

Emily L. Hunt – Curriculum Vitae

 On request  emily.hunt.physics@gmail.com  emily.space  [emilyhunt](https://github.com/emilyhunt)

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

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| Colloquium , Königstuhl Colloquium – MPA, 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

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

Teaching & Supervision

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| Astronomy Lab Course , Heidelberg University | 2021 |
| Introduction to Astronomy I , Heidelberg University | 2020 |
| Co-supervisor of MSc student , Heidelberg University | 2020-2021 |

Selected Outreach

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| 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

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| 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](#) **(21 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)**