

## Curriculum Vitae of Lucio Mayer

Prof. Dr. Lucio Mayer (EAS and SSAA member, Google Scholar ID:orcid.org/0000-0002-7078-2074)  
Born on March 2nd, 1972, in Milan (Italy), married with two daughters (4 and 8)

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**h-index = 66, i-10 index=150 based on Google Scholar .**

### Education

Ph.D.in Astronomy, January 2001, University of Milano, Milano, Italy  
Laurea (Master) in Physics, July 1997, University of Milano, Milano, Italy

### Employment history

Since January 2015 - Professor Ad Personam for Computational Astrophysics, CTAC, Institute for Computational Science, University of Zürich

July- September 2013, and every April-May in 2014-2018 - Visiting Faculty at Kavli Institute for Theoretical Physics, University of California at Santa Barbara.

2013-2014 - Tenured Position and Habilitation at the Faculty of Science of the University of Zürich, and Visiting Professor at Department of Physics, Institute for Astronomy, ETH Zürich.

2006 - 2012 - Assistant Professor (SNF Professor), Institute for Theoretical Physics, University of Zurich

Zwicky Prize Fellow, Institute for Astronomy, Department of Physics, ETH Zurich, September 2005-October 2006

Postdoctoral Research Associate, Institute for Theoretical Physics University of Zurich, October 2002-September 2005

Postdoctoral Research Associate, Department of Astronomy, University of Washington, November 2000-October 2002

Visiting Scientist, Max-Planck Institute fuer Astrophysik, Garching bei Munchen, Germany, October 1999-January 2000

## **Institutional Responsibilities and Committee Work**

**Deputy Director, Institute for Computational Science, University of Zürich**

**Director Msc and PhD Program** in Theoretical Astrophysics and Cosmology, MNF, University of Zürich

**Coordinator Astrophysics Track Specialization** in Computational Science and Applied Math Msc program at ETH Zürich

**Member Auszeichnungen Komitee** at MNF, University of Zürich

**Member of the Commission for Integrity** (Kommission Lauterkeit) at MNF, University of Zürich

Member of more than 12 PhD committees in the last 5 years in other institutions (12 at the home institution). At UZH member of 8 Promotion Committees to grant tenured professorial posts Habilitations (Venia Ligendi), of 6 Faculty Search Committees at UZH and ETH (Physics, Astronomy, Earth System Science, Evolutionary Biology, Water Systems in Geography). **External referee for faculty searches or tenure evaluation panels at UC Santa Cruz, University of Ghent, University of Michigan, Carnegie Mellon University, Georgia Tech University, Leiden University, University of Athens**

## **Approved Research Projects in the last five years**

July 2012 - STARFORM SNF Sinergia grant, ~ 1M CHF, PI of UZH node (1 PhD student and 1 PostDoc to UZH, share of 340,000 CHF)

April 2013 - awarded SNF Individual Project Grant, "Galaxy formation and massive black holes at the crossroads", 247.052 CHF for 2 years

since June 2014 - Co-I on awarded "PlanetS" NCCR (total grant ~ 18M CHF for first 4 years with multiple positions)

December 2013 - awarded PASC project "DIAPHANE" as PI, 690,000K CH. Multiple positions for 3 years for shared by three swiss nodes, concluded in June 2017

July 2015-2017 - Tomalla Fellowship Grant for 1 Postdoctoral Fellow for 2 years (250K CHF).

September 2014 - awarded SNF Individual Project Grant, "The physics of baryons at high and low-redshift; from the earliest galaxies and massive black holes to galactic coronae, 370,000 CHF for 2 years)

November 2015 - awarded Phase II of SINERGIA STARFORM, PI for UZH node with share of 420,000 CHF for 3 years

September 2014 - awarded SNF Individual Project Grant, "Galaxies and black holes at the crossroads", 390,000 CHF for 2 years)

June 2018 - awarded Phase II of NCCR PlanetS as Project Leader and Spokesperson/Coordinator of 1/3 of the NCCR (Domain1), with allocated ~ 300,000 CHF/yr

September 2018 - awarded SNF individual grant, ~ 660,000 CHF for two years

## **Awards**

2005- awarded Zwicky Prize Fellowship at ETH Zurich

2006- awarded SNF Professorship Grant by Swiss National Science Foundation (~ 1.2 million francs)

2008- awarded visiting fellowship of Isaac Newton Institute for Mathematical Sciences of the University of Cambridge (Cambridge,UK) for program "Dynamics of discs and planets" (August-December 2009)

2010-2012 - awarded SNF professorship extension grant "Joint evolution of galaxies and supermassive black holes", CHF 580K

2013 - awarded Simons Foundation Grant as KITP Program Coordinator, at KITP and UCSB

## **Service as Reviewer and Panelist**

- external panel reviewer for the European Science Foundation (ESF), for the NASA Planetary Geology and Geophysics Program, for the Royal Society in the UK, for the Austrian National Science Foundation, for the "Project Blaque" program of the French Research Council, the

Canadian Research Council, the German-Israeli Foundation (GIF), the German DFG (Priority Programs, the european COST program, for the Dirac Supercomputing Consortium in the UK and the Leibniz Supercomputing Center in Germany, the European PRACE program.

- regular referee for: Leverhulme and Rutherford Fellowships (in the UK), Senior Research Fellowships at the University of Oxford, NOVA and Veni/Vidi Fellowships (Netherlands), Emmy Noether Fellowship (Germany), SNF Professorship (Switzerland), *Marie Curie Fellowship and ERC Consolidator Grants (EU)*, MERAC Prize (Merac Foundation, Switzerland)
- July 2012 - member of the *Evaluation Board of the Heidelberg Institute for Theoretical Studies (HITS)*, appointed by the Tschira Foundation.

#### **Appointments to Coordination and Managing Roles nationally and internationally**

- since August 2012 **Steering Committee Member of the international AGORA**
- **2013-2015 - Coordinator for Switzerland for the European COST Action "Black Holes in a Violent Universe"**
- **Summer 2013 - Coordinator of KITP Program "A Universe of Black Holes", July-September 2013 at the Kavli Institute of the University of California in Santa Barbara**
- since August 2013 **Member of the LISA Consortium, scientific advisor activity for planned LISA gravitational wave observatory (ESA)**
- **Swiss Representative for COST Action Network "Gravitational Wave Universe", 2017-onward**
- **Member PLATO Theory Working Group, since 2014**
- **Spokesperson for Domain-1 of NCCR network "PlanetS" since November 2016, and NCCR Board Member since 2014**
- **2015-2017, Chair of the Physics Track for PASC Supercomputing Conference Series (one of the two major yearly events in Europe for supercomputing across all domain sciences, partnered with ACM and the main Supercomputing Conference in the US**
- **2018-2019, Co-Chair of the Physics Track for the PASC Conferences Paper Series**
- **2018 - appointed Co-Chair of Astrophysics Working Group and LISA Science Team Member for the International LISA Consortium**

#### **Conference organization in the last 5 years (only a selection)**

*Session Chair at 13th Marcel Grossman Meeting, Stockholm, 1-7, July 2012*

*SOC 43rd Saas Fee Advanced Course, 2013, "Star Formation in Galaxy Evolution" Villars, Switzerland*

*SOC Davos Computational Astrophysics Conference "Carving through the Codes", Feb 10-14, 2017, Davos, Switzerland*

*SOC International Workshop "Disc instabilities across cosmic scales", Sexten Center for Astrophysics, July 17-20, Sexten, Italy*

*SOC PASC Mini-Symposia at PASC15 (ETH Zurich, 2015), PASC16 (EPFL Lausanne, 2016) and PASC17 (USI Lugano, 2017).*

*SOC 48th Saas Fee Advanced Course, January 2018, "Black Hole Formation and Growth", Saas Fee, Switzerland*

*SOC 1st LISA Astrophysics Working Group Workshop, 12-14 December 2018, IAP, Paris, France*

**PhD students supervised since 2006** Simone Callegari, Tristen Hayfield, Robert Feldmann (ETH, now SNF Professor at ICS), Marina Galvagni, Javiera Guedes (at UC Santa Cruz), Mihai Tomozeiu, Davide Fiacconi, Valentina Tamburello, Aleksandra Sokolowska, Tomas Tamfal (ongoing), Hongping Deng (ongoing), Rafael Souza Lima (ongoing), Marco Cilibrasi (ongoing)

**Bs/Msc students supervised since 2006** Cedric Huwyler, Marco Furgler, Ann-Christine Vossberg-Straw (at ETHZ), Fabio Luchsiger (at ETHZ), Alice Chau (at ETHZ), Simon Mueller, Tomas Tamfal (at ETHZ)

**Postdocs mentored since 2006** Silvia Bonoli, Javiera Guedes, Thomas Peters, Alireza Rahmati, Rok Roskar, Farzana Meru, Clement Surville (ongoing), Mark Hutchison (ongoing), Pedro Capelo (ongoing), Jean-David Bodenan (ongoing), Judit Szulagy (joined as SNF Ambizione Fellow), Elisa Bortolas (ongoing)

### **Teaching at UNIZH and ETHZ (2011-2018)**

General Relativity (HS11), Proseminar Theoretical Physics (FS12), Theoretical Astrophysics (HS12, HS13, HS14), Theoretical Cosmology (FS13, FS14, FS15, FS16, FS17, FS18), Computational Astrophysics (HS15, HS16, HS17, HS18), The Universe (FS18)