

CURRICULUM VITAE

PERSONAL DATA

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|--------------|---|----------------|------------------|
| FAMILY NAME | Ricci | FIRST NAME | Claudio |
| NATIONALITY | Italian | PLACE OF BIRTH | Rome (IT) |
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RESEARCH INTERESTS

Supermassive black holes, Active Galactic Nuclei (AGN) physical structure and kinematics, AGN evolution, high-energy astrophysics, X-ray spectroscopy, simulations of reprocessed X-ray radiation (ray tracing), heavily obscured accretion onto supermassive black holes, Luminous and Ultra-luminous infrared galaxies, Cosmic X-ray background.

RESEARCH EXPERIENCE

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|------------------------|--|
| March 2018 – Present | Assistant professor at the Nucleo de Astronomia Universidad Diego Portales, Santiago, Chile; Long-term visiting professor at KIAA, Peking University, Beijing, China; |
| Apr. 2016 – March 2018 | China-Conicyt fellow at the institute of Astronomy Pontificia Universidad Catolica de Chile Santiago, Chile; KIAA, Peking University Beijing, China; CASSACA, Santiago, Chile. |
| Feb. 2015 – March 2016 | Postdoctoral fellow at the Institute of Astronomy, Pontificia Universidad Catolica de Chile Santiago, Chile. |
| Dec. 2012 — Dec. 2014 | JSPS fellow at the Dept. of Astronomy, Kyoto University, Kyoto, Japan. |
| Jan. 2012 — Oct. 2012 | ASTRO-H postdoctoral fellow at ISDC, University of Geneva, Geneva, Switzerland. |
| Jan. 2008 — Dec. 2011 | Ph.D in astrophysics at ISDC, University of Geneva, Geneva, Switzerland. |

EDUCATION

- Jan. 2008 — Dec. 2011 **Ph.D in astrophysics** at ISDC, University of Geneva, Geneva, Switzerland.
Thesis title: *Active Galactic Nuclei at hard X-ray energies: Absorption, Reflection and the Unified Model*.
Grade: Très bien (highest grade).
Advisor: Prof. T. Courvoisier.
Committee Dr. V. Beckmann, Prof. F. Fiore, Dr. S. Paltani, Prof. D. Pfenninger, Dr. R. Walter.
- Sep. 2005 — Oct. 2007 **Master in Astrophysics** at Rome University *La Sapienza*, Rome, Italy.
Thesis title: *Multiwavelength study of the active galaxy IGR J21247+5058*.
Grade: 110/110 cum laude.
Advisors: Prof. E. Massaro, Prof. T. Courvoisier, Dr. V. Beckmann.
Exam's grade average: 29.9/30. Rank: first of my class.
- Sep. 2002 — Sep.2005 **Bachelor in physics** at Rome University, *La Sapienza*, Rome, Italy.
Thesis title: *Globular cluster systems in galaxies*.
Grade: 110/110 cum laude.
Advisor: Prof. R. Capuzzo Dolcetta.

CONFERENCES AND SEMINARS

Talk Contributions

- Oct. 2019 **Invited talk** at the *IAU Symposium: Nuclear Activity in Galaxies Across Cosmic Time*
Addis Ababa, Ethiopia [scheduled]
- Feb. 2019 **Invited talk** at the *INTEGRAL looks AHEAD to Multimessenger astronomy* workshop
Geneva, Switzerland [scheduled]
- Jan. 2019 **Invited talk** at the *X-ray Surveys of the Hot and Energetic Universe* conference
Harbin, China [scheduled]
- Dec. 2018 **Invited review talk** at the *Torus workshop 2018*
Puerto Varas, Chile [scheduled]
- Oct. 2018 Contributed talk at the *Chilean Astronomical Society National meeting*
La Serena, Chile
- July 2018 **Invited review talk** at the *AGN X-ray Surveys: Soft to Hard and Deep to Wide*
at the COSPAR Scientific Assembly 2018
Pasadena, USA
- July 2018 Lunch talk at the Kavli Institute for Astronomy and Astrophysics
Beijing, China

- Jan. 2018 **Invited talk** at the *BASS special session*
at the 231st Meeting of the American Astronomical Society
Washington DC, USA
- Dec. 2017 Contributed talk at the *Towards Science in Chile with LSST* workshop
Santiago, Chile
- Oct. 2017 Colloquium at Universidad de Chile
Santiago, Chile
- Oct. 2017 **Invited talk** at the *INTEGRAL Symposium 2017*
Venice, Italy
- June 2017 **Invited talk** at the *Behind the curtains of dust II,
the molecular and multi-wavelength view
of activity in (U)LIRGs* workshop
Sexten, Italy
- June 2017 Contributed talk at the *Accreting Black holes at their extremes*
symposium of the European Astronomical Society meeting
Prague, Czech Republic
- June 2017 Colloquium at Observatoire de Geneve
Geneva, Switzerland
- June 2017 **Invited talk** at the *Elusive AGN in the next era* conference
Fairfax, USA
- June 2017 Contributed talk at the *X-ray Universe* conference
Rome, Italy
- May 2017 **Invited colloquium** at the Joint ALMA observatory,
Santiago, Chile
- Feb. 2017 **Invited colloquium** at the Department of Astronomy,
Xiamen University
Xiamen, China
- Feb. 2017 Contributed talk at the *KIAA-PUC Bilateral Workshop
on Active Galactic Nuclei and Galaxies*
Beijing, China
- Jan. 2017 Contributed talk at the *Annual meeting of the
Chilean Astronomical society*
Marbella, Chile
- Aug. 2016 Contributed talk at the *Hidden monsters – obscured
AGN and connections to Galaxy evolution* conference,
Dartmouth, USA
- Feb. 2016 **Invited review talk** at the *X-ray View of Black Hole
Activity in the Local Universe* conference,
Zurich, Switzerland
- Oct. 2015 **Invited talk** at the *INTEGRAL 2015: the New
High Energy Sky after a Decade of Discoveries* conference,
Rome, Italy
- Sep. 2015 Contributed talk at the *Demographics and environment of
AGN from multi-wavelength surveys* conference,
Chania, Greece
- Sep. 2015 **Invited talk** at the *Torus 2015: the unification scheme after
30 years* conference, Southampton, UK
- Mar. 2015 Contributed talk at the *NuSTAR* collaboration meeting
Bologna, Italy

- Dec. 2014 Contributed talk at the *Swift: 10 Years of Discovery* conference, Rome, Italy
- July 2014 Seminar talk at RIKEN, Saitama, Japan
- July 2014 Colloquium at ISAS JAXA, Tokyo, Japan
- June 2014 Contributed talk at the *X-ray Universe 2014* conference, Dublin, Ireland
- Mar. 2014 Colloquium at Tokyo University, Tokyo, Japan
- Feb. 2014 **Invited talk** at the *ASTRO-H HXI/SGD* workshop, Hiroshima, Japan
- Nov. 2013 Seminar talk at IPMU, Tokyo, Japan
- Oct. 2013 Contributed talk at *IAU Symposium 304: Multiwavelength AGN Surveys and Studies*, Byurakan, Armenia
- Oct. 2013 Seminar talk at ISDC Data Centre for Astrophysics, Geneva, Switzerland
- Oct. 2013 Seminar talk at the institute for Astronomy, ETH, Zurich, Switzerland
- Aug. 2013 Contributed talk at *East Asia AGN workshop 2013*, Sapporo, Japan
- May 2013 Contributed talk at the *9th Serbian Conference on Spectral Line Shapes in Astrophysics*, Banja Koviljaca, Serbia
- July 2012 Contributed talk at the *Seyfert Galaxies: Known and the Unknown* session of the 39th COSPAR Scientific Assembly, Mysore, India
- July 2012 Contributed talk at the *ASTRO-H: High-energy Astrophysics with the Next-Generation X-ray Observatory* session of the European Week of Astronomy and Space Science, Rome, Italy
- June 2012 Seminar talk at IPAG, Grenoble, France
- May 2012 Colloquium at the University of Valencia, Spain
- Oct. 2011 Contributed talk at the Swiss Society for Astronomy and Astrophysics meeting, Geneva, Switzerland
- Apr. 2011 Contributed talk at the *Narrow Line Seyfert 1 galaxies and their place in the Universe workshop*, Milano, Italy
- Nov. 2010 Colloquium at Academia Sinica Institute of Astronomy and Astrophysics (ASIAA), Taipei, Taiwan
- Nov. 2010 Contributed talk at the *New Hard X-ray Mission Observatory (NHXM) workshop* in Valencia, Spain
- Mar. 2010 **Invited talk** on "Black holes of all scales as seen by *INTEGRAL*" at the *INTEGRAL* Tutorial Session during the 40th Saas-Fee Course: *Astrophysics at Very-High Energies*, Les Diablerets, Switzerland
- July 2008 Seminar talk at the Indian Institute of Astrophysics, Bangalore, India

Schools and workshops attended

- Feb. 2016 *ESO/NEON Observing School*,
Santiago & La Silla, Chile
- Sep. 2014 *AtomDB workshop*,
Tokyo, Japan
- Jan. 2014 *Quasar science with Subaru/HSC: Toward the first results*,
Taipei, Taiwan
- Oct. 2012 *8th IRAM Millimeter Interferometry School*,
Grenoble, France
- Mar. 2010 40th Saas-Fee Course: *Astrophysics at Very-High Energies*,
Les Diablerets, Switzerland
- July 2009 *The first school on multi-wavelength astronomy*, Paris, France
- July 2008 *The second IIA–PennState Astrostatistics School*,
Vainu Bappu Observatory, India

Poster Contributions

- Mar. 2015 *Unveiling the AGN-galaxy evolution connection*
Puerto Varas, Chile
- Feb. 2014 *Suzaku-MAXI conference: expanding the frontiers
of the X-ray Universe*, Matsuyama, Japan
- May 2013 *The restless nature of AGNs: variability as a probe
of the central engine*, Napoli, Italy
- June 2011 *The X-ray Universe 2011 Symposium*, Berlin, Germany
- Feb. 2011 *Fast X-ray timing and spectroscopy at extreme count rates*,
Champéry, Switzerland
- Sep. 2010 *8th INTEGRAL Workshop: The Restless Gamma-ray
Universe*, Dublin, Ireland
- Aug. 2009 IAU Symposium 267, *Evolution of Galaxies and
Central Black Holes: Feeding and Feedback*,
Rio de Janeiro, Brazil
- Sep. 2008 *7th INTEGRAL workshop: an INTEGRAL view
of compact objects*, Copenhagen, Denmark
- Oct. 2007 Workshop *Five years of INTEGRAL*, Cagliari, Italy

AWARDS

- 2017: Fondecyt Inician a la academia (3 years)
- 2015: China-CONYCIT fellowship (2+1 years) - top ranking proposal
- 2012: JSPS fellowship (2 years)
- 2006: Master thesis abroad scholarship (one year)
- 2005: Erasmus scholarship (one year)
- 2004: Scholarship of the department of physics of Rome University (one year)

2003: Scholarship of the department of physics of Rome University (one year)
2002: Winner of *Altrimondi*, a national astronomical contest of the University of Torino and the University of Padova for high school students (Committee: Pacini F., Ferrari A., Serio S.)

OBSERVING TIME AS P.I. AND CO-P.I.

- ★ 50 ks *NuSTAR* 2018 DDT (P.I.)
- ★ 50 ks *NuSTAR* 2018 DDT (P.I.)
- ★ 55 ks *XMM-Newton* 2018 DDT (P.I.)
- ★ 45 ks *XMM-Newton* 2018 DDT (P.I.)
- ★ 200 ks *NuSTAR* during AO-4 (P.I.)
- ★ 120 ks *XMM-Newton* during *NuSTAR* AO-4 (P.I.)
- ★ 230 ks *NuSTAR* during AO-3 (P.I.)
- ★ 200 ks *NuSTAR* during AO-3 (co-P.I.)
- ★ 80 ks *NuSTAR* during AO-3 (co-P.I.)
- ★ 190 ks *NuSTAR* during AO-3 (co-P.I.)
- ★ 200 ks *NuSTAR* during AO-3 (co-P.I.)
- ★ 300 ks *NuSTAR* (+ 150 ks simultaneous *XMM-Newton*) during AO-3 (co-P.I.)
- ★ 100 ks *XMM-Newton* during AO-16 (P.I.)
- ★ 126 ks *XMM-Newton* during AO-16 (co-P.I.)
- ★ 173 ks *XMM-Newton* during AO-16 (co-P.I.)
- ★ 128 ks *XMM-Newton* during AO-16 (co-P.I.)
- ★ 215 ks *NuSTAR* during AO-2 (P.I.)
- ★ 30 ks *NuSTAR* during AO-2 (P.I.)
- ★ 13.5 hours with ESO/VISIR during period 100 (co-P.I.)
- ★ 65 hours with ESO/VISIR during period 100 (co-P.I.)
- ★ 27 hours with ALMA during cycle 5 (co-P.I.)
- ★ 15.2 hours with ALMA during cycle 5 (co-P.I.)
- ★ 4.4 hours with ALMA during cycle 5 (co-P.I.)
- ★ 6 orbits with *Hubble Space Telescope* during cycle 25 (co-P.I.)
- ★ 1250 ks with *INTEGRAL* during AO-15 (co-P.I.)
- ★ 31 hours with ESO/FORS2 during period 99 (co-P.I.)
- ★ 37 hours with ESO/XSHOOTER during period 99 (co-P.I.)
- ★ 1 night with ESO/VISIR during period 99 (co-P.I.)
- ★ 19.2 hours with ESO/VISIR during period 99 (co-P.I.)
- ★ 56.5 hours with ESO/VISIR during period 99 (co-P.I.)
- ★ 14 hours with ESO/VISIR during period 99 (co-P.I.)
- ★ 25 hours with ESO/VISIR during period 99 (co-P.I.)
- ★ 222 ks *Chandra* during cycle 18 (co-P.I.)
- ★ 13 hours with ESO/XSHOOTER during period 98 (co-P.I.)
- ★ 56.5 hours with ESO/VISIR during period 98 (co-P.I.)
- ★ 2500 ks with *INTEGRAL* during AO-14 (co-P.I.)
- ★ 0.7 hours with Gemini/FLAMINGOS – Gemini Fast Turnaround Program 2016
- ★ 10 nights with DuPont/Echelle semester 2016A (P.I.)
- ★ 1 night with the Magellan Clay/LDSS3 during semester 2016A (P.I.)
- ★ 100 ks *Suzaku* during AO-8 (P.I.)
- ★ 12 ks *Chandra* during AO-12 (P.I.)
- ★ 2Ms *INTEGRAL* data rights on 3C 190 during AO-6 (P.I.)

- ★ 2Ms *INTEGRAL* data rights on IGR J21247+5058 during AO-6 (P.I.)
- ★ 160 ks *Suzaku* during AO-10 (co-P.I.)
- ★ 160 ks *Suzaku* during AO-9 (co-P.I.)
- ★ 240 ks *Suzaku* during AO-9 (co-P.I.)
- ★ 2Ms *INTEGRAL* data rights on IGR J21247+5058 during AO-5 (co-P.I.)
- ★ 250 ks *INTEGRAL* during AO-6 (co-P.I.)
- ★ 400 ks *INTEGRAL* during AO-6 (co-P.I.)
- ★ 300 ks *INTEGRAL* during AO-7 (co-P.I.)
- ★ 400 ks *INTEGRAL* during AO-7 (co-P.I.)
- ★ 500 ks *INTEGRAL* during AO-9 (co-P.I.)
- ★ 300 ks *INTEGRAL* ToO during AO-10 (co-P.I.)

FUNDINGS OBTAINED

- 2017 CONYCIT PAI (3 years): 300,000 USD
- 2015 China-CONYCIT fellowship (2+1 years): 72,000-108,000 USD
- 2014 Grants-in-aid for scientific research (Kakenhi): 800,000 Yen (~6,500 USD)
- 2014 JSPS fellowship for foreign researchers: 2,896,000 Yen (~23,600 USD)
- 2013 Grants-in-aid for scientific research (Kakenhi): 1,200,000 Yen (~9,800 USD)
- 2013 JSPS fellowship for foreign researchers: 4,344,000 Yen (~35,400 USD)
- 2012 Grants-in-aid for scientific research (Kakenhi): 400,000 Yen (~3,300 USD)
- 2012 JSPS fellowship for foreign researchers: 1,448,000 Yen (~12,000 USD)
- 2012 39th COSPAR Scientific Assembly travel grant: 1,000 euros (~1,100 USD)
- 2012 Swiss Astronomical Society travel grant: 1,000 CHF (~1,100 USD)
- 2011 Swiss Astronomical Society travel grant: 1,000 CHF (~1,100 USD)
- 2011 Swiss National Science Foundation PhD fellowship: 75,000 CHF (~80,000 USD)
- 2010 Swiss National Science Foundation PhD fellowship: 70,000 CHF (~74,000 USD)
- 2009 Swiss National Science Foundation PhD fellowship: 60,000 CHF (~64,000 USD)
- 2008 Swiss National Science Foundation PhD fellowship: 60,000 CHF (~64,000 USD)

PROFESSIONAL AFFILIATIONS

BAT AGN Spectroscopical Survey – core team (<http://www.bass-survey.com/>)

NuSTAR science team - member of the: i) *Extragalactic Surveys*, ii) *NuBAT*, iii) *AGN physics*, iv) *Obscured AGN* working groups

GATOS *JWST* collaboration (<http://gatos.strw.leidenuniv.nl/>)

Athena science team - member of *close environment of supermassive black holes* working group

SERVICE TO THE COMMUNITY

Science Organising committee of the *Dual Nuclei in Late Stage Galaxy Mergers and their Effect on Galaxy Evolution* special session at the EWASS 2019 meeting

Co-chair of the *Radio Galaxies: resolving the AGN phenomenon* focus meeting at the IAU General Assembly 2018

Co-chair of the *Local hard X-ray selected AGN across the multi-wavelength spectrum* international workshop at ESO/Santiago

Science Organising committee member of the *KIAA-PUC Bilateral Workshop on Active Galactic Nuclei and Galaxies (2017)*

Co-chair of the *Radio Galaxies: resolving the AGN phenomenon* session at the 41st COSPAR meeting (Istanbul, Turkey). [The COSPAR meeting was cancelled because of a coup in Turkey a few weeks before it took place].

Referee for Nature, Nature Astronomy, ApJ, ApJL, ApJS, MNRAS, A&A, Astrophysics and Space Science.

Reviewer for NASA satellites proposals

Reviewer for *ASTROSAT* proposals

Reviewer for international funding schemes (Conicyt programs – Chile; *NuSTAR* Archive Research Opportunity – Italy; National Research, Development and Innovation Office – Hungary)

TEACHING AND SUPERVISION EXPERIENCE

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| 2018 | General astronomy class, Universidad Diego Portales |
| 2018 | PhD thesis of Mr. Li Ruancun (KIAA, co-supervision) |
| 2018 | Bachelor thesis project of Ms. Carolina Andonie (supervision) |
| 2016/2017 | Research project of Ms. Carolina Andonie (supervision) |
| 2016/2017 | Research project of Mr. Dusan Tubin (supervision) |
| 2017 | 3rd year summer research project (1 month) of Ms. Carolina Andonie (supervision) |
| 2017 | 3rd year summer research project (1 month) of Mr. Dusan Tubin (supervision) |
| 2016 | 2nd year summer research project (1 month) of Ms. Carolina Andonie (supervision) |
| 2016 | 2nd year summer research project (1 month) of Mr. Dusan Tubin (supervision) |
| 2015 | Master thesis of Mr. Francisco Ley (co-supervision) |
| 2012 | 4th year research project (9 months) of Ms. Audrey Maiuro (co-supervision) |
| 2011 | 3rd year research project (3 months) of Mr. Javier Bilbao (supervision) |
| 2010 | 3rd year research project (3 months) of Mr. Lucas Grosjean (supervision) |
| 2010 | 4th year research project (9 months) of Ms. Tania Blanchard (co-supervision) |
| 2008 | 4th year research project (9 months) of Mr. Nahuel Cabral (co-supervision) |

OUTREACH AND OTHER ACTIVITIES

I actively involved myself in several outreach activities, and gave lectures of general astronomy to elementary and middle schools in Italy. In Japan I gave lectures to high school students within the framework of the JSPS Science Dialogue program.

To promote communication between scientists working in AGN, I led the creation, in collaboration with Prof. E. Perlman (Florida Institute of Technology) and Dr. B. Trakhtenbrot (ETH Zurich), of the “Active Galactic Nuclei” group on Facebook, a space to discuss scientific matters related to AGN, and dedicated exclusively to researchers working in the field. The group has currently more than 600 astronomers from all over the world.

I am co-organising monthly meetings on AGN science in Santiago, which involves researchers from all Universities (PUC, UDP, U. Chile, UNAB) and from ESO and ALMA.

SKILLS

Languages Italian (mother tongue)
 English (fluent)
 French (fluent)
 Spanish (good)
 Chinese (beginner)
 Japanese (beginner)

REFERENCES

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- Prof. Franz Bauer,
Institute of Astronomy, Pontificia Universidad Catolica de Chile,
Avda. Vicuna Mackenna 4860, Santiago, Chile
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- Prof. Ezequiel Treister,
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