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**Google Scholar:** [Floor van Donkelaar](#)

## Personal Information

Nationality Dutch  
Date of Birth July 1 1998  
Languages Dutch (Native), English (Fluent), German (Elementary), Swedish (Elementary)

## Education

**MSc in Astrophysics** Aug 2019 - May 2021  
Lund University, Sweden GPA: 3.83/4.00  
Thesis: [The fate of stars born in gas-rich high redshift galaxies](#)  
Supervisor: Prof. Dr. Oscar Agertz

**BSc in sociotechnical engineering, minor in modern physics** Sep 2016 - Jul 2019  
University of Twente (ATLAS), The Netherlands GPA: 3.85/4.00  
Thesis: The Star Formation Rate, Metallicity and Thermal Pressure in Galaxies at  $z=0.4$  using MUSE  
Supervisor: Dr. Kasper Borello Schmidt from Leibniz-Institut für Astrophysik Potsdam

## Research Experience

**University of Zurich**  
PhD student Sep 2021 – Present  
Supervisor: Prof. Dr. Lucio Mayer  
· Research on the formation of disc galaxies investigating the gasue halos with the high resolution cosmological simulation, PHOEBOS, to be used in combination with observations of SKA.  
· Research on the formation of galaxy structures with GIGAERIS, a cosmological, N-body hydrodynamical zoom-in simulation of the formation of a Milky Way-sized galaxy.

**Oxford University**  
Research Internship Jun 2020 – November 2020  
Supervisor: Dr. Kearn Grisdale  
Analyzing gas and stellar properties of Giant Molecular Clouds in Large Magellanic Cloud-size disc galaxy with the use of N-body hydrodynamical simulations.

**Leibniz-Institut für Astrophysik Potsdam**  
Summer Project Jul 2017  
Supervisor: Dr. Kasper Borello Schmidt  
Generating template spectra of MUSE-Wide emission lines sources.

## References

**Prof. Dr. Lucio Mayer**, University of Zurich, [lucio.mayer@uzh.ch](mailto:lucio.mayer@uzh.ch)  
**Prof. Dr. Oscar Agertz**, Lund University, [oscar.agertz@astro.lu.se](mailto:oscar.agertz@astro.lu.se)

## Teaching & Public Outreach

### Teaching Assistant, University of Zurich

|   |             |
|---|-------------|
| AST 202: The Universe: Contents, Origin, Evolution and Future | Spring 2024 |
| AST 245: Computational Astrophysics                           | Fall 2023   |
| AST 295: Astrobiology proseminar                              | Fall 2023   |
| AST 248: The Sun and Planets                                  | Spring 2023 |
| AST 295: Astrobiology proseminar                              | Fall 2022   |
| AST 202: The Universe: Contents, Origin, Evolution and Future | Spring 2022 |
| AST 201: Introduction to Astrobiology                         | Fall 2021   |

### Chief Public Relations, Green Team Twente

Jun 2017 - Sep 2018

Student team working on one of the most efficient hydrogen city cars in world. As head of the public relations and graphic designer of the team, it was my main responsibility to decide about the appearance of the team and organ zine the main events.

## Invited Talks

A full list of the talks I have given can be found on my [website](#).

### 'Stellar Systems at $z > 4$ : The hybrid formation scenario for the nuclear star cluster'

Lund University, 8 May 2023

### 'The GigaEris Simulation: What makes a high-redshift galaxy different?'

University of Chicago, 31 Mar 2023, [abstract](#) [ULR](#)

### 'The Formation of the Nuclear Star Cluster'

University of Chicago, 28 Mar 2023, [abstract](#) [ULR](#)

### 'Stellar Systems at $z > 4$ : Proto-Globular Cluster properties and the imposter amongst us'

Lund University, 16 Nov 2022

## Publications

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| ORCID:                               | <a href="#">0000-0002-7235-9747</a> |
| Number of first-author publications: | 3                                   |
| Number of co-authored publications:  | 0                                   |
| Number of first-author submissions:  | 2                                   |
| Number of co-authored submissions:   | 0                                   |
| Sum of times cited:                  | 29                                  |

## Skills

### Programming

Python | MATLAB | SQL | C | C++

### Other

LaTeX | Windows OS | Linux OS | Microsoft Office Package | Adobe Package

## Active scientific member

Member of the HI Galaxy Science working group of **SKA** & part of **SKACH**.

## Organizations

### Public Relations Responsible

of the [Grasshopper Club Zürich Rugby women's team](#)

July 2023 - Present

### PhD Representative

At the Institute of Computational Sciences

May 2022 - Present

### UCT Alumni Association

Chair & PR representative

Sep 2021 - Aug 2022

### Faculty Council EEMCS

Elected member, University of Twente

Sep 2017 - Aug 2018