

Jacob Buete

Curriculum Vitae

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Education

- 2013–2016 **Bachelor of Science (Advanced) (Honours)**, *The Australian National University*, Canberra, ACT, HD-average.
- Major: Theoretical Physics
 - Specialisation: Advanced Physics
 - Minor: Mathematics
 - Honours: Astronomy and Astrophysics (graduating in December 2016)

Honours Thesis

- title *A Realistic Sub-grid Supernovae Implementation for Exploring Supernova Driven Turbulence*
- supervisors Dr Christoph Federrath
- description Implemented an analytical supernova model in a FORTRAN-based hydrodynamics codebase that employs adaptive mesh refinement, FLASH. (jbuete.com/honours)

Experience

Vocational

- 2016 **IT Assistant**, *Bruce Hall*, Canberra.
- Worked as part of the student IT team at Bruce Hall.
- Job Details:
- Worked as a go-between for Bruce Hall and ANU IT services;
 - Fixed technology-related issues encountered by students and Bruce Hall admin;
 - Ran Bruce Hall's internal website, including:
 - Writing Python scripts to update MySQL database of student information;
 - Created video series to teach student leadership team how to create and format articles on the site.

Open Source Projects

FlashPy.

Developing a Python module to interface with HDF5 output files from FLASH simulations. The module provides automated analysis and visualisation tools. (github.com/JBuete/FlashPy)