

# Emily L. Hunt – Curriculum Vitae

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## Education & Employment

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

## Open-source software 🔄

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**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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<b>Ernst Patzer Award</b> for an excellent publication ( <a href="#">press release</a> )	€2000 – 2023
<b>University of Bath IMI Undergraduate Research Internship</b>	£2000 – 2018

## Teaching & Supervision

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<b>Astronomy Lab Course</b> , Heidelberg University	2021
<b>Introduction to Astronomy I</b> , Heidelberg University	2020

**Co-supervisor of MSc student**, Heidelberg University

2020-2021

## Selected Outreach

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

## Meeting organization & service

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

## Relevant expertise

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### 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

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ADS search 

3. **Emily L. Hunt** and Sabine Reffert (Submitted). “Improving the open cluster census. III. The masses and dynamics of open clusters in the Milky Way”.
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](#) **(25 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](#) **(57 citations)**