

Curriculum Vitae: Eric P. Andersson

PERSONAL & CONTACT INFORMATION

Surname: Andersson
Names: Eric Peter
Title: Mr
Date of birth: 26 Sept., 1992
Nationality: Swedish

Work Address:
Lund Observatory,
Dept. of Astronomy & Theoretical Physics,
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RESEARCH INTEREST

Galaxy evolution and formation, Star formation and evolution, Stellar feedback and enrichment, Computational hydrodynamics

REFERENCES

1. Dr. Oscar Agertz
Lund Observatory, Dept. of Astronomy & Theoretical Physics, Lund University,
Box 43 , SE-22100 Lund, Sweden. *E-mail:* oscar.agertz@astro.lu.se
2. Dr. Florent Renaud
Lund Observatory, Dept. of Astronomy & Theoretical Physics, Lund University,
Box 43 , SE-22100 Lund, Sweden. *E-mail:* florent@astro.lu.se
3. Prof. Melvyn B. Davies
Lund Observatory, Dept. of Astronomy & Theoretical Physics, Lund University,
Box 43 , SE-22100 Lund, Sweden. *E-mail:* mbd@astro.lu.se
4. Dr. Chao-Chin Yang
University of Nevada, Las Vegas, Department of Physics and Astronomy,
4505 S. Maryland Pkwy, Box 454002, Las Vegas, NV 89154-4002, U.S.A
E-mail: ccyang@unlv.edu

ACADEMIC HISTORY

(2018 – present) Doctoral student of astronomy

[Dept. of Astronomy and Theoretical Physics, Lund University, Sweden](#)

- Project: *Researching how different physical processes affect galaxy formation and evolution in different environments.*
- Advisors: [Oscar Agertz](#), [Florent Renaud](#), [Melvyn B. Davies](#)
- Area of Study: Formation and evolution of galaxies

(2016 – 2018) Master student in Astrophysics

[Dept. of Astronomy and Theoretical Physics, Lund University, Sweden](#)

- Thesis Topic: *Estimating the probability of tidally stripping globular clusters from dwarf satellites in the M31 potential.*
- Advisors: [Prof. Melvyn B. Davies](#)
- Area of Study: Galactic dynamics

(2013 – 2016) Bachelor student in Theoretical physics

[Dept. of Astronomy and Theoretical Physics, Lund University, Sweden](#)

- Thesis Topic: *Development of an algorithm to reduce the computational workload in multi-processor simulations of protoplanetary discs.*
- Advisors: [Dr. Chao-Chin Yang](#)
- Area of Study: Computational astrophysics, Planet formation

REFEREED PUBLICATIONS

Andersson E.-P., Agertz O., Renaud F., 2020, arXiv:2003.12297

Andersson E. P., Davies M. B., 2019, MNRAS, 485, 4134

ACADEMIC PROJECTS

(2018) Summer project in Astrophysics

[Dept. of Astronomy and Theoretical Physics, Lund University, Sweden](#)

- Project: *Writing and submitting article: Tidal stripping as a mechanism for placing globular clusters on wide orbits: the case of MGC1 in M31*
- Advisors: [Prof. Melvyn B. Davies](#)
- Area of Study: Globular cluster dynamics in galaxies.

(2017) Summer project in Astrophysics

Dept. of Astronomy and Theoretical Physics, Lund University, Sweden

- Project: *Implementation and testing of new adaptive-particles algorithm for the PENCIL code.*
- Advisors: [Dr. Chao-Chin Yang](#)
- Area of Study: Computational astrophysics, Planet formation

CONTRIBUTED
TALKS AND
POSTERS

(3 October, 2019) RAMSES user meeting (Copenhagen)

Talk titled: *Simulating individual star in RAMSES*

(5 August, 2019) Santa Cruz Galaxy Workshop (US)

Talk titled: *Understanding galaxy formation star by star* [\[Slides\]](#)

(13 August, 2019) COMPUTE workshop (Sweden)

Poster titled: *Understanding galaxy formation star by star*

(28 May, 2019) The New Milky Way meeting, Örenäs castle (Sweden)

Talk titled: *Simulating dwarf galaxies with individual stars*

(19 November, 2018) The Survival of Dense Star Clusters in the Milky Way System (MPIA, Heidelberg)

Talk titled: *Tidal stripping as a mechanism for placing globular clusters on wide orbits*

(19 July, 2018) Tracing star and cluster formation across cosmic times (Sexten, Italy)

Talk titled: *Tidal stripping as a mechanism for placing globular clusters on wide orbits*

TEACHING

Lund University

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| 2019 | Assisting supervision of MSc student Mateo Prgomet |
| 2019 | Guiding problem based learning (PBL) in High Energy Astrophysics course (MSc level) |
| 2018 | Developed and supervised computer exercise in Galaxies and Cosmology course (BSc level) |
| 2018 | Guiding PBL in Stellar Structure and Evolution course (MSc level) |
| 2018/2019 | Supervising observational exercise in Introduction to Astrophysics course (BSc level) |
| 2018 | Supervising remote radio-telescope observations in Galaxies and Cosmology course (BSc level) |

GRANTS/
FUNDING

(2018) Kungliga Fysiografiska Sällskapet i Lund, 50K SEK

LEADERSHIP
EXPERIENCE
OUTREACH

(2019) Galaxy formation meetings (GalForm), Lund University.

Chair and main organiser.

(2018 – 2019) Board of undergraduate education, Lund University.

(2018 – 2019) Telescope responsible, Lund University.

(2018) Journal Club, Lund University. Chair person.

(2017 – 2018) ALVA, Local public outreach organisation, Lund University.

President (2017-2018) & Vice president (2016-2017).

(2017) Lund planetarium, Lund Observatory.

Employee trained to host planetarium shows.

(2017) LOC for the 4-MOST DFDR consortium, Lund University.

Member of LOC for consortium 29-30 March.

(2017) LOC for the Knut & Alice Wallenberg foundation 2017 symposium

Lund University.

(2016) Mentor committee of the Lund University science union

Lund University. Position: Member.

(2013, 2014, 2015, 2017, 2018 & 2019) Outreach event Kulturnatten, Lund University.