

Davide Martizzi

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Education

Laurea Triennale in Fisica (equivalent to B.S.), Summa Cum Laude, Università degli Studi Roma Tre, Roma, Italy, 2007.

Laurea Specialistica in Fisica (equivalent to M.S.), Summa Cum Laude, Università degli Studi Roma Tre, Roma, Italy, 2009.

Ph.D. in Theoretical Physics, University of Zürich, Zürich, Switzerland, 2013.

Research Experience

University of Zürich, PhD Student and Teaching Assistant, 2010–2013.

Swiss National Science Foundation Fellow (Early Postdoc.Mobility) at the University of California, Berkeley, October 2013–March 2015.

Postdoc at the Theoretical Astrophysics Center at the University of California, Berkeley, starting from April 2015.

Fellowships and Funding

Swiss National Science Foundation Early Postdoc.Mobility fellowship. Designed for post-docs at the beginning of their career who wish to enhance their scientific profile by working at a research institution abroad, this fellowship was granted to me by the Swiss National Science Foundation. Early Postdoc.Mobility fellowships can be used in any academic institution in the world. The total tax-exempt amount of the fellowship was 69900 USD to cover my living expenses for 18 months. This was a 100% research-oriented position.

Postdoc at the Theoretical Astrophysics Center at the University of California, Berkeley (current position). From April 2015 my postdoctoral research will be funded by Prof. Eliot Quataert through NASA grants. The salary is approximately 66000 USD/year.

Teaching Experience

Tutor in mathematics and physics for high school students 2004-2009.

Teaching Assistant, University of Zürich, Proseminar Theoretische Physik, Spring Semester 2010.

Teaching Assistant, University of Zürich, Physics of the Universe, Autumn Semester 2010.

Teaching Assistant, University of Zürich, Continuum Mechanics, Spring Semester 2011.

Teaching Assistant, University of Zürich, Mechanics, Autumn Semester 2011.

Teaching Assistant, University of Zürich, Introduction to Astrophysics, Spring Semester 2012.

Teaching Assistant, University of Zürich, Computational Science I, Autumn Semester 2012.

Languages

Italian (native speaker).

English (advanced).

German (basic).

Technical Skills

Experience in using the Microsoft Windows, Linux and Mac OS X operative systems.

Good knowledge of the FORTRAN 77/90 programming language.

Good knowledge of the Python scripting language.

Knowledge of the C/C++ programming language.

Experience in using the multi-purpose code RAMSES to perform numerical simulations in the context of Astrophysics and Cosmology.

Experience in working using high performance computing facilities.

Research Interests

Theoretical and Computational Astrophysics.

Galaxy Formation and Evolution.

Galaxy Clusters Physics.

Cosmology.

Service to the Scientific Community

Reviewer for the 2014 panel for Extragalactic Astronomy & Cosmology in the Division of Astronomical Sciences at the National Science Foundation (NSF).

Conferences, Workshops and Schools attended

ASTROSIM Summer School 2010, Toruń, Poland, participant.

Wengen 2 Workshop, 2010, Wengen, Switzerland, participant.

Advances in Computational Astrophysics: methods, tools and outcomes, 2011, Cefalù, Italy, contribution: poster on *The effect of AGN feedback on the brightest cluster elliptical galaxies*.

New Horizons in Computational Astrophysics, 2012, Davos, Switzerland, contribution: talk on *Cosmological simulations of clusters of galaxies*.

IAU General Assembly 2012 – Cosmic Evolution of Groups and Clusters, Beijing, China, contribution: talk on *The effects of baryon physics on the mass distribution in clusters of galaxies*.

IAU General Assembly 2012 – The Intriguing Life of Massive Galaxies, Beijing, China, contribution: talk on *The role of Active Galactic Nuclei feedback in the formation of the brightest cluster galaxies*.

RAMSES User Meeting 2013, Zürich, Switzerland, participant.

Aspen 2014 Winter Program – Unveiling The Formation Of Massive Galaxies - Theoretical And Observational Challenges, Aspen, Colorado, USA, contribution: talk on *Brightest Cluster Galaxies in Cosmological Hydrodynamical simulations with AMR*.

KITP Santa Barbara 2014 Program – Gravity's Loyal Opposition: The Physics of Star Formation Feedback, Santa Barbara, California, USA, participant.

RAMSES User Meeting 2014, Saclay, France, participant.

Last updated: April 17, 2015