

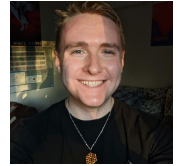
Mr. Christian Kirkham, FRAS

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🐦 @1420megahertz

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🌐 <http://astrochristian.github.io/>



Employment History

- 2023 – 2024 **Supervisor for Part II Stellar Dynamics and Structure of Galaxies Module** Institute of Astronomy, University of Cambridge
- 2022 – 2023 **Demonstrator for Part IA Scientific Computing Module** Department of Physics, University of Cambridge
- Sep 2021 **“Developing a Remote Operation Mode for the TARA Radio Telescope”** Centre for Extragalactic Astronomy, Durham University

Education

- 2022 – Present **Ph.D., University of Cambridge** Physics
Thesis title: *Foreground Modelling using Bayesian Techniques for 21cm Cosmology.*
- 2018 – 2022 **MPhys., Durham University** Physics with Astronomy.
Thesis title: *The Gaia and HST Cepheid Scales and the Tension in Hubble’s Constant.*

Research Publications

- 1 C. J. Kirkham, D. J. Anstey, and E. d. L. Acedo, *A Bayesian Method to Mitigate the Effects of Unmodelled Time-Varying Systematics for 21-cm Cosmology Experiments*, Oct. 2023. [DOI](#): 10.48550/arXiv.2310.17975. arXiv: 2310.17975 [astro-ph]. (visited on 10/31/2023).

Skills

- Languages **Strong reading, writing and speaking competencies in English**
- Coding **Python, \LaTeX , Git, UNIX.**
- Databases **ADQL.**
- Web Dev **HTML, CSS, JavaScript.**
- Misc. **Academic research, teaching, \LaTeX typesetting and publishing.**

Talks

Conference and Workshop Talks

- Feb 2024 **“Gaussian Processes for Mitigating Systematics in Global 21-cm Cosmology Experiments”** IoA Wednesday Seminar, University of Cambridge, UK
- “Gaussian Processes for Mitigating Systematics”** Science with the 21-cm line, Kavli Science Focus Meeting, University of Cambridge, UK
- Sep 2023 **“A Bayesian Method to Mitigate the Effects of Unmodelled Time-Varying Systematics for 21-cm Cosmology Experiments”** REACH Annual Meeting, University of Malta, Malta

Talks (continued)

Poster Presentations

Mar 2024  **“A Bayesian Method to Mitigate the Effects of Unmodelled Time-Varying Systematics for 21-cm Cosmology Experiments”** Cosmology in the Alps, Les Diablerets, Switzerland

Miscellaneous Experience

Awards and Achievements

2024  **College Senior Scholarship**, Fitzwilliam College, Cambridge

2019  **Physics Award for Outstanding Achievement**, Durham University

References

Available on Request