

## **ALLEGATO B**

UNIVERSITÀ DEGLI STUDI DI MILANO

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## **Alberto Masini** **CURRICULUM VITAE**

**INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)**

<b>COGNOME</b>	MASINI
<b>NOME</b>	ALBERTO
<b>DATA DI NASCITA</b>	31/12/1990

**INSERIRE IL PROPRIO CURRICULUM**  
**(non eccedente le 30 pagine)**

Data

14/03/2021

Luogo

Casciago (VA)

# ALBERTO MASINI

Scuola Internazionale Superiore di Studi Avanzati (SISSA)  
Via Bonomea 265, Trieste, 34136, Italy  
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## RESEARCH INTERESTS

Dr. Masini's main scientific interests focus on the physics and cosmological evolution of Active Galactic Nuclei. In particular, he has acquired much expertise in designing, leading and performing deep X-ray Extragalactic Surveys with the most important X-ray telescopes. Dr. Masini is member of the *NuSTAR* collaboration since 2014 and of two *Athena* Science Working Groups since 2017.

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## RESEARCH EXPERIENCE

<b>Post-doctoral Researcher</b> SISSA, Trieste, Italy Working with Prof. Annalisa Celotti	January 2020 – present
<b>Research Associate</b> Dartmouth College, Hanover NH, USA Working with Prof. Ryan Hickox	December 2017 – December 2019
<b>Visiting Researcher</b> Harvard & Smithsonian   Center for Astrophysics, Cambridge MA, USA Working with Dr. Francesca Civano	August 2016 – December 2016
<b>Pre-doctoral Fellow</b> Harvard & Smithsonian   Center for Astrophysics, Cambridge MA, USA Working with Dr. Francesca Civano	April 2016

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## TEACHING EXPERIENCE

<b>AGN Evolution and Cosmic Backgrounds (4 hrs)</b> To 1st year Ph.D. students SISSA, Trieste, Italy	December 2020
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## EDUCATION

<b>Ph.D. in Astrophysics</b> Università di Bologna in collaboration with INAF – OAS, Bologna, Italy Supervised by Dr. Andrea Comastri Thesis title: Obscured and Compton Thick AGN in <i>NuSTAR</i> Hard X-ray Surveys	November 2014 – April 2018
<b>M.Sc. in Astrophysics cum laude and honor mention</b> Università degli Studi di Torino Supervised by Prof. Antonaldo Diaferio and Prof. Luisa Ostorero Thesis title: Structure Formation in the Quasi-Steady State Cosmology	October 2012 – July 2014
<b>B.Sc. in Physics</b> Università degli Studi di Torino Supervised by Prof. Attilio Ferrari Thesis title: Discovery of $\gamma$ -ray flares from the Crab Nebula by AGILE and Fermi/LAT	October 2009 – July 2012

## HONORS AND AWARDS

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<b>SISSA Post-doctoral Grant</b> Scuola Internazionale Superiore di Studi Avanzati (SISSA) (EUR 49k)	January 2020
<b>AAS International Travel Grant</b> American Astronomical Society (\$2k)	June 2019
<b>Postdoctoral Professional Development Award</b> Dartmouth College (\$750)	October 2018
<b>AAS International Travel Grant</b> American Astronomical Society (\$2k)	October 2018
<b>AAS International Travel Grant</b> American Astronomical Society (\$2k)	July 2018
<b>IAU International Travel Grant</b> International Astronomical Union (EUR 500)	September 2017
<b>Post-doctoral Position, declined</b> Caltech, Pasadena CA, USA	April 2017
<b>Post-doctoral Position, declined</b> Fudan University, Shanghai, China	Jan 2017
<b>Best M.Sc. Thesis in Physics for the a.y. 2013–2014</b> Università degli Studi di Torino, Torino, Italy	May 2016
<b>Ph.D. Scholarship</b> Università di Bologna, Bologna, Italy (full Ph.D. program support)	October 2014
<b>Summa cum laude and honor mention, M.Sc. in Physics</b> Università degli Studi di Torino, Torino, Italy	July 2014

## ACCEPTED PROPOSALS

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**XMM-Newton**  
AO20, Co-I, 60ks  
**NuSTAR**  
AO3, PI, 50 ks  
AO7, Co-I, 100 ks

## CONFERENCES AND PRESENTATIONS

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<b>Invited Seminar</b> Astronomical Institute of the Czech Academy of Sciences, Prague, Czech Republic	November 2020
<b>Contributed Talk</b> 20 Years of Chandra Science Symposium, Cambridge MA, USA	December 2019
<b>Invited Talk</b> Accretion History of AGN Workshop, Miami FL, USA	October 2019
<b>Contributed Talk</b> Supermassive Black Holes: Environment and Evolution, Corfu, Greece	June 2019
<b>Contributed Talk</b>	May 2019

New England Regional Quasar and AGN Meeting, Cambridge MA, USA

<b>Poster</b> AAS HEAD meeting, Monterey CA, USA	March 2019
<b>Poster</b> AGN13 conference 2018, Milano, Italy	October 2018
<b>Poster</b> Durham-Dartmouth meeting 2018, Durham, UK	July 2018
<b>Contributed Talk</b> 42nd COSPAR Scientific Assembly, Pasadena CA, USA	July 2018
<b>Contributed Talk</b> New England Regional Quasar and AGN Meeting, New Haven CT, USA	April 2018
<b>Invited Talk</b> Young AGN meeting 2017, Aragón, Spain	October 2017
<b>Poster</b> IAU meeting on astrophysical masers, Cagliari, Italy	September 2017
<b>Informal Seminar</b> MIT Kavli Institute for Astrophysics and Space Research, Boston MA, USA	December 2016
<b>Poster</b> NuSTAR meeting 2016, Pasadena CA, USA	November 2016
<b>Informal Seminar</b> Astronomy Department, Yale University, New Haven CT, USA	October 2016
<b>Poster</b> Active Galactic Nuclei: what's in a name?, Garching, Germany	June 2016
<b>Informal Seminar</b> Harvard & Smithsonian   Center for Astrophysics, Cambridge MA, USA	April 2016
<b>Contributed Talk</b> The X-ray view of Black Hole activity in the local Universe, Zurich, Switzerland	February 2016
<b>Contributed Talk</b> Demographics and Environment of AGN from Multi-Wavelength Surveys, Chania, Greece	September 2015
<b>Contributed Talk</b> TORUS2015 meeting, Winchester, UK	September 2015
<hr/> SCIENTIFIC OUTREACH <hr/>	
<b>Infini.To Planetarium, Torino, Italy</b> Scientific Collaborator – guided tours at the museum and in the digital planetarium	March 2013 – June 2014
<hr/> TELESCOPE TIME ALLOCATION COMMITTEES AND JOURNALS REFEREE <hr/>	
<b>Panelist</b> for the NASA's <i>NuSTAR</i> and <i>Swift</i> Proposals Review Panels	
<b>Referee</b> for <i>The Astrophysical Journal</i> , <i>Astronomy &amp; Astrophysics</i> , <i>Monthly Notices of the Royal Astronomical Society</i>	
<hr/> SKILLS <hr/>	
<b>Languages:</b> Italian (Native), English (B2)	
<b>Programming:</b> Python (AstroPy, NumPy, SciPy, Matplotlib, Pandas), Sherpa, Mathematica	
<b>X-ray data analysis:</b> XSPEC, HEASoft, CIAO	
<b>Observing experience:</b> 4 nights at the MDM Hiltner 4.3m telescope in Tucson AZ, USA	

1. **A. Masini**, A. Celotti, P. Grandi, and other 2 authors. A new distant Giant Radio Galaxy in the Boötes field serendipitously detected by Chandra. *arXiv e-prints*, page arXiv:2103.06280, March 2021
2. C. M. Carroll, R. C. Hickox, **A. Masini**, and other 5 authors. A Large Population of Luminous Active Galactic Nuclei Lacking X-ray Detections: Evidence for Heavy Obscuration? *The Astrophysical Journal*, 908(1):185, February 2021
3. M. Baloković, F. A. Harrison, G. Madejski, and other 16 authors (including **A. Masini**). NuSTAR Survey of Obscured Swift/BAT-selected Active Galactic Nuclei. II. Median High-energy Cutoff in Seyfert II Hard X-Ray Spectra. *The Astrophysical Journal*, 905(1):41, December 2020
4. **A. Masini**, R. C. Hickox, C. M. Carroll, and other 30 authors. The Chandra Deep Wide-field Survey: A New Chandra Legacy Survey in the Boötes Field. I. X-Ray Point Source Catalog, Number Counts, and Multiwavelength Counterparts. *The Astrophysical Journal Supplement Series*, 251(1):2, November 2020
5. A. Annuar, D. M. Alexander, P. Gandhi, and other 20 authors (including **A. Masini**). NuSTAR observations of four nearby X-ray faint AGNs: low luminosity or heavy obscuration? *Monthly Notices of the Royal Astronomical Society*, 497(1):229–245, June 2020
6. **A. Masini**, A. Comastri, R. C. Hickox, and other 5 authors. Measuring the Obscuring Column of a Disk Megamaser AGN in a Nearby Merger. *The Astrophysical Journal*, 882(2):83, September 2019
7. L. Lanz, R. C. Hickox, M. Baloković, and other 13 authors (including **A. Masini**). Investigating the Covering Fraction Distribution of Swift/BAT AGNs with X-Ray and Infrared Observations. *The Astrophysical Journal*, 870(1):26, January 2019
8. **A. Masini**, A. Comastri, F. Civano, and other 7 authors. The NuSTAR Extragalactic Surveys: Unveiling Rare, Buried AGNs and Detecting the Contributors to the Peak of the Cosmic X-Ray Background. *The Astrophysical Journal*, 867(2):162, November 2018
9. **A. Masini**, F. Civano, A. Comastri, and other 19 authors. The NuSTAR Extragalactic Surveys: Source Catalog and the Compton-thick Fraction in the UDS Field. *The Astrophysical Journal Supplement Series*, 235(1):17, March 2018
10. L. Zappacosta, A. Comastri, F. Civano, and other 23 authors (including **A. Masini**). The NuSTAR Extragalactic Surveys: X-Ray Spectroscopic Analysis of the Bright Hard-band Selected Sample. *The Astrophysical Journal*, 854(1):33, February 2018
11. P. Kosec, M. Brightman, D. Stern, and other 13 authors (including **A. Masini**). Investigating the Evolution of the Dual AGN System ESO 509-IG066. *The Astrophysical Journal*, 850(2):168, December 2017
12. G. B. Lansbury, D. M. Alexander, J. Aird, and other 27 authors (including **A. Masini**). The NuSTAR Serendipitous Survey: Hunting for the Most Extreme Obscured AGN at  $\gtrsim 10$  keV. *The Astrophysical Journal*, 846(1):20, September 2017
13. M. Brightman, M. Baloković, D. R. Ballantyne, and other 16 authors (including **A. Masini**). X-Ray Bolometric Corrections for Compton-thick Active Galactic Nuclei. *The Astrophysical Journal*, 844(1):10, July 2017
14. P. Gandhi, A. Annuar, G. B. Lansbury, and other 26 authors (including **A. Masini**). The weak Fe fluorescence line and long-term X-ray evolution of the Compton-thick active galactic nucleus in NGC 7674. *Monthly Notices of the Royal Astronomical Society*, 467(4):4606–4621, June 2017

15. **A. Masini**, A. Comastri, S. Puccetti, and other 18 authors. The Phoenix galaxy as seen by NuSTAR. *Astronomy & Astrophysics*, 597:A100, January 2017
16. P. G. Boorman, P. Gandhi, D. M. Alexander, and other 19 authors (including **A. Masini**). IC 3639—a New Bona Fide Compton-Thick AGN Unveiled by NuSTAR. *The Astrophysical Journal*, 833(2):245, December 2016
17. M. Brightman, **A. Masini**, D. R. Ballantyne, and other 10 authors. A Growth-rate Indicator for Compton-thick Active Galactic Nuclei. *The Astrophysical Journal*, 826(1):93, July 2016
18. M. J. Koss, A. Glidden, M. Baloković, and other 19 authors (including **A. Masini**). NuSTAR Resolves the First Dual AGN above 10 keV in SWIFT J2028.5+2543. *The Astrophysical Journal Letters*, 824(1):L4, June 2016
19. G. Lanzuisi, M. Perna, A. Comastri, and other 26 authors (including **A. Masini**). NuSTAR reveals the extreme properties of the super-Eddington accreting supermassive black hole in PG 1247+267. *Astronomy & Astrophysics*, 590:A77, May 2016
20. **A. Masini**, A. Comastri, M. Baloković, and other 18 authors. NuSTAR observations of water megamaser AGN. *Astronomy & Astrophysics*, 589:A59, May 2016

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## REFERENCES

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Last updated: March 14, 2021