

CURRICULUM VITAE

PERSONAL DATA

FAMILY NAME	Ricci	FIRST NAME	Claudio
NATIONALITY	Italian	PLACE OF BIRTH	Rome
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RESEARCH INTERESTS

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

RESEARCH EXPERIENCE

Mar. 2018 – Present	Assistant professor at the Nucleo de Astronomia, Universidad Diego Portales, Santiago, Chile; Long-term visiting professor at the Kavli Institute for Astronomy and Astrophysics, Peking University, Beijing, China; Affiliated faculty at the Dept. of Astronomy George Mason University, Fairfax, USA
Apr. 2016 – Mar. 2018	China-Conicyt fellow at the Institute of Astrophysics Pontificia Universidad Catolica de Chile Santiago, Chile;
Feb. 2015 – Mar. 2016	Postdoctoral fellow at the Institute of Astrophysics, 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	<i>ASTRO-H</i> postdoctoral fellow at the Dept. of Astronomy, University of Geneva, Geneva, Switzerland.
Jan. 2008 – Dec. 2011	Ph.D in astrophysics at the Dept. of Astronomy, University of Geneva, Geneva, Switzerland.

EDUCATION

Jan. 2008 – Dec. 2011	Ph.D in astrophysics at the Dept. of Astronomy, University of Geneva, Geneva, Switzerland Thesis title: <i>Active Galactic Nuclei at hard X-ray energies: Absorption, Reflection and the Unified Model.</i> Grade: <u>Très bien</u> (highest grade).
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- Sep. 2005 – Oct. 2007 **Master in Astrophysics** at Rome University *La Sapienza*, Rome, Italy and at the University of Geneva, Switzerland.
 Thesis title: *Multiwavelength study of the active galaxy IGR J21247+5058*.
 Grade: 110/110 cum laude.
 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.

CONFERENCES AND SEMINARS

Talk Contributions

- Dec. 2020 **Invited talk** at the *Chilean Astronomical Society National meeting*
- Dec. 2020 Contributed talk at the *Supermassive black holes: Formation, growth and evolution* conference
- Nov. 2020 **Invited colloquium** at the *Astronomical Institute of the Czech Academy of Sciences*
 Prague, Czech Republic
- Oct. 2020 **Invited colloquium** at *Institute of Astronomy, Geophysics and Atmospheric Sciences, University of Sao Paulo*
 Sao Paulo, Brazil
- Jul. 2020 **Invited talk** at the *First Latin American Conference on Astrophysics and Relativity* conference [postponed],
 Bogota, Colombia
- Jun. 2020 **Invited talk** at the *The High-Energy Universe in Focus: NuSTAR 2020* conference [postponed],
 Cagliari, Italy
- May 2020 **Invited colloquium** at Cambridge University,
 Cambridge, UK
- Jan. 2020 **Invited Colloquium** at Osaka University, Osaka, Japan
- Jan. 2020 Contributed talk at the *Tidal Disruptions in Kyoto: Confronting Theory with Observations* conference,
 Kyoto, Japan
- Nov. 2019 **Invited talk** at the CASSACA annual workshop,
 Santiago, Chile
- Oct. 2019 **Invited talk** at the *IAU Symposium: Nuclear Activity in Galaxies Across Cosmic Time*
 Addis Ababa, Ethiopia
- Sep. 2019 **Invited colloquium** at the Observatory of Roma, Roma, Italy
- Sep. 2019 **Invited colloquium** at the Scuola Normale, Pisa, Italy

- Sep. 2019 **Invited talk** at the *X-ray Astronomy 2019 – Current Challenges and New Frontiers in the Next Decade* conference
Bologna, Italy
- Jun. 2019 **Invited talk** at the *Supermassive Black Holes: Environment and Evolution* conference
Corfu, Greece
- Feb. 2019 **Invited talk** at the *INTEGRAL looks AHEAD to Multimessenger astronomy* workshop
Geneva, Switzerland
- Feb. 2019 Contributed talk at the *BAT AGN Spectroscopic Survey 2019* workshop
Gainesville, USA
- Jan. 2019 Contributed talk at the *East Asia AGN* workshop
Taipei, Taiwan
- Jan. 2019 **Invited talk** at the *X-ray Surveys of the Hot and Energetic Universe* conference
Harbin, China
- Dec. 2018 **Invited review talk** at the *Torus workshop 2018*
Puerto Varas, Chile
- Oct. 2018 Contributed talk at the *Chilean Astronomical Society National meeting*
La Serena, Chile
- Jul. 2018 **Invited colloquium** at the National Astronomical Observatory of, China/CAS Beijing, China
- Jul. 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
- Jul. 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-ray₃ 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

AWARDS

2017: Conicyt Subvencion a la Instalacion en 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.

A total of 1320 ks with *NuSTAR*, 785 ks with *XMM-Newton*, 28 nights with ground-based telescopes and 27 hours with ALMA.

- ★ 2 nights with the Magellan/MagE semester 2020B
- ★ 40 ks *NICER* during *NICER* AO-2
- ★ 100 ks *Swift* during *Swift* AO-16
- ★ 105 ks *NuSTAR* during *XMM-Newton* AO-19
- ★ 105 ks *XMM-Newton* during AO-19
- ★ 170 ks *XMM-Newton* during AO-19
- ★ 6 hours ALMA (priority A) during Cycle 7
- ★ 21 hours ALMA (priority B) during Cycle 7
- ★ 90 ks *NuSTAR* during AO5
- ★ 200 ks *NuSTAR* during AO5
- ★ 50 ks *NuSTAR* 2019 DDT
- ★ 2 nights with the Magellan/MagE semester 2019B
- ★ 90 ks *XMM-Newton* during AO-18
- ★ 100 ks *NuSTAR* during *XMM-Newton* AO-18
- ★ 100 ks *XMM-Newton* during AO-18
- ★ 4 nights with the SOAR/Goodman semester 2019A
- ★ 10 ks *Swift*/XRT 2018 DDT
- ★ 50 ks *NuSTAR* 2018 DDT
- ★ 50 ks *NuSTAR* 2018 DDT
- ★ 55 ks *XMM-Newton* 2018 DDT
- ★ 45 ks *XMM-Newton* 2018 DDT
- ★ 4 nights with the SOAR/Goodman semester 2018B
- ★ 1 night with the Magellan/MagE semester 2018B
- ★ 4 nights with the SOAR/Goodman semester 2018A
- ★ 200 ks *NuSTAR* during AO-4
- ★ 120 ks *XMM-Newton* during *NuSTAR* AO-4
- ★ 230 ks *NuSTAR* during AO-3
- ★ 100 ks *XMM-Newton* during AO-16
- ★ 215 ks *NuSTAR* during AO-2
- ★ 30 ks *NuSTAR* during AO-2
- ★ 10 nights with DuPont/B&C semester 2016A
- ★ 1 night with the Magellan Clay/LDSS3 during semester 2016A
- ★ 100 ks *Suzaku* during AO-8
- ★ 12 ks *Chandra* during AO-12
- ★ 1 Ms *INTEGRAL* data rights on 3C 190 during AO-6
- ★ 1 Ms *INTEGRAL* data rights on IGR J21247+5058 during AO-6

FUNDINGS OBTAINED

2019	China-Chile fund (2 years): 45,000 USD
2019	ALMA-Conicyt fund (2 years): 76,000 USD
2019	Fondecyt Iniciacion (3 years): 130,000 USD
2019	NASA PI Grant: 85,000 USD
2019	NASA PI Grant: 65,000 USD
2017	CONYCIT PAI (3 years): 300,000 USD
2015	China-CONYCIT fellowship (2+1 years): 72,000-108,000 USD
2012	Grants-in-aid for scientific research (Kakenhi, 2 years): ~22,000 USD
2012	JSPS fellowship for foreign researchers (2 years): ~80,000 USD
2012	39th COSPAR Scientific Assembly travel grant: 1,000 euros (~1,100 USD)
2011/2012	Swiss Astronomical Society travel grant: 2,000 CHF (~2,200 USD)

PROFESSIONAL AFFILIATIONS

- Co-founder of the BAT AGN Spectroscopical Survey – (<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/>)
- GOALS collaboration (<https://www.ipac.caltech.edu/project/goals>)
- CONQUEST collaboration
- *Athena* science team - member of *close environment of supermassive black holes* working group
- *SPICA* science team - member of *Galaxy Evolution* working group
- *Theseus* science team
- Chilean *CTA* collaboration
- *LSST* collaboration – member of the AGN & transients working groups
- *SDSS V* collaboration

SERVICE TO THE COMMUNITY

- 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 the Chilean National Time Allocation Committee

- Member of the China-Chile joint committee
- Reviewer for Telescope Access Program proposal (China)
- Reviewer for international funding schemes (Conicyt programs – Chile; *NuSTAR* Archive Research Opportunity – Italy; National Research, Development and Innovation Office – Hungary; National Science Center – Poland)
- Science Organising committee of the *Active Galaxies and Quasars Reference Systems in the Gaia Era* conference, Paris (2020)
- 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 was supposed to take place].

TEACHING AND MENTORING EXPERIENCE

Teaching

2021	High-energy Astrophysics (PhD course) Kavli Institute for Astronomy and Astrophysics [scheduled]
2020/Sem. 2	General Astronomy (undergraduate course), Universidad Diego Portales
2020/Sem. 1	General Astronomy (undergraduate course), Universidad Diego Portales
2020/Sem. 1	Radiative processes in Astrophysics (PhD course), Universidad Diego Portales
2019/Sem. 2	General Astronomy (undergraduate course), Universidad Diego Portales
2019/Sem. 1	Extragalactic Astrophysics (PhD course), Universidad Diego Portales
2018/Sem. 2	General Astronomy (undergraduate course), Universidad Diego Portales

Postdocs

2020–now	Supervision of Dr. Matthew Temple (PhD 2020, Cambridge University, UK)
2020–now	Supervision of Dr. Taiki Kawamuro (PhD 2017, Kyoto University, Japan)
2019–now	Supervision of Dr. Alessia Tortosa (PhD 2017, Roma Tre, Italy)

Students

2020–now	PhD thesis of Mr. Jeffrey McKaig (GMU/UDP, supervision)
2020–now	PhD thesis of Ms. Melissa Bierschenk (GMU/UDP, co-supervision)
2019–now	PhD thesis of Ms. Kriti Gupta (UDP, supervision)
2018–now	PhD thesis of Mr. Li Ruancun (KIAA, co-supervision)
2018–now	PhD thesis of Mr. Ryan Pfeifle (George Mason Univ., co-supervision)
2018	Bachelor thesis project of Ms. Carolina Andonie (PUC; supervision)
2016/2017	Research project of Ms. Carolina Andonie (PUC; supervision)
2016/2017	Research project of Mr. Dusan Tubin (PUC; supervision)
2017	3rd year summer project (1 month) of Ms. Carolina Andonie (PUC; supervision)
2017	3rd year summer project (1 month) of Mr. Dusan Tubin (PUC; supervision)
2016	2nd year summer project (1 month) of Ms. Carolina Andonie (PUC; supervision)
2016	2nd year summer project (1 month) of Mr. Dusan Tubin (PUC; supervision)
2015	Master thesis of Mr. Francisco Ley (PUC; co-supervision)
2012	4th year project (9 months) of Ms. Audrey Maiuro (ISDC; co-supervision)
2011	3rd year project (3 months) of Mr. Javier Bilbao (ISDC; supervision)
2010	3rd year project (3 months) of Mr. Lucas Grosjean (ISDC; supervision)
2010	4th year project (9 months) of Ms. Tania Blanchard (ISDC; co-supervision)
2008	4th year project (9 months) of Mr. Nahuel Cabral (ISDC; 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 (Tel Aviv University), 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 about 1200 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, ALMA/JAO and CASSACA (see www.activegalacticnuclei.cl).

SKILLS

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