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Dirk Scholte

PhD Candidate in Extragalactic Astrophysics

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EDUCATION

PhD in Extragalactic Astrophysics , <i>University College London</i> Thesis: <i>The baryon-to-halo mass relation</i>	2020 — Present
MSc in Astronomy and Astrophysics , <i>The University of Manchester</i> Dissertation: <i>Investigating low-frequency pulsar flux density variability with LOFAR beamformed and imaging observations</i>	2017 — 2018
BSc in Physics and Astronomy , <i>Utrecht University</i> Dissertation: <i>The “absolute” timing behaviour of the Crab pulsar at X-rays and gamma-rays</i>	2013 — 2017
International exchange , <i>University of Victoria</i>	2015 — 2016

SKILLS

Tools and Languages	Python, Git, \LaTeX , MySQL
Quantitative Research	Statistical analysis, Scientific modelling, Machine Learning applications, Big data
Communication	English, Dutch

EXPERIENCE

POST GRADUATE TEACHING ASSISTANT <i>University College London</i> <ul style="list-style-type: none">Interstellar physics	February 2022 — Present <i>London, UK</i>
ORBYTS TEACHING MATERIALS DEVELOPMENT AND DELIVERY <i>University College London</i> <ul style="list-style-type: none">Developing teaching materials for in classroom use at GCSE level	December 2021 — Present <i>London, UK</i>
CUSTOMER SERVICE SPECIALIST <i>Booking.com</i>	February 2020 — August 2020 <i>London, UK</i>
PALEONTOLOGY LAB ASSISTANT/VISITOR ENGAGEMENT <i>Oertijd Museum</i>	November 2019 — February 2020 <i>Boxtel, Netherlands</i>
SCIENCE ENGAGEMENT <i>Jodrell Bank Observatory, The University of Manchester</i> <ul style="list-style-type: none">Science talks on various topics for groups from 20 - 100+ peopleDelivery of schools programme for 150+ students daily	July 2018 — August 2019 <i>Macclesfield, UK</i>

ACTIVITIES

Conferences/Meetings	
PoSTER 2022 - Galaxy Evolution Prize for best poster/flash talk at conference: <i>The role of gas in galaxy evolution in the largest surveys</i>	May 2022
Likelihood-free in Paris conference, Participant	April 2022
ESCAPE data science summer school, Participant	July 2021
Dark Energy Spectroscopic Instrument collaboration meeting, Participant Talk: <i>The mass-metallicity relation with DESI</i>	June 2021
Science and Technology Facilities Council: Astronomy winter school, Poster Presenter Poster: <i>The baryon-to-halo mass relation</i>	January 2021
Service	
Extragalactic journal club, Chair	2021 — 2022
Staff and PhD student introductory meetings, Organizer	Spring/Summer 2021
Other	
Royal Astronomical Society, Fellow	October 2020 — Present
Data Driven Astronomy, Coursera/University of Sydney	September 2020

PUBLICATIONS

Overview of the Dark Energy Spectroscopic Instrument, *DESI Collaboration incl. Scholte, D.*, arXiv, May 2022
Study of spider pulsar binary eclipses and discovery of an eclipse mechanism transition, *Polzin, E. J.; Breton, R. P.; Bhattacharyya, B.; Scholte, D.; Sobey, C.; Stappers, B. W.*, MNRAS, May 2020
Available on: [NASA Astrophysical Data System](#)