

TOMMASO MARCHETTI

PERSONAL DATA

PLACE AND DATE OF BIRTH: ROME, ITALY | 26 DECEMBER 1991
ADDRESS: LEIDEN OBSERVATORY, NIELS BOHRWEG 2
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EDUCATION

OCT. 2015 - PRESENT PHD CANDIDATE
Leiden Observatory, Leiden University, NETHERLANDS
THESIS: "THE DISCOVERY OF HYPERVELOCITY STARS IN THE GAIA CATALOGUE"
ADVISOR: DR. ELENA MARIA ROSSI

SEPT. 2013 - SEPT. 2015 MASTER OF SCIENCE IN ASTRONOMY AND ASTROPHYSICS
Università "La Sapienza", ROME, ITALY
THESIS: "LSPE: OPTIMIZATION OF OPTICAL COMPONENTS"
ADVISOR: PROF. PAOLO DE BERNARDIS
FINAL GRADE: 110/110 CUM LAUDE

SEPT. 2010 - SEPT. 2013 BACHELOR'S DEGREE IN PHYSICS AND ASTROPHYSICS
Università "La Sapienza", ROME, ITALY
THESIS: "CLASSIC AND RELATIVISTIC DIPOLE EFFECTS IN THE CMB"
ADVISOR: PROF. PAOLO DE BERNARDIS
FINAL GRADE: 110/110 CUM LAUDE

SEPT 2005 - JULY 2010 **Liceo Scientifico P.N.I "I. Newton"**, ROME, ITALY
FINAL GRADE: 100/100

PUBLICATIONS

1. **Marchetti, T.**; CONTIGIANI, O.; ROSSI, E. M.; ALBERT, J. G.; BROWN, A. G. A.; SESANA, A.; "PREDICTING THE HYPERVELOCITY STAR POPULATION IN GAIA", 2018, MNRAS, 476, 4697.
2. **Marchetti, T.**; ROSSI, E. M.; KORDOPATIS, G.; BROWN, A. G. A.; RIMOLDI, A.; STARKENBURG, E.; YOUAKIM, K.; ASHLEY, R.; "AN ARTIFICIAL NEURAL NETWORK TO DISCOVER HYPERVELOCITY STARS: CANDIDATES IN GAIA DR1/TGAS", 2017, MNRAS, 470, 1388-1403.
3. ROSSI, E. M.; **Marchetti, T.**; CACCIATO, M.; KUIACK, M.; SARI, R.; "JOINT CONSTRAINTS ON THE GALACTIC DARK MATTER HALO AND GALACTIC CENTRE FROM HYPERVELOCITY STARS", 2017, MNRAS, 467, 1844-1856.
4. COPPI, G.; **Marchetti, T.**; DE BERNARDIS, P.; MASI, S.; "MEASUREMENTS OF THE POLARIZATION PROPERTIES OF FOAM MATERIALS USEFUL FOR MM-WAVE POLARIMETERS WINDOWS", 2016, JIMTW, 37, 8, 815-824.
5. LEGG, S.; LAMAGNA, L.; COPPI, G.; DE BERNARDIS, P.; GIULIANI, G. M.; GUALTIERI, R.; **Marchetti, T.**; MASI, S.; PISANO, G.; MAFFEI, B.; "DEVELOPMENT OF THE MULTI-MODE HORN-LENS CONFIGURATION FOR THE LSPE-SWIPE B-MODE EXPERIMENT", 2016, PROCEEDINGS OF THE SPIE.

6. LAMAGNA, L.; COPPI, G.; DE BERNARDIS, P.; GIULIANI, G. M.; GUALTIERI, R.; LEGG, S.; MAFFEI, B.; **Marchetti, T.**; MASI, S.; PISANO, G.; “DEVELOPMENT OF THE MULTI-MODED PIXELS FOR THE LSPE/SWIPE FOCAL PLANE”, 2015, PROCEEDINGS FOR THE 36TH ANTENNA WORKSHOP ON ANTENNAS AND RF SYSTEMS FOR SPACE SCIENCE.

GRANTS AND SCHOLARSHIPS

- APRIL 2018 LKBF GRANT (€ 950)
OCT. 2016 LKBF GRANT (€ 330)
JAN. 2013 DEPARTMENT OF PHYSICS - UNIVERSITÀ "LA SAPIENZA" DI ROMA (€ 1095,00)

TALKS, CONFERENCES, AND WORKSHOPS

- OCT. 2017: “NATIONAL eSCIENCE SYMPOSIUM 2017: SCIENCE IN A DIGITAL WORLD”
AMSTERDAM, THE NETHERLANDS - **Invited talk**
- JULY 2017: “GAIA SPRINT 2017”
HEIDELBERG, GERMANY
- JULY 2017: “IAU SYMPOSIUM 334: REDISCOVERING OUR GALAXY”
POTSDAM, GERMANY
- MAY 2017: “72ND NETHERLANDS ASTRONOMY CONFERENCE 2017”
NIJMEGEN, THE NETHERLANDS
- MAY 2017: “BLAAUW SYMPOSIUM 2017: A CRUISE THROUGH THE WORLD OF GAIA ”
GRONINGEN, THE NETHERLANDS - **Contributed talk**
- APR. 2017: “IAU SYMPOSIUM 330: ASTROMETRY AND ASTROPHYSICS IN THE GAIA SKY”
NICE, FRANCE - **Contributed talk**
- NOV. 2016: “GAIA DATA WORKSHOP”
HEIDELBERG, GERMANY - **Contributed talk**
- OCT. 2016: “NL GAIA 2016 WORKSHOP”
GRONINGEN, THE NETHERLANDS - **Contributed talk**
- SEPT. 2016: “LEIDEN STERREWACHT SCIENCE DAY 2016”
LEIDEN, THE NETHERLANDS - **Contributed talk**
- AUG. 2016: “STARS ON THE RUN - A MEETING ON RUN-AWAY AND HYPER-VELOCITY STARS”
BAMBERG, GERMANY - **Contributed talk**
- JULY 2016: “EUROPEAN WEEK OF ASTRONOMY AND SPACE SCIENCE 2016”
ATHENS, GREECE - **Contributed talk**
- MAY 2016: “71ST NETHERLANDS ASTRONOMY CONFERENCE 2016”
NUNSPEET, THE NETHERLANDS - **Contributed talk**

EDUCATIONAL ACTIVITIES

- FEB. 2018 - PRESENT CO-SUPERVISOR OF MASTER STUDENT ESMEE STOOP FOR HER MASTER PROJECT
- SEPT. 2017 - PRESENT CO-SUPERVISOR OF MASTER STUDENT YUEJIA ZHAI FOR HER MASTER PROJECT
- SEPT. 2017 - PRESENT CO-SUPERVISOR OF MASTER STUDENT MARCO TRUEBA VAN DEN BOOM FOR HIS MASTER PROJECT
- SEPT. 2017 - JAN. 2018 TEACHING ASSISTANT FOR THE BACHELOR COURSE "RADIATIVE PROCESSES"
- JAN. 2017 - DEC. 2017 ORGANIZER OF PHD TALKS AT LEIDEN OBSERVATORY
- OCT. 2016 - JULY 2017 CO-SUPERVISOR OF MASTER STUDENT OMAR CONTIGIANI FOR HIS MASTER PROJECT "HYPERVELOCITY STARS: A NEW PROBE FOR NEAR FIELD COSMOLOGY"
- SEPT. 2016 - JAN. 2017 TEACHING ASSISTANT FOR THE BACHELOR COURSE "INTRODUCTION TO GENERAL RELATIVITY AND ASTROPHYSICAL APPLICATIONS"
- OCT. 2015 - JULY 2016 CO-SUPERVISOR OF MASTER STUDENT BART VERHAAR FOR HIS MASTER PROJECT "PROBING THE GALACTIC MATTER DISTRIBUTION WITH HYPERVELOCITY STARS"
- OCT. 2015 - DEC. 2015 CO-SUPERVISOR OF TWO HIGH SCHOOL STUDENTS AT VOSSIUS GYMNASIUM (AMSTERDAM), M. CORNELISSEN AND A. KRIJGSMAN, FOR THEIR PROJECT "HYPERVELOCITY STARS"

LANGUAGES

ENGLISH: FLUENT
CERTIFICATIONS: JUNE 2009 - ESOL FCE (GRADE A)
DECEMBER 2014 - IELTS (OVERALL 7.5)

ITALIAN: NATIVE LANGUAGE

PROGRAMMING SKILLS

KNOWLEDGE OF THE PROGRAMMING LANGUAGE PYTHON.
BASIC KNOWLEDGE OF THE PROGRAMMING LANGUAGES OCTAVE, IDL, C.