

DR. TOBY BROWN

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Department of Physics and Astronomy McMaster University, Hamilton, Canada

EXPERIENCE

Post Doctoral Fellow, Astrophysics

McMaster University

October 2017 - present

Hamilton, Canada

- Leading multiple international research projects in extra-galactic astrophysics.
- Identifying and achieving research goals, anticipating problems and finding solutions.
- Supervision of PhD candidates and undergraduate students.
- Collaborating with experts, forming productive research partnerships.
- Successfully pursuing funding, and managing research budgets and resources.
- Advanced data science and software development.
- 6 publications in world-leading academic journals.

EDUCATION

Business Administration with Management

McMaster University CCE

May 2018 - Present

Hamilton, Canada

- Courses include: Business Strategy, Operations Management, Principles & Practices of Supervision.
- Continued education to ensure a strong foundation in core business competencies, combined with a specialization in management.

Doctor of Philosophy (Ph.D.), Astrophysics

Swinburne University of Technology

October 2013 - August 2017

Melbourne, Australia

- Awarded a competitive stipend of ~\$280,000 AUD to fund my research.
- Final 2 years at the University of Western Australia, Perth, Australia.
- Thesis nominated for the International Astronomical Union's best PhD prize (not yet awarded).

Astrophysics MPhys, Hons

University of Liverpool

September 2009 - June 2013

Liverpool, UK

- Awarded an Upper Second Class (2:1, GPA equivalent $\sim 3.33 - 3.67$).
- Relevant courses: Theoretical Physics, Computational Astrophysics, Communication of Scientific Ideas.
- Co-Editor of university's student paper and frequent outreach and public speaker.

LEADERSHIP AND VOLUNTARY ROLES

Supervisor - Integrated Science degree

Dept. Physics & Astronomy

2018 - present

McMaster University

- Supervise and oversee a group of 8 students and their astrophysics project based learning.

Steering Committee Representative

Early Career Researcher Chapter

2016 - 2017

Astronomical Society of Australia

- Oversee policies and procedures of the Astronomical Society of Australia's ECR Chapter.

PUBLIC SPEAKING AND COMMUNICATION

- **Award-winning public talks** for audiences of 700+. Including the March for Science, the British Council's science communication competition Famelab, Robin Ince's Cosmic Shambles.
- **Media commentary** across national press and radio, including The Conversation, ABC Radio National, ABC 720 Perth, ABC Melbourne.
- **Media coverage** of my research has been published in Scientific American, News.com.au, The Daily Telegraph, Space.com, Gizmodo and IFL Science, amongst others.