RICCARDO NANNI

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CURRENT POSITION

Department of Physics - UCSB

February 2020 - Present

Postdoctoral Researcher

Broida Hall, University of California, Santa Barbara, CA 93106-9530, USA

Supervisors: Prof. Joseph Hennawi

RESEARCH INTERESTS

• High-redshift quasars

• Primordial super massive black holes

• X-ray/optical/IR quasar properties

• Quasars evolution

EDUCATION

Department of Physics - UCSB

October 2019 - January 2020

Junior Specialist

Broida Hall, University of California, Santa Barbara, CA 93106-9530, USA

Supervisors: Prof. Joseph Hennawi

Istituto Nazionale di Astrofisica - OAS

October 2016 - September 2019

Ph.D. student

Via Piero Gobetti, 93/3, 40129 Bologna (BO), Italia Supervisors: Dr. Roberto Gilli, Prof. Cristian Vignali

Max Planck Institute for Astronomy

 $May\ 2018$ - $November\ 2018$

Ph.D. student intership

Konigstuhl 17, 69117 Heidelberg, Germany

Supervisors: Dr. Fabian Walter

Alma Mater Studiorum, Università degli Studi di Bologna

October 2014 - September 2016

M.S., Astrophysics and Cosmology - Magna cum Laude

Thesis: Study of the $z \geq 5.5$ AGN X-ray properties

Supervisors: Prof. Cristian Vignali, Dr. Roberto Gilli

Alma Mater Studiorum, Università degli Studi di Bologna

October 2011 - September 2014

B.S., Astronomy - Magna cum Laude

Thesis: The importance of hydrogen in astronomy

Supervisors: Prof. Daniele Dallacasa

SOFTWARE SKILLS

Operating Systems: Mac, Windows, Linux Programming Languages: Python, Fortran 90, C++

Astronomy Softwares: CIAO, HEASOFT, SAS16, DS9, MARX

Other Softwares: TOPCAT, Latex, Pycharm

POSITION OF RESPONSIBILITY

- o Twelve nights with Keck I telescope in Mauna Kea using MOSFIRE
- Four nights at the NTT telescope in La Silla Observatory using SOFI and EFOSC2

FIRST NAME PUBLICATIONS

- The deep Chandra survey in the SDSS J1030+0524 field Nanni, R., et al. 2020, Astronomy & Astrophysics accepted, Arxiv: 2003.13710
- \circ The 500 ks Chandra observation of the z=6.31 quasar SDSS J1030+0524 Nanni, R., et al. 2018, Astronomy & Astrophysics, 614, A121
- \circ The X-ray properties of $z \sim 6$ luminous quasars Nanni, R. et al. 2017, Astronomy & Astrophysics, 603, A128

PUBLICATIONS AS CO-AUTHOR

- \circ Revealing the Accretion Physics of Supermassive Black Holes at Redshift $z\sim7$ with Chandra and Infrared Observations
- F. Wang, X. Fan, J. Yang, C. Mazzucchelli, X.-B. Wu, J.-T. Li, E. Bañados, E. P. Farina, **R. Nanni**, Y. Ai, F. Bian, F. B. Davies, R. Decarli, J. F. Hennawi, J.-T. Schindler, B. Venemans, F. Walter, MNRAS, accepted
- X-ray redshifts for obscured AGN: a case study in the J1030 deep field
- A. Peca, C. Vignali, R. Gilli, M. Mignoli, R. Nanni, S. Marchesi, M. Bolzonella, M. Brusa, N. Cappelluti, A. Comastri, G. Lanzuisi, F. Vito, The Astrophysical Journal, accepted
- \circ Discovery of molecular gas fueling galaxy growth in a protocluster at z=1.7
- Q. DAmato, R. Gilli, I. Prandoni, C. Vignali, M. Massardi, M. Mignoli, O. Cucciati, T. Morishita, R. Decarli, M. Brusa, F. Calura, B. Balmaverde, M. Chiaberge, E. Liuzzo, **R. Nanni**, A. Peca, A. Pensabene, P. Tozzi, and C. Norman, Astronomy & Astrophysics, 641, L6
- Testing the paradigm: First spectroscopic evidence of a quasar-galaxy Mpc-scale association at cosmic dawn
- R. Decarli, M. Mignoli, R. Gilli, B. Balmaverde, M. Brusa, N. Cappelluti, A. Comastri, R. Nanni, A. Peca, A. Pensabene, E. Vanzella, C. Vignali, Astronomy & Astrophysics, 631, L10
- \circ Discovery of the first heavily obscured QSO candidate at z > 6 in a close galaxy pair
- F. Vito, W.N. Brandt, F.E. Bauer, R. Gilli, B. Luo, G. Zamorani, F. Calura, A. Comastri, C. Mazzucchelli, M. Mignoli, **R. Nanni**, O. Shemmer, C. Vignali, M. Brusa, N. Cappelluti, F. Civano, and M. Volonteri, Astronomy & Astrophysics, 628, L6
- \circ The X-ray properties of z > 6 quasars: no evident evolution of accretion physics in the first Gyr of the Universe
- F. Vito, W.N. Brandt, F.E. Bauer, F. Calura, R. Gilli, B. Luo, 10, O. Shemmer, C. Vignali, 12, G. Zamorani, M. Brusa, F. Civano, A. Comastri, and R. Nanni, Astronomy & Astrophysics, 630, A118
- \circ Discovery of a galaxy overdensity around a powerful, heavily obscured FRII radio-galaxy at z=1.7: star formation promoted by large scale AGN feedback?
- R. Gilli, M. Mignoli, A. Peca, **R. Nanni**, I. Prandoni, E. Liuzzo, Q. D'Amato, M. Brusa, F. Calura, G.B. Caminha, M. Chiaberge, A. Comastri, O. Cucciati, F. Cusano, P. Grandi, R. Decarli, G. Lanzuisi, F. Mannucci, E. Pinna, P. Tozzi, E. Vanzella, C. Vignali, F. Vito, B. Balmaverde, A. Citro, N. Cappelluti, G. Zamorani, and C. Norman, Astronomy & Astrophysics, 632, A26

o Monthly Notices of the Royal Astronomical Society

TALKS

\circ The deep Chandra survey around $z=6.31$ QSO J1030+0524 National Optical Astronomy Observatory (Tucson, USA)	February 2020
\circ The X-ray variability of $z=6.31$ J1030+0524 Supermassive Black holes Environment & Evolution (Corfu, Greece)	June 2019
\circ The search for companions around $z\sim 6$ quasars Istituto Nazionale di Astrofisica (Bologna, Italy)	November 2018
\circ The X-ray properties of $z \geq 6$ quasars 13th Italian Community AGN Meeting (Milano, Italy)	October 2018
\circ The X-ray properties of $z \geq 6$ quasars Max Plank Institute for Astronomy (Heidelberg, Germany)	September 2018
\circ The X-ray properties of $z \geq 6$ quasars "The early growth of super massive black holes" (Workshop, Sexten, Italy)	July 2018
o The X-ray study of the high-redshift quasars Istituto Nazionale di Astrofisica (Bologna, Italy)	November 2017

POSTERS, CONFERENCES, SCHOOLS

o ALMA Science and Proposals Workshop School (Bologna, Italy)	February 2019
o Black Hole formation and growth School (Saas-Fee, Switzerland)	February 2018
o First Astrostatistic School School Brera (Milano, Italy)	July 2017
o Galaxy Formation and Evolution in a Cosmological Context School AKSS (Spetses, Greece)	May 2017
o Poster: The X-ray study of the high-redshift quasars 12th Italian Community AGN Meeting (Napoli, Italy)	September 2016

OUTREACHES

- \circ Main speaker for the Monthly Conference in Specola: "The astronomy of the ancient Celts" (Bologna, Italy)
- Volunteer at "The Fall of Cassini Event" (Bologna, Italy)

 September 2017
- Volunteer at "European Researchers' Night" (Bologna, Italy)

 September 2017

LANGUAGES

Italian:NativeEnglish:FluentFrench:Elementary