

EDUCATION

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| PhD - Kapteyn Institute, University of Groningen | 2020–Current |
| Assembly history of the Milky Way using Gaia and spectroscopic surveys | |
| Supervisor: Prof. Dr. Amina Helmi | |
| MPhys - Lancaster University | 2016–2020 |
| Can we observe young globular clusters forming at high redshift? | |
| Supervisor: Dr. David Sobral | |

OTHER RESEARCH EXPERIENCE

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| Internship - Lancaster University, Dr. David Sobral | Summer 2019 |
| Lyman alpha haloes across cosmic time | |
| Internship - ESA ESTEC/Leiden University, Dr. Alice Zocchi | Summer 2018 |
| The dynamical origin of the flattening of globular clusters | |
| Internship - Lancaster University, Dr. David Sobral | Summer 2019 |
| Using Hubble and ALMA to unveil the nature of CR7 | |

PUBLICATIONS

- [1] E. Balbinot, A. Helmi, T. Callingham, T. Matsuno, **E. Dodd**, and T. Ruiz-Lara, “Ed-2: A cold but not so narrow stellar stream crossing the solar neighbourhood”, *arXiv preprint arXiv:2306.02756*, 2023.
- [2] **E. Dodd**, T. M. Callingham, A. Helmi, T. Matsuno, T. Ruiz-Lara, E. Balbinot, and S. Lövdal, “The Gaia DR3 view of dynamical substructure in the stellar halo near the Sun”, *arXiv e-prints*, arXiv:2206.11248, arXiv:2206.11248, Jun. 2022. arXiv: 2206.11248 [astro-ph.GA].
- [3] **E. Dodd**, A. Helmi, and H. H. Koppelman, “Substructures, resonances, and debris streams. A new constraint on the inner shape of the Galactic dark halo”, vol. 659, A61, A61, Mar. 2022. arXiv: 2105.09957 [astro-ph.GA].
- [4] S. S. Lövdal, T. Ruiz-Lara, H. H. Koppelman, T. Matsuno, **E. Dodd**, and A. Helmi, “Substructure in the stellar halo near the Sun. I. Data-driven clustering in integrals-of-motion space”, *Astronomy & Astrophysics*, vol. 665, A57, A57, Sep. 2022. arXiv: 2201.02404 [astro-ph.GA].
- [5] T. Matsuno, **E. Dodd**, H. H. Koppelman, A. Helmi, M. N. Ishigaki, W. Aoki, J. Zhao, Z. Yuan, and K. Hattori, “High-precision chemical abundances of Galactic building blocks. II. Revisiting the chemical distinctness of the Helmi streams”, vol. 665, A46, A46, Sep. 2022. arXiv: 2203.11808 [astro-ph.GA].
- [6] T. Ruiz-Lara, T. Matsuno, S. S. Lövdal, A. Helmi, **E. Dodd**, and H. H. Koppelman, “Substructure in the stellar halo near the Sun. II. Characterisation of independent structures”, *Astronomy & Astrophysics*, vol. 665, A58, A58, Sep. 2022. arXiv: 2201.02405 [astro-ph.GA].
- [7] **Dodd, Emma**, H. Baker, H. Child, T. Harrison, M. Hodge, A. Hackett-Evans, and D. Sobral, “On the nature of globular and open clusters (goc): A study of m16, m67, m3 & m71”, *Notices of Lancaster Astrophysics (NLUAstro)*, vol. 1, pp. 1–20, 2019.

TEACHING

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| Teaching Assistant at Kapteyn Institute, University of Groningen <i>Physics of Galaxies</i> | Spring 2022, 2023 |
| Including assistance in the design of a computational project using galaxy data | |
| Teaching Assistant at Kapteyn Institute, University of Groningen <i>Numerical Methods</i> | Spring 2021 |
| Shared Supervision of Honours student at Kapteyn Institute, University of Groningen | Autumn 2023 |

AWARDS AND FUNDING

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| • MW-GAIA COST Action Grant | 2023 |
| • Research Academy Prize for Masters Thesis | 2020 |
| • DEX XVI Best Talk | 2020 |
| • Ogden Trust Intern of the Year | 2017 |
| • Ogden Trust Undergraduate Science Scholarship | 2016-2020 |
| • Ogden Trust Year 12 Physicist of the Year | 2015 |

TALKS

Invited

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| • Towards Real-Time Galactic Dynamics, Lorentz Centre, Leiden | July 2022 |
| • Invited seminar at Istanbul University | March 2022 |

Contributed

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| • Group seminar at University of Chicago | September 2023 |
| • MODEST-23: Star Clusters in the Post Pandemic Era | August 2023 |
| • Group seminar at University of Granada | March 2023 |
| • Lunch talk at Kapteyn Institute | March 2023 |
| • IAUS 377: Early Disk-Galaxy Formation from JWST to the Milky Way | February 2023 |
| • Kapteyn science day 2022 | December 2022 |
| • Nova NW1 meeting 2022 | September 2022 |
| • Nova NW1 meeting 2021 | October 2021 |
| • Lunch talk at Kapteyn Institute | September 2021 |
| • Galaxy cookies, informal talk at Kapteyn Institute | November 2020 |
| • DEX XVI: 2020 vision: progress and tensions in astronomy | January 2020 |
| • LEAPS final presentations | August 2018 |

Posters

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| • EAS 2022 | June 2022 |
| • EAS 2021 | June 2021 |

SUCCESSFUL OBSERVING PROPOSALS

- **PI of ESO proposal** 0111.D-0263(A) Nature of accreted streams populating the local halo UVES/VLT (16.4 hrs)
- **Co-PI of INT proposal** TIHMPSS: The INT Halo Metal Poor Star Survey (40 nights 21B/22A, Calhau & Sobral)

OTHER ACADEMIC ACTIVITIES

- **Chair and organisation of weekly lunch talks at the department** 2022 –Current
- **Young Minds Groningen:** secretary, now vice president, organise scientific and outreach events 2021 –Current
- **Observing experience:** 2 nights experience observing with INT/WFC including full data reduction 2018
- **Outreach:** heavily involved with the XGAL outreach team during my undergraduate degree 2017 –2020

LANGUAGES AND SOFTWARE

- **Python** (including numpy, scipy, agama, vaex) : High level
- **Gadget Nbody:** Good level of experience

REFERENCES

Available upon request