



Gabriele Matzeu

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ABOUT MYSELF

For bio and more info visit: <https://gabrielematzeu.com/>

WORK EXPERIENCE

01/09/2023 – CURRENT Madrid, Spain

XMM-NEWTON OPERATION SCIENTIST QUASAR SCIENCE RESOURCES S.L. FOR EUROPEAN SPACE AGENCY

31/08/2020 – 31/08/2023 Bologna

RESEARCH FELLOW UNIVERSITY OF BOLOGNA

I am leading the scientific working group of the international [SUBWAYS](#) collaboration comprised of 50 scientists from 10 countries around the world. I am responsible for the XMM-Newton data reduction, analysis and interpretation of a sample of 23 AGNs some of which are hosting an ultra-fast disk wind (UFO)

Business or Sector Professional, scientific and technical activities

31/10/2017 – 30/08/2020 Madrid, Spain

ESA RESEARCH FELLOW EUROPEAN SPACE AGENCY/EUROPEAN SPACE ASTRONOMY CENTRE

XMM-Newton Operation Centre researcher, independent research on supermassive black holes, ultra fast winds as well as XMM-Newton, NuSTAR, Swift-Gehrels, Hubble Space Telescope data reduction, data analysis. Development of theoretical models using ESA clusters

30/04/2017 – 30/10/2017 Merate, Italy

RESEARCH ASSOCIATE ISTITUTO NAZIONALE DI ASTROFISICA, OSSERVATORIO ASTRONOMICO DI BRERA MERATE

XMM-Newton, NuSTAR and Swift-Gehrels Data reduction, data analysis and interpretation of Type 2 AGN and ultra fast winds

EDUCATION AND TRAINING

01/01/2013 – 30/09/2017 Keele, United Kingdom

PHD IN ASTROPHYSICS University of Keele

Address School of chemical and physical sciences, Keele road, ST5 5BG, Keele, United Kingdom |

Website <https://www.keele.ac.uk/scps/research/physicsandastrophysicsresearch/>

30/09/2008 – 30/12/2011 Milton Keynes, United Kingdom

BACHELOR OF SCIENCE DEGREE IN PHYSICAL SCIENCES The Open University

Address Kents Hill, Robert Hooke Building, MK7 6AA, Milton Keynes, United Kingdom |

Website <https://www.open.ac.uk/science/physical-science/>

Address Kents Hill, Robert Hooke Building, MK7 6AA, Milton Keynes, United Kingdom |

Website <https://www.open.ac.uk/courses/maths/degrees/bsc-mathematics-q31>

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN** | **ENGLISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
SPANISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

● **DIGITAL SKILLS**

Programming languages (Python and R program) | Latex: advanced user | Academic skills of writing and speaking | Analytical skills and ability to solve problems | XSPEC | Python (matplotlib, pandas, numpy, etc) | Microsoft Office: proficient user of Word, Excel and Powerpoint | Excellent skills in presentation softwares (Microsoft PowerPoint and Keynote)

● **PUBLICATIONS**

[For full publication list visit:](#)

● **CONFERENCES & SEMINARS**

07/07/2024 – 12/07/2024 Sexten (Dolomites), ITALY
FROM THE DOLOMITES TO THE EVENT HORIZON: SLEDGING DOWN THE BLACK HOLE POTENTIAL WELL (INVITED)

Link <https://www.sexten-cfa.eu/event/dolomites-2024/>

12/05/2024 – 16/05/2024 La Granja (Segovia), Spain
16th International Astronomical Consortium for High-Energy Calibration - IACHEC meeting

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Link <https://iachec.org/2024-parador-de-la-granja-spain/>

23/01/2024 – 25/01/2024 Arajues (Madrid)
ESA congress Science Operation Scientific Workshop SSW#16

11/06/2023 – 16/06/2023 EASTON MD
AGN Winds on the Chesapeake

Link <https://physics.catholic.edu/faculty-and-research/iacs/agn-winds-conf/index.html#:~:text=Welcome%2C,conference in Jekyll Island%2C Georgia.>

02/02/2023 National Observatory of Athens
Seminar Ultra Fast outflows beyond the local Universe – SUBWAYS

(INVITED)

07/10/2022 Institut de Recherche en Astrophysique et Planétologie (IRAP)/CNRS

Seminar, Institut de Recherche en Astrophysique et Planétologie (IRAP)/CNRS

(INVITED)

07/2022 Sesto, Italy

FROM THE DOLOMITES TO THE EVENT HORIZON: SLEDGING DOWN THE BLACK HOLE POTENTIAL WELL

(INVITED)

05/2022 Florence, Italy

Active Galactic Nuclei XIV: The Renaissance of Black Holes and Galaxies

05/2022 Monte Porzio Catone, Rome, Italy

1st Mondragone Frontiers of Astronomy Series: LATEST ADVANCES IN X-RAY SPECTROSCOPY AND POLARIMETRY

02/2022 Prague, Czech Republic

X-ray winter fitting school: XSF22

(INVITED)

09/2021 Durham University, UK

Black Hole Accretion Disk Wind Conference

11/2019 Aranjuez, Spain

ESA congress Science Operation Scientific Workshop SSW#12

09/2019 Bologna, Italy

X-ray astronomy 2019

07/2019 Sesto, Italy

FROM THE DOLOMITES TO THE EVENT HORIZON: SLEDGING DOWN THE BLACK HOLE POTENTIAL WELL

(INVITED)

11/2018 Akersloot, Holland

ESA congress Science Operation Scientific Workshop SSW#11

10/2018 Milan, Italy

Active Galactic Nuclei Meeting 13

10/2018 Castiada, Cagliari, Italy

Super Eddington Meeting: Breaking the limits 2018

06/2018 ESAC, Madrid, Spain

XMM-Newton Time Domain Workshop: a High Energy View

05/2018 ESAC, Madrid, Spain

ESA Science Workshop: "The quest for binary SMBH: latest obs. campaign and results"

(INVITED)

08/2017 Milan, Italy

Invited Seminar, INAF-Osservatorio Astronomico di Brera

06/2017 Rome, Italy

XMM-Newton: The X-ray Universe 2017 Symposium

11/2016 ESAC, Madrid, Spain

ESA Fellowship jamboree

(INVITED)

10/2015 Leicester University, UK

New Results in X-ray Astronomy

06/2015 ESAC, Madrid, Spain

XMM-Newton Science Workshop, The extremes of black hole accretion

05/2015 Keele, UK

Invited Seminar, Keele University

09/2014 University of Cambridge, UK

New Results in X-ray Astronomy

09/2014 Trieste, Italy

Active Galactic Nuclei Meeting 11

07/2014 Durham University, UK

Meeting Workshop "Black Hole Winds"

(INVITED)

09/2013 Santorini, Greece

Explosive Transient: Lighthouses of the Universe

● **ORGANISATIONAL SKILLS**

SOC for ESA Science Operation Scientific Workshop SSW#12, Aranjuez, Spain

I was part of the Science Organizing Committee of an international European Space Agency congress in Aranjuez, Spain.

● **AWARDED OBSERVATIONAL PROPOSALS**

2020

NuSTAR (150 ks) observation GO AO7: A new extreme Compton-thick AGN candidate NGC 591

Principal Investigator

2017

Neil Gehrels Swift (80 ks) Cycle 13: Tracking the wind variability in MCG-03-58-007

Principal Investigator

2016

NuSTAR (130 ks) & XMM-Newton (30 ks) observation AO2: Solving the hard X-ray excess of the NLSy1 TON S180

Principal Investigator

● **REVIEWING ACTIVITIES**

02/11/2022 – 04/11/2022

Reviewer at AO22 XMM-Newton Observational Time Allocation Committee (OTAC), ESA/ESAC, Spain

01/11/2021 – 05/11/2021

Reviewer at AO21 XMM-Newton Observational Time Allocation Committee (OTAC), ESA/ESAC, Spain

2022 – CURRENT

Reviewer for Dutch Research Council (NWO) funding proposals

2022 – CURRENT

Reviewer for Astrophysical Journal (ApJ) scientific publications

2018 – CURRENT

Reviewer for Monthly Notice of the Royal Astronomical Society (MNRAS) scientific publications

2018 – CURRENT

Reviewer for Astronomy & Astrophysics (A&A) scientific publications

- **MEMBERSHIP OF SCIENTIFIC SOCIETIES**

2013 – CURRENT

Member of Royal Astronomical Society (RAS), UK

- **SUPERVISION OF GRADUATE STUDENTS**

2019 – CURRENT

PhD supervision of Laura Tomas (second supervisor)

Departamento de Fisica Teorica, Universidad Autónoma de Madrid, Madrid, Spain

I am currently involved in the PhD supervision of Laura Tomas (like a first supervisor) and I am the second author of her first publication in MNRAS main journal titled: "The changing look AGN NGC 1566 in quiescence with XMM-Newton: a nuclear starburst and an AGN competing in power?" in 2022

01/03/2019 – 01/09/2019

Co-supervision of ESA Trainee Zsofi Igo:

European Space Astronomy Centre (ESAC), XMM-Newton Operation Centre, European Space Agency, Spain
Project and MNRAS publication title: "Searching for outflows in AGN using variability spectra"

- **TEACHING EXPERIENCE**

2013 – 2017

Teaching Assistant, Keele University, UK

During my PhD in Keele University I was the assistant lecturer in the problem classes of the following modules:

PHY 10020 – 'Oscillation and Waves'

PHY 10021 – 'Electricity and Magnetism'

PHY 10022 – 'Mechanics, Gravity and Relativity'

PHY 10024 – 'Nature of Matter'

2013 – 2017

Private Tutor (Mathematics and Physics)

During my PhD I was also registered on the Tutor Hunt website and carried out private tutoring from KS3 to University level maths and physics and astrophysics level