



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE ____ 4545 ____

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di _____ Fisica "Aldo Pontremoli" _____

Scientist- in - charge: _____ Prof. Claudio Grillo _____

Umberto Rescigno

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Rescigno
Name	Umberto

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	<i>Astrophysics and cosmology</i>	University of Bologna	2016
PhD	<i>Physics, astrophysics and applied physics</i>	University of Milan	2019

FOREIGN LANGUAGES

Languages	level of knowledge
Italian	Native
English	Advanced user
Spanish	Competent user (CEFR B2)



AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2013	EU grant for a research project in a EU country
2014	EU grant for the Overseas Exchange Program

TRAINING OR RESEARCH ACTIVITY

Year	Description
2019	Visiting experience. Department of Astronomy, University of Chile, Chile. Faculty Sponsor: Prof. Sebastián López.
2018	Work experience. Tutor for the course of <i>Physics for Science of Food technologies</i> , Department of Nutrition and Food Science, University of Milan, Italy.
2018	Work experience. Tutor for the course of <i>Physics for Viticulture and Enology</i> , Department of Agricultural and Environmental Sciences, University of Milan, Italy.
2018-2017	Research Collaboration. <i>Dark Cosmology Center</i> , Niels Bohr Institute, University of Copenhagen, Denmark. Collaborator: Dr. Mario Bonamigo.
2017	Work experience. Tutor for the course of <i>Physics for Science of Food technologies</i> , Department of Nutrition and Food Science, University of Milan, Italy.
2017	Work experience. Tutor for the course of <i>Physics for Viticulture and Enology</i> , Department of Agricultural and Environmental Sciences, University of Milan, Italy.
2016	Research Internship. <i>Dark Cosmology Center</i> , Niels Bohr Institute, University of Copenhagen, Denmark. Supervisor: Prof. Claudio Grillo.
2015-2014	Overseas Exchange Programme (EU grant). Institute of Astrophysics, Pontifical Catholic University of Chile, Chile. [List of exams, grades and presentations can be found in Appendix A of the version of my CV attached to this application]
2013	Research Internship (EU grant). Astrophysics Group, Department of Physics, University of Bristol, UK. Supervisor: Prof. Steven Phillipps. [The evaluation of the internship can be found in Appendix B of the version of my CV attached to this application]



2011	X-ray Astronomy Laboratory. INAF (Italian National Institute for Astrophysics) - IASF (Institute of Space Astrophysics and cosmic Physics), Bologna, Italy. Supervisors: Prof. C. Vignali, Prof. P. Grandi and Prof. M. Dadina.
2011	Optical Astronomy Laboratory. Bologna Astronomical Observatory, Cassini Telescope, Loiano (Bologna), Italy. Supervisors: Prof. B. Marano and tutors.
2011	Radio Astronomy Laboratory. INAF (Italian National Institute for Astrophysics) - IRA (Institute of Radio Astronomy), Bologna, Italy. Supervisors: Prof. D. Dallacasa and Prof. M. Orienti.

CONGRESSES AND SEMINARS

Date	Title	Place
2019	Talk <i>Weighing the giants</i>	Physics Department, University of Milan, Italy.
2019	Workshop and Talk (invited speaker) <i>Arc-tomography Workshop</i> <i>Talk: Gravitational arcs in the RELICS cluster sample</i>	Institute of Physics, University of Valparaíso, Chile.
2019	Talk (invited speaker) <i>Mass model of the galaxy cluster Abell 2163 via strong gravitational lensing</i>	Institute of Physics, University of Valparaíso, Chile.
2019	Workshop <i>CCAT-prime / Chile Workshop</i>	Cerro Calán Santiago Observatory, Chile.
2019	Talk <i>Shedding light on Dark Matter in galaxy clusters</i>	Physics Department, University of Milan, Italy.
2019	Talk (invited speaker) <i>Gravitational lensing research at the University of Milan</i>	Department of Astronomy, University of Chile, Santiago, Chile.
2018	Talk <i>Mass model of Abell 2163 via strong lensing</i>	Physics Department, University of Milan, Italy.



2018	Talk <i>Mass estimates of galaxy clusters via strong gravitational lensing</i>	Physics Department, University of Milan, Italy.
2018	Conference and talk <i>The Universe as a telescope: probing the cosmos at all scales with strong lensing</i> Talk: <i>Mass model of Abell 2163 via strong lensing</i>	Sala napoleonica, Palazzo Greppi, Via S. Antonio 12, Milan, Italy.
2018	Workshop <i>Cluster School: hands-on multi-probe mass measurements in galaxy clusters</i>	Physics Department, University of Milan, Italy.
2017	Conference <i>Physics Conference of the University of Milan</i>	Mathematics Department, University of Milan, Italy.
2017	Workshop and talk <i>Physics, Astrophysics and Applied Physics Workshop</i> Talk: <i>Mass estimates of galaxy clusters via strong gravitational lensing</i>	Physics Department, University of Milan, Italy.
2011	Conference <i>Third South Pacific Coast Gravity Meeting</i>	Andrés Bello University, Viña del Mar, Chile.
2009	Workshop <i>VO-day</i>	INAF (Italian National Institute for Astrophysics) - OATS (Astronomical Observatory of Trieste), Trieste, Italy.

PUBLICATIONS

Articles in reviews
<i>An accurate strong lensing model of the Abell 2163 core</i> , Astronomy and Astrophysics, EDP Sciences (accepted for publication on November 2019 and to be published on March 2020)



OTHER INFORMATION

For the evaluation of the competence in the specific research field required by the competition (in particular, the requirements of Art. 2 and the research activities listed in Art. 6), I attach the abstract of my PhD thesis "Modeling massive galaxy clusters via strong gravitational lensing: the case for Abell 2163" and the scientific publication "An accurate strong lensing model of the Abell 2163 core" (accepted by the Journal *Astronomy & Astrophysics* on November 2019 and to be published on March 2020).

Please, find attached to this application a personal version of my CV to better understand the pertinence of my academic background to the research line indicated by this call. There, you can find the list of the astronomical software I use to model galaxy clusters via strong gravitational lensing and those *necessary* to this aim. Further information are:

- Brief description of Workshops, Schools, Conferences and talks.
- List of exams, grades, presentations and a brief description of my Master thesis (Appendix A).
- Evaluation of the research internship in the UK (Appendix B).
- List of scientific activities and astronomical tools used in the three astrophysics laboratories attended during my Master studies (Appendix C).
- Computer skills and research interests.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: Avellino, 12/03/2020

SIGNATURE