



Raphaël Vincent Wicker

WORK EXPERIENCE

Assegnista di Ricerca

Dipartimento di Fisica - La Sapienza Università di Roma [2 Jan 2024 – Current]

City: Rome | Country: Italy

- Leading research project "Reconstruction of galaxy cluster gas temperature maps from joint X-ray and SZ data, with the help of hydrodynamical simulations"
- Actively involved in several research projects
- Co-supervision of a Master 2 student

PhD Student

Institut d'Astrophysique Spatiale - Université Paris-Saclay [1 Oct 2020 – 30 Sep 2023]

City: Orsay | Country: France

- Leading different research projects under the umbrella : "Baryons in galaxy clusters : astrophysical effects and cosmological constraints", under the supervision of Dr. Marian Douspis, Dr. Laura Salvati and Dr. Nabila Aghanim
- Total 193h of teaching in the Physics Department of Université Paris-Saclay

Master 2 Internship

Institut d'Astrophysique Spatiale - Université Paris-Saclay [9 Mar 2020 – 19 Jun 2020]

City: Orsay | Country: France

- Leading the research project "Study of the two first Planck-detected galaxy superclusters, in optical spectroscopy from VLT/VIMOS", under the supervision of Dr. Nabila Aghanim and Dr. Victor Bonjean.

Master 1 Internship

Onsala Rymdobservatorium - Chalmers Tekniska Högskola [22 Apr 2019 – 19 Jul 2019]

City: Onsala | Country: Sweden

- Leading the research project "CO and CI absorption towards PKS 1830-211", under the supervision of Dr. Sebastien Muller

EDUCATION AND TRAINING

Doctorat ès Astronomie et Astrophysique

Université Paris-Saclay [1 Oct 2020 – 30 Sep 2023]

City: Orsay | Country: France | Website: <https://www.universite-paris-saclay.fr/> | Level in EQF: EQF level 8

Magistère de Physique Fondamentale

Université Paris-Saclay [1 Sep 2017 – 30 Jun 2020]

City: Orsay | Country: France | Website: <https://www.universite-paris-saclay.fr/> | Level in EQF: EQF level 7

Master de Sciences, Technologies, Santé, Mention Physique, Parcours Astronomie et Astrophysique

Université Paris-Saclay [1 Sep 2018 – 30 Jun 2020]

City: Orsay | Country: France | Website: <https://www.universite-paris-saclay.fr/> | Level in EQF: EQF level 7

Licence de Physique Fondamentale

Université Paris-Sud [1 Sep 2015 – 30 Jun 2018]

City: Orsay | Country: France | Website: <https://www.universite-paris-saclay.fr/> | Level in EQF: EQF level 6

LANGUAGE SKILLS

Mother tongue(s): French



Other language(s):

English

LISTENING C1 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Spanish

LISTENING A1 READING A2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Italian

LISTENING A1 READING A2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

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

DIGITAL SKILLS

Microsoft Office / Microsoft Word / Social Media / Microsoft Powerpoint / Microsoft Excel / Programming with Python / Knowledge in basic C++ and Fortran / Statistical methods in Python / Notions of machine learning in Python

PUBLICATIONS

[2023]

Constraining the mass and redshift evolution of the hydrostatic mass bias using the gas mass fraction in galaxy clusters

R. Wicker, M. Douspis, L. Salvati and N. Aghanim, A&A Volume 674, June 2023, A48

[2023]

A VLT/VIMOS view of two Planck multiple-cluster systems: Structure and galaxy properties

R. Wicker, N. Aghanim, V. Bonjean, E. Lecoq, M. Douspis, D. Burgarella, E. Pointecouteau A&A676, 2023 A61

[2022]

Constraining hydrostatic mass bias and cosmological parameters with the gas mass fraction in galaxy clusters

Raphaël Wicker, Marian Douspis, Laura Salvati, Nabila Aghanim, EPJWeb of Conferences 257, 2022, 00046

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 196/2003, coordinato con il Decreto Legislativo 101/2018, e dell'art. 13 del GDPR (Regolamento UE 2016/679) ai fini della pubblicazione in Trasparenza Ateneo - Sapienza come da normativa vigente.

Roma, 14 Nov 2024

Raphaël Vincent Wicker