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

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	€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 – Neue Zürcher Zeitung (NZZ) 2020

Meeting organization & service

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. **Hunt, Emily L.** and Reffert, Sabine (in prep.). “Improving the open cluster census. III. The masses and dynamics of open clusters in the Milky Way”.

2. **Hunt, Emily L.** and Reffert, Sabine (2023). “Improving the open cluster census. II. An all-sky cluster catalogue with Gaia DR3”. A&A, 673, A114
(20 citations)

1. **Hunt, Emily L.** and Reffert, Sabine (2021). “Improving the open cluster census. I. Comparison of Clustering Algorithms applied to Gaia DR2 Data”. A&A, 646, A104
(57 citations)