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

Jan. 2024 – Present	Scientific Editor for the AAS journals
Aug. 2021 – Present	Associate professor at the Institute of Astrophysical Studies,
	Universidad Diego Portales, Santiago, Chile;
Mar. 2018 – Present	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
Mar. $2018 - Aug. 2021$	Assistant professor at the Institute of Astrophysical Studies,
	Universidad Diego Portales, Santiago, Chile;
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	ASTRO-H 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: Active Galactic Nuclei at hard X-ray energies: Absorption, Reflection and the Unified Model. Grade: Très bien (highest grade). 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. 2005Bachelor in physics at Rome University, La Sapienza, Rome, Italy. Thesis title: Globular cluster systems in galaxies.

Grade: 110/110 cum laude.

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RECENT O	CONFERENCES AND SEMINARS
Jul. 2024	Invited review talk at the Spectral/timing properties of AGN: theory and observations event, COSPAR 2024 Seoul, South Korea [scheduled]
Jun. 2024	Invited talk at the Latin American Conference on Astrophysics and Relativity conference Bogota, Colombia [scheduled]
Oct. 2023	Contributed talk at Multi-wavelength AGN Structure and Cosmological Applications conference Nice, France [online]
Jun. 2023	Invited review talk at <i>The restless nature of AGN: 10 years later</i> conference Naples, Italy
Jun. 2023	Invited talk at the <i>X-ray Universe 2023</i> conference Athens, Greece
Dec. 2022	Colloquium at the Max Planck Institute for Radio Astronomy Bonn, Germany
Dec. 2022	Invited review talk at the Torus workshop 2022 Leiden, Netherlands
Dec. 2022	Invited talk at the SKIRT days workshop Ghent, Belgium
Nov. 2022	Invited talk at the 4th Chile-Japan Academic Forum Puerto Varas, Chile
Oct. 2022	Invited lecture on AGN at the VLTI High angular resolution Observations Workshop, ESO Santiago, Chile

Invited talk at the NICER 2022 workshop Aug. 2022 Jul. 2022 Invited review talk at the Twenty years of AGN discoveries with space observations: main results and perspectives on AGN in the high-energy sky event, COSPAR 2022, Athens, Greece Jul. 2022 Contributed talk at the Spectral/Timing/Polarimetry Properties of AGN: Theory and Observations of the Inner Workings in these Objects session COSPAR 2022, Athens, Greece Jun. 2022 **Invited Colloquium** at the National Observatory Athens. Greece Jun. 2022 Invited review talk at the Ten Years of High-Energy Universe in Focus conference, Cagliari, Italy Jun. 2022 **Invited talk** at the Black hole accretion under the X-ray microscope conference, Madrid, Spain Invited talk at the SDSS-V Second Chilean meeting Apr. 2022 Oct. 2021 Invited colloquium at Tel Aviv University, Tel Aviv, Israel Oct. 2021 Invited colloquium at the University of Southampton, Southampton, UK Jun. 2021 Contributed talk at the *The Transient Universe* Symposium of the EAS21, Leiden, Netherlands Contributed talk at the Black holes under the magnifying glass Jun. 2021 of XRISM and Athena Special session of the EAS21, Leiden, Netherlands Mar. 2021 Invited colloquium at the Universidad de Valparaiso, Valparaiso, Chile Mar. 2021 Contributed talk at the *Theseus workshop* 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 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 Invited colloquium at Cambridge University, May 2020 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
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 <i>Chilean Astronomical Society National meeting</i> 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	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	Invited talk at the Elusive AGN in the next era conference Fairfax, USA
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. 2016	Invited review talk at the X-ray View of Black Hole Activity in the Local Universe conference, Zurich, Switzerland

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 1420 ks with *NuSTAR*, 785 ks with *XMM-Newton*, 28 nights with ground-based telescopes and 85 hours with ALMA.

- * 33 hours ALMA (priority B) during Cycle 10
- * 25 hours ALMA (priority A) during Cycle 8
- \star 100 ks NuSTAR during AO7
- ★ 2 nights with the Magellan/MagE semester 2020B
- \star 40 ks NICER during NICER AO-2
- \star 100 ks Swift during Swift AO-16
- \star 105 ks NuSTAR during XMM-Newton AO-19
- * 105 ks XMM-Newton during AO-19
- \star 170 ks XMM-Newton during AO-19
- * 6 hours ALMA (priority A) during Cycle 7
- * 21 hours ALMA (priority B) during Cycle 7
- \star 90 ks NuSTAR during AO5
- \star 200 ks NuSTAR during AO5
- \star 50 ks NuSTAR 2019 DDT
- * 2 nights with the Magellan/MagE semester 2019B
- \star 90 ks XMM-Newton during AO-18
- \star 100 ks NuSTAR during XMM-Newton AO-18
- \star 100 ks XMM-Newton during AO-18
- * 4 nights with the SOAR/Goodman semester 2019A
- \star 10 ks Swift/XRT 2018 DDT
- $\star~50\,\mathrm{ks}~\textit{NuSTAR}~2018~\mathrm{DDT}$
- \star 50 ks NuSTAR 2018 DDT
- \star 55 ks XMM-Newton 2018 DDT
- \star 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
- \star 200 ks NuSTAR during AO-4
- \star 120 ks XMM-Newton during NuSTAR AO-4
- \star 230 ks *NuSTAR* during AO-3
- \star 100 ks XMM-Newton during AO-16

- \star 215 ks NuSTAR during AO-2
- \star 30 ks NuSTAR during AO-2
- * 10 nights with DuPont/B&C semester 2016A
- * 1 night with the Magellan Clay/LDSS3 during semester 2016A
- \star 100 ks Suzaku during AO-8
- \star 12 ks *Chandra* during AO-12
- \star 1 Ms INTEGRAL data rights on 3C 190 during AO-6
- \star 1 Ms INTEGRAL data rights on IGR J21247+5058 during AO-6

FUNDINGS OBTAINED

2023	China-Chile fund (2 years): 100,000 USD
2023	Fondecyt regular (4 years): 230,000 USD
2022	Gemini-Chile fund (2 years): 60,000 USD
2022	ESO-Chile comite mixto fund (2 years): 55,000 USD
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): \sim 22,000 USD
2012	JSPS fellowship for foreign researchers (2 years): \sim 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 (\sim 2,200 USD)

Professional affiliations

- Co-founder of the BAT AGN Spectroscopical Survey (http://www.bass-survey.com/)
- 4MOST/Changes collaboration. Lead of the T2LST working group.
- LSST collaboration member of the AGN & transients working groups
- $SDSS\ V$ collaboration
- Alerce collaboration
- 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
- Chilean CTA collaboration

2020-2022

Teaching	
2023/Sem. 2	General Astronomy (undergraduate course), Universidad Diego Portales
$2023/{\rm Sem.}\ 1$	Active Galactic Nuclei (PhD course), Universidad Diego Portales
$2022/{\rm Sem.}\ 2$	General Astronomy (undergraduate course), Universidad Diego Portales
2022/Sem. 1	Extragalactic Astrophysics (PhD course), Universidad Diego Portales
2021/Sem. 2	General Astronomy (undergraduate course), Universidad Diego Portales
2021/Sem. 1	Topics of Astrophysics (PhD course), Universidad Diego Portales
2020/Sem. 2	Topics of Astrophysics (PhD course), Universidad Diego Portales
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	
2023–now	Supervision of Dr. Arghajit Jana
	Supervision of Dr. rughajit sana
	(PhD 2019, Indian Centre for Space Physics, India)
2023–now	- · · · · · · · · · · · · · · · · · · ·
	(PhD 2019, Indian Centre for Space Physics, India)
	(PhD 2019, Indian Centre for Space Physics, India) Supervision of Dr. Elena Shablovinskaya
2023–now	(PhD 2019, Indian Centre for Space Physics, India) Supervision of Dr. Elena Shablovinskaya (PhD 2021, Special Astrophysical Observatory, Russia)
2023–now	(PhD 2019, Indian Centre for Space Physics, India) Supervision of Dr. Elena Shablovinskaya (PhD 2021, Special Astrophysical Observatory, Russia) Supervision of Dr. Yaherlyn Diaz
2023–now 2022–now	(PhD 2019, Indian Centre for Space Physics, India) Supervision of Dr. Elena Shablovinskaya (PhD 2021, Special Astrophysical Observatory, Russia) Supervision of Dr. Yaherlyn Diaz (PhD 2022, Universidad de Valparaiso, Chile)
2023–now 2022–now	(PhD 2019, Indian Centre for Space Physics, India) Supervision of Dr. Elena Shablovinskaya (PhD 2021, Special Astrophysical Observatory, Russia) Supervision of Dr. Yaherlyn Diaz (PhD 2022, Universidad de Valparaiso, Chile) Co-supervision of Dr. Alejandra Rojas (PhD 2019, Universidad Andres Bello/ESO, Chile) Supervision of Dr. Matthew Temple
2023–now 2022–now 2021–now	(PhD 2019, Indian Centre for Space Physics, India) Supervision of Dr. Elena Shablovinskaya (PhD 2021, Special Astrophysical Observatory, Russia) Supervision of Dr. Yaherlyn Diaz (PhD 2022, Universidad de Valparaiso, Chile) Co-supervision of Dr. Alejandra Rojas (PhD 2019, Universidad Andres Bello/ESO, Chile)
2023–now 2022–now 2021–now	(PhD 2019, Indian Centre for Space Physics, India) Supervision of Dr. Elena Shablovinskaya (PhD 2021, Special Astrophysical Observatory, Russia) Supervision of Dr. Yaherlyn Diaz (PhD 2022, Universidad de Valparaiso, Chile) Co-supervision of Dr. Alejandra Rojas (PhD 2019, Universidad Andres Bello/ESO, Chile) Supervision of Dr. Matthew Temple
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Supervision of Dr. Taiki Kawamuro (PhD 2017, Kyoto University, Japan);

Now Special postdoctoral fellow at RIKEN (Japan)

Students 2023-now PhD thesis of Ms. Kristina Kallova (UDP, supervision) PhD thesis of Mr. Giorgos Dimopoulos (UDP, supervision) 2021-now 2020-now PhD thesis of Mr. Jeffrey McKaig (GMU/UDP, co-supervision) 2018-now PhD thesis of Mr. Li Ruancun (KIAA, co-supervision) 2019 - 2023PhD thesis of Ms. Kriti Gupta (UDP, supervision) Now a postdoctoral fellow at U. Liege/Ghent (Belgium) 2020 - 2022PhD thesis of Ms. Melissa Bierschenk (GMU, co-supervision) Now a PhD student at GMU (Solar Physics) PhD thesis of Mr. Ryan Pfeifle (George Mason Univ., co-supervision) 2018 - 2022Now NASA postdoctoral fellow 2018 Bachelor thesis project of Ms. Carolina Andonie (PUC; supervision) 2016/2017 Research project of Ms. Carolina Andonie (PUC; supervision)

Research project of Mr. Dusan Tubin (PUC; supervision)

SERVICE TO THE COMMUNITY

2016/2017

- 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 [2020-2022]
- 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)
- Chair of the Special session A new window into the innermost regions of radio-quiet AGN with mm continuum observations at the EAS 2024 meeting, Padova
- Chair of the Extreme supermassive black hole accretion event at the COSPAR 2024 meeting, Busan, South Korea
- Chair of the Symposium *The many faces of accreting black holes* at the EAS 2021 meeting, Leiden
- Science Organising committee of the *China-Chile Astronomical* conference, Puerto Varas (2023)
- 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].

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.

SKILLS

Languages Italian (mother tongue)

English (fluent)
French (fluent)
Spanish (fluent)
Chinese (beginner)