

Emily L. Hunt – Curriculum Vitae

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Education & Employment

2023-2024, Postdoc, Heidelberg University, Germany

Ph.D. 2023, Heidelberg University, Germany

Thesis: “Improving the census of open clusters in the Milky Way with data from Gaia”

Advisor: S. Reffert

M.Phys. 2019, University of Bath, United Kingdom

Thesis: “Inference of photometric galaxy redshifts with a mixture density network”

Advisor: S. Wuyts

Selected Presentations

Talk , .Astronomy 12 – Flatiron Institute, New York, NY, USA	2023
Colloquium , Königstuhl Colloquium – MPIA, Heidelberg, Germany	2023
Talk , National Astronomy Meeting – Coventry, England, UK	2022
Invited talk , EAS (SS34) – Valencia, Spain	2022
Invited talk , EAS (S32) – Leiden, Netherlands	2021
Seminar , Gaia group – University of Vienna, Austria	2021

Open-source software 🔄

Bluesky Astronomy feeds – lead developer of [astronomy community feeds](#) on Bluesky social network, which are used daily by hundreds of astronomers to interact

ocelot – lead developer of an upcoming open cluster analysis Python package

Awards

Ernst Patzer Award for an excellent publication (press release)	€2000 – 2023
University of Bath IMI Undergraduate Research Internship	£2000 – 2018

Teaching & Supervision

Astronomy Lab Course , Heidelberg University	2021
Introduction to Astronomy I , Heidelberg University	2020

Co-supervisor of MSc student, Heidelberg University

2020-2021

Selected Outreach

Invited talk – OUTer SPACE, Max Planck Institute for Astronomy	2023
Interviewed for article – Space.com	2021
Interviewed for article – Thrillist.com	2020
Radio interview – Deutschlandfunk (public radio) & Neue Zürcher Zeitung	2020

Meeting organization & service

SOC for .Astronomy 13	2024
SOC for .Astronomy 12	2023
Project leader at CZS school on Scientific Machine Learning in Astrophysics	2023
Session leader at GaiaUnlimited Community Workshop	2022
Reviewer for A&A	ongoing

Relevant expertise

Programming languages

Python: expert (e.g. numpy, tensorflow, emcee)
JavaScript: intermediate (Svelte, SvelteKit)
C/C++: intermediate
Java: basic

Tools and scripting languages

Git/GitHub: expert
LaTeX: expert
HTML/CSS: intermediate
ADQL/SQL: basic

Languages

English: native speaker
German: intermediate

Publications

ADS search 

3. **Emily L. Hunt** and Sabine Reffert (2024). “Improving the open cluster census. III. Using cluster masses, radii, and dynamics to create a cleaned open cluster catalogue”. [A&A, accepted](#)
2. **Emily L. Hunt** and Sabine Reffert (2023). “Improving the open cluster census. II. An all-sky cluster catalogue with Gaia DR3”. [A&A, 673, A114](#)
(56 citations)
1. **Emily L. Hunt** and Sabine Reffert (2021). “Improving the open cluster census. I. Comparison of Clustering Algorithms applied to Gaia DR2 Data”. [A&A, 646, A104](#)
(67 citations)