  
MARSEILLE, FRANCE
- 2023-2024 **2 participations in "Festival d'Astronomie de Provence"**  
MARSEILLE, FRANCE
- 2023 **Participation in the preparation of a theater piece about Euclid with master students**  
MARSEILLE, FRANCE
- 2023 **Conference at the Institut d'Astrophysique de Paris**  
PARIS, FRANCE
- 2022 **Conference for amateur astronomers**  
OLLIOULES, FRANCE
- APR. 2022 **Round table for high school students**  
MARSEILLE, FRANCE
- 2021 **Writing of explanatory texts for astronomical images used in the decoration of a nursery**  
MIRAMAS, FRANCE
- 2018-2021 **3 participations in the "fête de la science" national yearly event**  
MARSEILLE, FRANCE
- NOV. 2019 **Conference for University students: "Understanding dark energy with Euclid"**  
MARSEILLE, FRANCE
- JUL. 2019 **Round table on the 100th anniversary of Eddington's lensing experiment**  
MARSEILLE, FRANCE
- 2018 - 2019 **Scientific reviewer for the "Astronomy Translation Network"**  
LED BY THE IAU OFFICE FOR ASTRONOMY OUTREACH
- OCT. 2014 **Conferences for children: "Une petite leçon d'astronomie"**  
PARIS, FRANCE
- OCT. 2014 **Participation in the "fête de la science" national yearly event**  
PARIS, FRANCE

## OBSERVATIONS

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- 2 NIGHTS **MISTRAL on the 1.93m telescope**  
OBSERVATOIRE DE HAUTE PROVENCE, FRANCE, 2022
- 2 NIGHTS **TWIN on the 3.5m telescope**  
CALAR ALTO, SPAIN, 2014
- 15 NIGHTS **Megacam on the Canada-France-Hawaii Telescope**  
HAWAII, USA, 2012
- 5 DAYS **THEMIS solar telescope**  
CANARY ISLANDS, SPAIN, 2011
- 6 NIGHTS **Anglo-Australian Telescope**  
WARRABUNGLE, AUSTRALIA, 2010

## ACCEPTED TELESCOPE PROPOSALS

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- 2 NIGHTS **OHP/MISTRAL,**  
PI: 2022A
- 14.0 HOURS **CFHT/MegaCam,**  
PI: 2012B, 2013A
- 31.1 HOURS **CFHT/WIRCam,**  
CO-I: 2014A, 2014B, 2015A
- 9.1 HOURS **GTC/Osiris,**  
CO-I: 2014A
- 3.3 HOURS **CAHA/Omega2000,**  
CO-I: 2014B

## COMMUNICATION

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- FRENCH Native speaker
- ENGLISH Fluent, TOEIC 2012: 920/990
- GERMAN Level CECRL A2

## INTERESTS

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Sports (french boxing, ju-jitsu, hiking, jogging, skiing), Music (Saxophone), Astronomy (Member of the Société Lorraine d'Astronomie from 2000 to 2008, Treasurer of the Astro Club of the École Normale Supérieure de Cachan from 2009 to 2010), traveling