

Joey Braspenning

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About Me

Master student in astronomy with a strong theoretical background. Strong interest in galaxy formation/evolution and the connection with large scale structure.

Outside of academics I have learnt that telling stories is central to growing trust and understanding.

Hobbies include playing the piano, hockey, cycling, reading books and losing time in news backstories.

Skills

Dutch



English



Python



C++



Honours

Leiden Leadership Program
Currently enrolled in this highly selective program focusing on three pillars. Sensitivity for yourself, others and the organisation.

Honours college bachelor
Took honours classes in fields ranging from maritime history and philosophy of law to virtual reality.

Education

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|-----------|---|----------------------|
| 2018- | MSc (9.08/10)
Astronomy and Data Science | Leiden University |
| 2017-2018 | MSc (pass)
Mathematical and Theoretical Physics | University of Oxford |
| 2014-2017 | BSc (8.3/10)
Double bachelor Astronomy & Physics | Leiden University |

Research and Projects

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|-----------|--|----------------------|
| 2019- | Non-Gaussian fields for Astronomy
<i>Supervisor: Elena Sellentin</i>
Generating non-Gaussian fields for HEALPIX and extracting optimal information to construct a consistent analysis framework for non-Gaussian fields. | Leiden University |
| 2018-2019 | Gas flows in the CGM
<i>Supervisor: Joop Schaye & Sowgat Muzahid</i>
Fitted HST/ACS galaxies with galfit and analysed HST/COS spectra of background QSOs, found an inhomogeneous OVI distribution around low-z galaxies. | Leiden University |
| 2017-2018 | Dynamics of Stellar Systems
<i>Supervisor: James Binney</i>
Compared classical the two-body encounter scheme of evolution with the newly described full kinetic solutions. | University of Oxford |
| 2016-2017 | Nanopatterned superconductors
<i>Supervisor: Milan Allan</i>
Produced nano-scale patterned superconducting chips in a clean-room and measured resistance at liquid Helium temperatures. | Leiden University |

Teaching

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|-----------|---|-------------------|
| 2018- | Tutor
Helping a group of five first-year physics/astronomy students with any course they find difficult in weekly two-hour tutor sessions. | Leiden University |
| 2016-2017 | Teaching Assistant
Assisted on the first year astronomy course Planetary Systems. Responsible for running exercise classes and grading problem sets and exams. | Leiden University |

Extracurricular activities

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|-----------|---|--|
| 2018- | Member Education Committee
Perform course evaluations and discuss with lecturers. Oversight duties on the educational program. | |
| 2015- | Tour Guide Leiden Observatory
I give tours through the historic "Old Observatory" to groups of all ages and professions. Often guided observations with our >100 year old telescopes are provided. | |
| 2016-2017 | Board member Astronomy Union
Excursions, social activities and a football tournament to help mix staff and students were organised with a small board. | |
| 2015-2016 | Board member Spring Lectures
Organised a popular lecture series on astronomy with eminent astronomers, such as the current IAU president. Four lectures of ~ 100 people sold out. | |