

Francesca M. Civano

Curriculum Vitae et Studiorum

Astrophysicist

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Research interests

Active Galactic Nuclei – Black Hole (BH) seed formation – BH and Galaxy Co-evolution – GW – Recoiling SMBHs – SMBH pairs – Multiwavelength extragalactic surveys – Normal Galaxies

Education

2004 – 2007 PhD student at the Astronomy Department of the Bologna University (Italy). Thesis: *Formation and co-evolution of black holes and their host galaxies at high redshift*. Advisor: Dr A. Comastri.

1998 – 2003 Master degree in Astronomy (maxima cum laude) at the Bologna University (Italy). Thesis: *X-ray spectral analysis of high X-ray-to-optical flux ratio sources in the Chandra Deep Fields*. Advisors: Prof. G. Palumbo, Dr A. Comastri.

Appointments and Fellowships

Jan 2016 – present Astrophysicist, Chandra X-ray Center Deputy Data Processing Manager
2013 – Jan 2016 Associate Research Scientist and *Debra Fine Fellow* at Yale University
2012 – 2013 Research Associate at Dartmouth College Physics and Astronomy Department
2007 – 2012 Post-doctoral fellow at the Harvard Smithsonian Center for Astrophysics
2007 Post-doctoral fellow at the Bologna University Astronomy Department (Italy)
2003 – 2006 Pre-doctoral fellow at the Istituto Nazionale di AstroFisica – Bologna (Italy)

Research Grants as Principal Investigator (Total: \$ 1.1M)

2019 Chandra NASA: “Hunting down the first heavily obscured QSO at $z > 6$ ” (\$13,000)
2019 NuSTAR NASA: “Deep NuSTAR Observations of the JWST-NEP time domain field” (\$160,938)
2016 Chandra NASA: “*Chandra* stacking analysis of CANDELS galaxies at $z > 1.5$ ” (\$51,500)
2015 NuSTAR NASA: “NuSTAR extragalactic surveys” (\$ 177,942)
2013 STScI NASA: “A dedicated search for Gravitational Wave recoiling supermassive black holes in COSMOS” (\$ 85,000)
2012 *Chandra* NASA X-ray Visionary project: “The *Chandra* COSMOS Legacy”: (\$ 400,000)
2011 NASA Astrophysical Data Analysis: “A Variable Energy, Redshifted, Iron Absorption Line in a recoiling Black Hole”: (\$ 124,000)
2010 STScI NASA: “A Runaway Black Hole in COSMOS” (\$ 13,701)
2010 Chandra NASA: “A Runaway Black Hole in COSMOS” (\$ 38,651)
2010 Chandra NASA: “The Dark Matter - AGN Connection and Weak Lensing” (\$ 51,281)

Publications

157 refereed publications; h index=48; 8,830 citations. (See list at end of this document.)

Awards

- 2016 NASA *NuSTAR* extragalactic surveys group achievement award
- 2016 One of three finalists for early career prize by Italian Scientist and Scholar North America Foundation
- 2012 AstroFI Marie Curie Reintegration fellowship (declined)
- 2010 “Blanceflor Boncompagni Ludovisi” Swedish Foundation scholarship (euro 9500)
- 2009 “Angelo Della Riccia” foundation research fellowship (euro 4000)
- 2006 “Marco Polo” pre-doctoral fellowship at the MPE institute (Munich, Germany)

Telescope Time Awarded as Principal Investigator

- 2019 NuSTAR: 585 ks, largest program ever awarded to observe the JWST-NEP time domain field
- 2019 *Chandra* X-ray Satellite: 20 ks of Director Discretionary time for "The obscured quasar J085051: Dust free gas or an eclipse?"
- 2019 *Chandra* X-ray Satellite: White Paper approved to observe 3850 SDSS quasars as *Chandra* Cool Targets; 110 ks awarded so far
- 2016 Keck LRIS: 1 observing night for “Constraining SMBH growth at $z>6$ ”
- 2014 Keck MOSFIRE: 6 observing nights for “Constraining SMBH growth in the high-redshift Universe”
- 2012 *Chandra* X-ray Visionary Project: 2.8 Ms of observing time for the COSMOS Legacy Survey
- 2010 *Chandra* X-ray Satellite: 80 ks of observing time with HRC for high resolution imaging of the candidate recoiling SMBH CID-42
- 2010 *Hubble Space Telescope*: 1 orbit of observation with STIS for the candidate recoiling SMBH CID-42
- 2010 *XMM-Newton*: 123 ks of observing time for high resolution X-ray spectroscopy of the candidate recoiling SMBH CID-42

Advising

- 2018 – present Co-supervisor of Dr. M. L. Jones, postdoctoral fellow at SAO
- 2016 – present Supervisor of Dr. F. Fornasini, postdoctoral fellow at SAO
- 2019 Advisor of SAO Latino Initiative Program fellow E. Donovan
- 2018 Advisor of SAO Latino Initiative Program fellow D. Grady
- 2017 – 2018 Supervisor of postdoctoral fellow Dr. S. Bisogni
- 2017 Advisor of SAO REU summer students G. Nagaraji and J. Singh
- 2016 – 2015 Advisor of SAO predoctoral fellow A. Masini (Bologna University)
- 2012 – 2015 Supervisor of S. Marchesi (Bologna University), predoctoral fellow at Dartmouth College, Yale University and SAO
- 2014 – 2017 PhD thesis committee member for H. Suh (Univ. of Hawaii)
- 2014 – 2015 Advisor of SAO predoctoral fellow H. Suh (Univ. of Hawaii)
- 2014 – 2015 Co-advisor of SAO predoctoral fellow E. Pons (Univ. of Leicester)
- 2013 – 2014 Co-advisor of SAO predoctoral fellow E. Kalfountzou (Univ. of Hertfordshire)

- 2013 Advisor of high-school student R. Feder from Great Neck High School
- 2011 – 2012 Advisor of SAO REU summer students B. Nevin and E. Cunningham
- 2010 Advisor of D. Robins, an Herchel Smith Harvard Undergraduate Research Fellow
- 2010 Advisor of E. Kruse, sophomore Harvard student
- 2008 – 2009 Co-advisor of SAO predoctoral fellow G. Lanzuisi (Univ. of Rome)

Popular Press

- July 2019 *Spektr-RG Charts the Skies* (SPIE)
- Aug. 2018 *Chandra Reveals Critical Evidence of Elusive Intermediate-Mass Black Holes* (*Chandra* press release)
- Nov. 2016 *Forming stars in the early universe* (Astronomy now)
- Jan. 2015 *CID-42: A Recoiling, Supermassive Black Hole?* (SciTechDaily)
- Jan. 2014 *Dead Star and Distant Black Holes Dazzle in X-Rays* (NuSTAR NASA press release)
- Oct. 2012 *Dartmouth Astronomer Probes the Early Universe* (by J. Blumberg, Dartmouth Now)
- June 2012 *Giant Black Hole Kicked Out of Home Galaxy* (*Chandra* press release; featured by NASA, Boston Globe, Science News, Space.com, and others worldwide)
- Sept. 2010 *Forward, into the past* by D. Robins (Harvard Gazette)
- June 2010 *CID-42: A Black Hole Slingshot* (*Chandra* press release; featured by NASA, Sky and Telescope, Science Magazine, SI science news website, APOD and others worldwide)
- Feb. 2010 Interview about Black Holes for The Astronomer’s Universe (Astrocast.tv)
- Jan. 2010 Invited talk at the press conference on “Black Holes” (215 AAS meeting)

Outreach Activities

- May 2015 Chat on Black Holes with Kimball Union Academy (NH) students
- April 2015 Chat on *NuSTAR* surveys with Dartmouth College (NH) undergrad class
- April 2014 Talk on Super Massive Black Holes for Phillips Andover Academy (MA) students
- Feb. 2014 Chat on *Chandra* surveys with Dartmouth College (NH) undergrad class
- Oct. 2013 Educational workshop organized by MIT Edgerton center: “There is a scientist in my classroom” (Cambridge, MA)
- May 2013 “Observatory Nights” at SAO “Black Hole Chaos” (Cambridge, MA)
- Nov. 2012 Chandra presenter at the educational event “EndeavourLA” (Los Angeles, CA)
- Aug. 2012 Chandra presenter at the educational event “NASA Space Fest” (New York)
- April 2012 Presenter at public event “Cambridge Science Festival” (Cambridge, MA)

Professional Activities

Reviewer

- 2019 SAO performance review committee
- 2017 PhD Thesis referee for the University of Hawaii (USA)
- 2017 NASA NuSTAR proposal reviewer
- 2017 PhD Thesis referee for the University of Napoli (IT)
- 2016 NASA STScI proposal reviewer
- 2016 Reviewer for NASA ADAP proposals
- 2016 – present Reviewer for *Science* journal
- 2013 & 2015 Reviewer for the National Science Foundation (NSF)

2009 – present Reviewer for the PASJ, ApJ, ApJL, ApJS and MNRAS journals (1 paper/3 months)

Leadership

2019– present Leader of NuSTAR NEP survey
2012 – present Leader of NuSTAR COSMOS and UDS surveys
2011 – present Leader of *Chandra* COSMOS Legacy survey

Membership

2019 – present Member of the LYNX Science Support Office
2019 – present co-I of the HEX-P mission proposal for 2020 decadal
2018 – present Great Observatory Science Analysis Group (SAG)
2018 – present Member and Secretary of International Virtual Observatory
2018 – present Member and Secretary of USVOA
2016 – present *Chandra* Source Catalog team member
2016 – present co-I of the STAR-X mid-ex mission proposal
2016 – 2018 co-I of the HEX-P mission proposal
2016 – present Member of the Lynx working groups
2015 – present Member of the "Sinfoni survey for Unveiling the Physics and Effect of Radiative feedback"
2014 – present Athena working group on “High-redshift Universe” member
2012 – present Member of the COSMOS collaboration steering committee
2011 – present NuSTAR extragalactic team member
2009 – 2012 Elected Member of the SAO council
2009 – 2010 Member of the SAO Postdoc Committee.
2007– present Member of American Astronomical Society
2005 – present Member of the COSMOS collaboration

Organizer

2019 Organizer of the special session on “The Chandra Source Catalog 2.0 and how to exploit/explore it” at American Astronomical Society, HEAD meeting 17 (Portola, USA)
2018 – 2019 SOC Member for "Supermassive Black Holes: Environment and Evolution" (Corfu, Greece)
2017 – 2018 SOC Member for COSPAR 2018 session on “AGN X-ray Surveys: Soft to Hard and Deep to Wide”
2017 – 2020 SOC Member for “Twenty years of *Chandra*” conference
2017 – 2018 Organizer of the 231 AAS special session on “Data driven discoveries in serendipitous X-ray catalogs”
2016 SOC Member for “*Chandra* science for the next decade” workshop (Cambridge, MA)
2012 LOC Member for the “Black Hole Feedback 2012 Workshop” (Hanover, NH)
2011 Editor of the Special Issue “Seeking for the Leading Actor on the Cosmic Stage: Galaxies versus Supermassive Black Holes” in *Advances in Astronomy Journal*
2010 – 2012 Organizer of the weekly journal discussion for the HEA division at SAO

Colloquia and Seminars (selected)

- November 2019 Invited Colloquium – IfA Hawaii (USA)
July 2019 Invited Colloquium – US Naval Observatory (DC, USA)
April 2019 Lunch Talk – CfA | Harvard & Smithsonian
April 2019 Invited Colloquium – Clemson University
Dec. 2018 Invited talk – NASA science director visit at CfA | Harvard & Smithsonian (USA)
October 2018 Invited Colloquium – Stanford University
March 2017 Invited Colloquium – Tufts University (USA)
Feb. 2017 Invited Colloquium – Brandeis University (USA)
Feb. 2017 Invited Colloquium – Yale Center for Astronomy and Astrophysics (USA)
Oct. 2015 Invited Colloquium – Amherst College (USA)
April 2015 Invited lunch talk – Boston University
Dec. 2014 Invited Colloquium – Yale Center for Astronomy and Astrophysics (USA)
Dec. 2013 Invited Seminar — INAF–Bologna Observatory (Italy)
June 2013 SAO Summer Colloquium — Extragalactic X-ray Surveys (USA)
May 2013 Invited talk — Stellar and Extragalactic Astronomy Lunch (NASA Goddard)
March 2013 Invited Colloquium — Zurich Institute of technology (Switzerland)
Nov. 2012 Invited lunch talk — IPAC Caltech (USA)
Oct. 2012 Invited talk – SI General Inspector meeting (USA)
Sept. 2012 Invited talk – SAO advisory board meeting (USA)
March 2012 Lunch talk – Dartmouth College (USA)
April 2011 Invited seminar – Yale Center for Astronomy and Astrophysics (USA)
July 2010 Invited seminar – The Cluster of Excellence Institute (Germany)
Feb. 2010 Invited seminar – Institute for Astronomy (IfA) in Hawaii (USA)
Jan. 2010 Invited press conference talk on “Black Holes” at the 215 AAS meeting (USA)
Dec. 2008 Invited seminar – Istituto di fisica dello Spazio Interplanetario (Italy)
June 2008 Invited seminar – INAF–Bologna Observatory (Italy)

Conferences (selected)

- June 2019 Invited Talk – Supermassive Black Holes: Environment and Evolution (Corfu, Greece)
March 2019 Invited Talk – The Chandra Source Catalog 2.0 and how to exploit/explore it at HEAD meeting 17th (Monterey, USA)
Aug. 2018 Invited Talk – COSPAR 2018 su "AGN X-ray Surveys: Soft to Hard and Deep to Wide (Pasadena, USA)
July 2018 Invited Talk – The early growth of supermassive black holes” workshop (Sesto, Italy)
Aug. 2017 Invited Talk – From Chandra to Lynx: Taking the Sharpest X-ray Vision Fainter and Farther (USA)
Nov. 2016 Invited Talk – NuSTAR science meeting (USA)
April 2016 Invited Talk – 15th HEAD meeting, NuSTAR townhall (USA)
Oct. 2015 Contributed talk – X-Ray Vision Workshop (USA)
Sept. 2015 Invited talk – Demographics and environment of AGN from multi-wavelength surveys (Greece)
Aug. 2015 Invited talk – IAU focus meeting on Cosmological X-ray Surveys (USA)
Nov. 2014 Invited talk — 15 Years of science with *Chandra* (USA)

March 2014 Invited talk — The Multi-Wavelength, Multi-Epoch Heritage of Stripe 82 (USA)
 Jan 2014 Invited talk — 223 AAS meeting special session on VLA all sky survey (USA)
 Jan 2014 Invited talk — 223 AAS meeting special session on NuSTAR (USA)
 Jan 2014 Invited press conference on Cosmic Extremes at the 222 AAS meeting (USA)
 June 2013 Invited talk — Galaxies vs Black Holes workshop (Italy)
 May 2013 Contributed talk — COSMOS Team meeting (Japan)
 March 2013 Contributed talk — NuSTAR science meeting (USA)
 Sept. 2012 Contributed talk – “Half a century of X-ray astronomy” (Greece)
 August 2012 Contributed talk – “Black Hole Feedback 2012” workshop (USA)
 July 2012 Contributed talk – XXL team meeting (France)
 June 2012 Contributed talk – COSMOS team meeting (USA)
 Nov. 2011 Contributed talk – “High Energy Views of Galaxies and their Nuclei” (Mexico)
 May 2011 Invited talk – “12 years of Science with *Chandra*” 218 AAS meeting (USA)
 June 2010 Contributed talk – “Black Hole Workshop” (Germany)
 Jan. 2010 Invited press conference talk on “Black Holes” at the 215 AAS meeting (USA)
 June 2009 Contributed talk – COSMOS team meeting (Japan)
 June 2008 Contributed talk – COSMOS meeting (France)
 May 2008 Contributed talk – “8th Italian Conference on AGNs” (Italy)
 July 2007 Contributed talk – “X-ray Surveys: Evolution of Accretion, Star-Formation and the Large Scale Structure” (Greece)
 Sept. 2006 Contributed talk – COSMOS team meeting (Germany)
 May 2006 Contributed talk – 7th Italian Conference on AGNs (Italy)
 Sept. 2005 Contributed talk – “The X-ray Universe 2005” conference (Spain)
 May 2004 Contributed talk – 6th Italian Conference on AGNs (Italy)
 2008 – 2016 Contributed talks at AAS meetings

Full list of Refereed Papers

(in order from most recent)

157. Fornasini, F. M., Kriek, M., Sanders, R. L., Shivaei, I., **Civano, F.** et al. 2019, *The MOSDEF Survey: The Metallicity Dependence of X-ray Binary Populations at $z \sim 2$* , ApJ in press, arXiv:1909.08635
156. Vito, F., Brandt, W. N., Bauer, F.E., Calura, F., Gilli, R., Luo, B., Shemmer, O., Vignali, C., Zamorani, G., Brusa, M., **Civano, F.**, Comastri, A., Nanni, R., 2019, *The X-ray properties of $z > 6$ quasars: no evident evolution of accretion physics in the first Gyr of the Universe*, ApJ in press, arXiv:1908.09849
155. Masini, A., Comastri, A., Hickox, R. C., Koss, M., **Civano, F.**, Brightman, M., Brusa, M., & Lanzuisi, G. 2019, *Measuring the Obscuring Column of a Disk Megamaser AGN in a Nearby Merger*, ApJ, 882, 83
154. Vito, F., et al. 2019, *Discovery of the first heavily obscured QSO candidate at $z \sim 6$ in a close galaxy pair*, A&A, 628, L6
153. Mezcuá, M., Suh, H., & **Civano, F.**, 2019, *Radio jets from AGNs in dwarf galaxies in the COSMOS survey: mechanical feedback out to redshift $z \sim 3.4$* , MNRAS, 488, 685
152. Riguccini, L. A., et al. 2019, *The Composite Nature of Dust-obscured Galaxies (DOGs) at $z \sim 2-3$ in the COSMOS Field. II. The AGN Fraction*, AJ, 157, 233
151. Lanzuisi, G., et al. 2019, *NuSTAR Measurement of Coronal Temperature in Two Luminous, High-redshift Quasars*, ApJL, 875, L20
150. Gozaliasl, G., et al. 2019, *Chandra centres for COSMOS X-ray galaxy groups: differences in stellar properties between central dominant and offset brightest group galaxies*, MNRAS, 483, 3545
149. Suh, H., **Civano, F.**, Hasinger, G., Lusso, E., Marchesi, S., Schulze, A., Onodera, M., Rosario, D. J., & Sanders, D. B. 2019, *Multi-wavelength Properties of Type 1 and Type 2 AGN Host Galaxies in the Chandra-COSMOS Legacy Survey*, ApJ, 872, 168
148. Ananna, T. T., Treister, E., Urry, C. M., Ricci, C., Kirkpatrick, A., LaMassa, S., Buchner, J., **Civano, F.**, Tremmel, M., & Marchesi, S. 2019, *The Accretion History of AGNs. I. Supermassive Black Hole Population Synthesis Model*, ApJ, 871, 240
147. Yan, W., et al. 2019, *NuSTAR and Keck Observations of Heavily Obscured Quasars Selected by WISE*, ApJ, 870, 33
146. Blecha, L., Bricken, W., Burke-Spolaor, S., **Civano, F.**, Comerford, J., Darling, J., Lazio, T. J. W., & Maccarone, T. J. 2018, *Offset Active Galactic Nuclei*, ASPC, 517, 763
145. Schulze, A., Silverman, J. D., Kashino, D., Akiyama, M., Schramm, M., Sanders, D., Kartaltepe, J., Daddi, E., Rodighiero, G., Renzini, A., Arimoto, N., Nagao, T., Puglisi, A., Trakhtenbrot, B., **Civano, F.**, & Suh, H. 2018, *An FMOS Survey of Moderate-luminosity, Broad-line AGNs in COSMOS, SXDS, and E-CDF-S*, ApJS, 239, 22

144. Boutsia, K., Grazian, A., Giallongo, E., Fiore, F., & **Civano, F.**, 2018, *A High Space Density of L^* Active Galactic Nuclei at $z \sim 4$ in the COSMOS Field*, ApJ,869,20
143. Masini, A., Comastri, A., **Civano, F.**, Hickox, R. C., Carroll, C. M., Suh, H., Brandt, W. N., DiPompeo, M. A., Harrison, F. A., & Stern, D.2018, *The NuSTAR Extragalactic Surveys: Unveiling Rare, Buried AGNs and Detecting the Contributors to the Peak of the Cosmic X-Ray Background*, ApJ,867,162
142. Circosta, C., et al .2018, *SUPER. I. Toward an unbiased study of ionized outflows in $z \sim 2$ active galactic nuclei: survey overview and sample characterization*, A&A,620,A82
141. Lanzuisi, G., **Civano, F.**, Marchesi, S., Comastri, A., Brusa, M., Gilli, R., Vignali, C., Zamorani, G., Brightman, M., Griffiths, R. E., & Koekemoer, A. M.2018, *The Chandra COSMOS Legacy Survey: Compton thick AGN at high redshift*, MNRAS,480,2578
140. Fornasini, F. M., **Civano, F.**, Fabbiano, G., Elvis, M., Marchesi, S., Miyaji, T., & Zezas, A.2018, *Low-luminosity AGN and X-Ray Binary Populations in COSMOS Star-forming Galaxies*, ApJ,865,43
139. Mezcua, M., **Civano, F.**, Marchesi, S., Suh, H., Fabbiano, G., & Volonteri, M.2018, *Intermediate-mass black holes in dwarf galaxies out to redshift ~ 2.4 in the Chandra COSMOS-Legacy Survey*, MNRAS,478,2576
138. Kocevski, D. D., et al. 2018, *X-UDS: The Chandra Legacy Survey of the UKIDSS Ultra Deep Survey Field*, ApJS,236,48
137. Grazian, A., et al. 2018, *The contribution of faint AGNs to the ionizing background at $z \sim 4$* , A&A,613,A44
136. Masini, A., **Civano, F.**, et al. 2018, *The NuSTAR Extragalactic Surveys: Source Catalog and the Compton-thick Fraction in the UDS Field*, ApJS,235,17
135. Cappelluti, N., Bulbul, E., Foster, A., Natarajan, P., Urry, M. C., Bautz, M. W., **Civano, F.**, Miller, E., & Smith, R. K.2018, *Searching for the 3.5 keV Line in the Deep Fields with Chandra: The 10 Ms Observations*, ApJ,854,179
134. Zappacosta, L., Comastri, A., **Civano, F.**, et al. 2018, *The NuSTAR Extragalactic Surveys: X-Ray Spectroscopic Analysis of the Bright Hard-band Selected Sample*, ApJ,854,33
133. Donley, J. L., et al.2018, *Evidence for Merger-driven Growth in Luminous, High- z , Obscured AGNs in the CANDELS/COSMOS Field*, ApJ,853,63
132. Chang, Y.-Y., Le Floc'h, E., Juneau, S., da Cunha, E., Salvato, M., **Civano, F.**, Marchesi, S., Ilbert, O., Toba, Y., Lim, C.-F., Tang, J.-J., Wang, W.-H., Ferraro, N., Urry, M. C., Griffiths, R. E., & Kartaltepe, J. S.2017, *Infrared Selection of Obscured Active Galactic Nuclei in the COSMOS Field*, ApJS,233,19
131. Ananna, T. T., et al. 2017, *AGN Populations in Large-volume X-Ray Surveys: Photometric Redshifts and Population Types Found in the Stripe 82X Survey*, ApJ,850,66

130. Del Moro, A., Alexander, D. M., Aird, J. A., Bauer, F. E., **Civano, F.**, Mullaney, J. R., et al. 2017, *The NuSTAR Extragalactic Survey: Average Broadband X-Ray Spectral Properties of the NuSTAR-detected AGNs*, ApJ, 849, 57
129. Brisbin, D., et al. 2017, *An ALMA survey of submillimeter galaxies in the COSMOS field: Multiwavelength counterparts and redshift distribution*, A&A, 608, A15
128. LaMassa, S. M., et al. 2017, *The Hunt for Red Quasars: Luminous Obscured Black Hole Growth Unveiled in the Stripe 82 X-Ray Survey*, ApJ, 847, 100
127. Kocevski, D. D., et al. 2017, *CANDELS: Elevated Black Hole Growth in the Progenitors of Compact Quiescent Galaxies at $z \sim 2$* , ApJ, 846, 112
126. Baronchelli, L., Koss, M., Schawinski, K., Cardamone, C., **Civano, F.**, Comastri, A., Elvis, M., Lanzuisi, G., Marchesi, S., Ricci, C., Salvato, M., Trakhtenbrot, B., & Treister, E. 2017, *Inferring Compton-thick AGN candidates at $z > 2$ with Chandra using the >8 keV rest-frame spectral curvature*, MNRAS, 471, 364
125. Suh, H., **Civano, F.**, et al. 2017, *Type 2 AGN Host Galaxies in the Chandra-COSMOS Legacy Survey: No Evidence of AGN-driven Quenching*, ApJ, 841, 102
124. Miettinen, O., et al. 2017, *An ALMA survey of submillimetre galaxies in the COSMOS field: The extent of the radio-emitting region revealed by 3 GHz imaging with the Very Large Array*, A&A, 602, A54
123. Novak, M., et al. 2017, *The VLA-COSMOS 3 GHz Large Project: Cosmic star formation history since $z \sim 5$* , A&A, 602, A5
122. Delhaize, J., et al. 2017, *The VLA-COSMOS 3 GHz Large Project: The infrared-radio correlation of star-forming galaxies and AGN to $z \sim 6$* , A&A, 602, A4
121. Delvecchio, I., et al. 2017, *The VLA-COSMOS 3 GHz Large Project: AGN and host-galaxy properties out to $z \sim 6$* , A&A, 602, A3
120. Smolčić, V., et al. 2017, *The VLA-COSMOS 3 GHz Large Project: Multiwavelength counterparts and the composition of the faint radio population*, A&A, 602, A2
119. Chang, Y.-Y., Le Floch, E., Juneau, S., da Cunha, E., Salvato, M., **Civano, F.**, Marchesi, S., Gabor, J. M., Ilbert, O., Laigle, C., McCracken, H. J., Hsieh, B.-C., & Capak, P. 2017, *Obscured active galactic nuclei triggered in compact star-forming galaxies*, MNRAS, 466, L103
118. Cappelluti, N., et al. 2017, *The Chandra COSMOS Legacy Survey: Energy Spectrum of the Cosmic X-Ray Background and Constraints on Undetected Populations*, ApJ, 837, 19
117. Ricci, F., Marchesi, S., Shankar, F., La Franca, F., & **Civano, F.**, 2017, *Constraining the UV emissivity of AGN throughout cosmic time via X-ray surveys*, MNRAS, 465, 1915
116. Lansbury, G. B., et al. 2017, *The NuSTAR Serendipitous Survey: The 40-month Catalog and the Properties of the Distant High-energy X-Ray Source Population*, ApJ, 836, 99

115. Kashino, D., et al. 2017, *The FMOS-COSMOS Survey of Star-forming Galaxies at $z \sim 1.6$. IV. Excitation State and Chemical Enrichment of the Interstellar Medium*, ApJ, 835, 88
114. Smolčić, V., et al. 2017, *(Sub)millimetre interferometric imaging of a sample of COSMOS/AzTEC submillimetre galaxies. III. Environments*, A&A, 597, A4
113. Schinnerer, E., Groves, B., Sargent, M. T., Karim, A., Oesch, P. A., Magnelli, B., LeFevre, O., Tasca, L., **Civano, F.**, Cassata, P., & Smolčić, V. 2016, *Gas Fraction and Depletion Time of Massive Star-forming Galaxies at $z \sim 3.2$: No Change in Global Star Formation Process out to $z = 3$* , ApJ, 833, 112
112. Allevato, V., **Civano, F.**, et al. 2016, *The Chandra COSMOS Legacy Survey: Clustering of X-Ray-selected AGNs at $2.9 < z < 5.5$ Using Photometric Redshift Probability Distribution Functions*, ApJ, 832, 70
111. Harrison, F. A., Aird, J., **Civano, F.**, et al. 2016, *The NuSTAR Extragalactic Surveys: The Number Counts of Active Galactic Nuclei and the Resolved Fraction of the Cosmic X-Ray Background*, ApJ, 831, 185
110. Marchesi, S., Lanzuisi, G., **Civano, F.**, et al. 2016, *The Chandra COSMOS-Legacy Survey: Source X-Ray Spectral Properties*, ApJ, 830, 100
109. Marchesi, S., **Civano, F.**, et al. 2016, *The Chandra COSMOS-Legacy Survey: The $z > 3$ Sample*, ApJ, 827, 150
108. Trakhtenbrot, B., **Civano, F.**, Urry, C. M., Schawinski, K., Marchesi, S., Elvis, M., Rosario, D. J., Suh, H., Mejia-Restrepo, J. E., Simmons, B. D., Faisst, A. L., & Onodera, M. 2016, *Faint COSMOS AGNs at $z \sim 3.3$. I. Black Hole Properties and Constraints on Early Black Hole Growth*, ApJ, 825, 4
107. LaMassa, S. M., et al. 2016, *Erratum: Finding rare AGN: XMM-Newton and Chandra observations of SDSS Stripe 82*, MNRAS, 458, 3820
106. Laigle, C., et al. 2016, *The COSMOS2015 Catalog: Exploring the $1 < z < 6$ Universe with Half a Million Galaxies*, ApJS, 224, 24
105. Pons, E., Elvis, M., **Civano, F.**, & Watson, M. G. 2016, *Narrow-line X-Ray-selected Galaxies in the Chandra-COSMOS Field. II. Optically Elusive X-Ray AGNs*, ApJ, 824, 51
104. Paggi, A., Fabbiano, G., **Civano, F.**, Pellegrini, S., Elvis, M., & Kim, D.-W. 2016, *Hidden Active Galactic Nuclei in Early-type Galaxies*, ApJ, 823, 112
103. Pons, E., Elvis, M., **Civano, F.**, & Watson, M. G. 2016, *Narrow-line X-Ray-selected Galaxies in the Chandra-COSMOS Field. I. Optical Spectroscopic Catalog*, ApJ, 821, 130
102. LaMassa, S. M., et al. 2016, *Peering Through the Dust: NuSTAR Observations of Two FIRST-2MASS Red Quasars*, ApJ, 820, 70
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