

Damien Robertson

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Experience

McMaster University - Hamilton, ON

Research, Sept. 2012 - Aug. 2014

- Combined multi-wavelength, multi-instrument infrared, and radio observations of star forming regions in two and three dimensions using Python.
- Setup, maintained, and queried SQL databases of pre-stellar cores.
- Evaluated source finding algorithms, performed and tabulated statistical tests in R and Python.
- Created and maintained Python programs for source finding and structure identification in two and three dimensional data sets.

Tri-University Meson Facility, TITAN - Vancouver, BC

Research, May 2011 - Aug. 2011

- Designed, fabricated, and tested an electrostatic ion barrier gauge to improve detector performance.
- Maintained, tested ultra high vacuum components, and implemented new vacuum pump in beam line.
- Team member in two mass measurement experiments along with routine equipment maintenance.

Saint Mary's University - Halifax, NS

Research, May 2009 - Sept. 2012

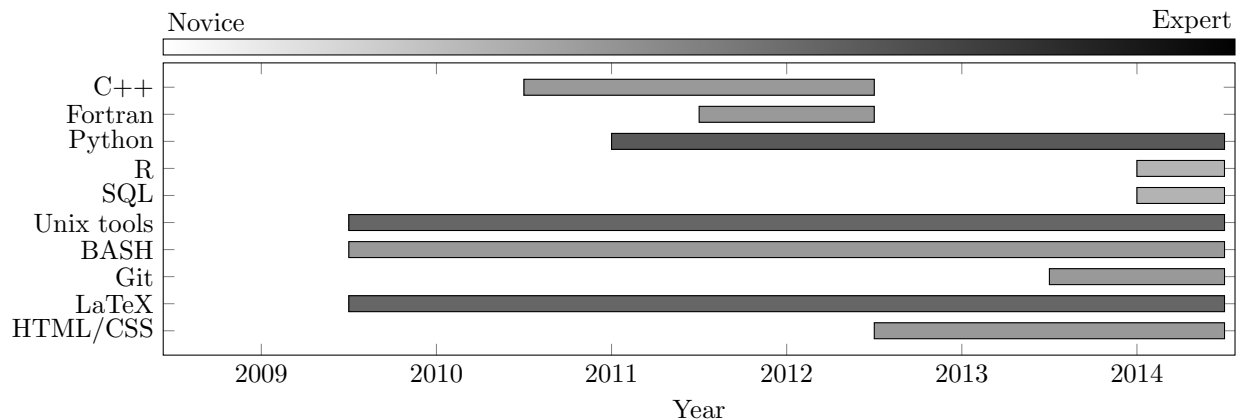
- Processed X-ray and UV observations of active galaxies using data reduction pipelines in BASH, C++.
- Created and maintained bulk data sets, mined data for exploration, and quantity correlation.
- Created a Python program to correlate unevenly sampled light curves (time series) based on the discrete correlation function algorithm.
- Published paper on time series analysis, worked based on undergraduate thesis.

Saint Mary's/McMaster University

Science Outreach, May 2010 - Present

- Burke Gaffney Observatory - Technician and guide for public tours.
- William J. McCallion Planetarium - Created and performed shows to private and public audiences.

Skills Profile



Education

McMaster University - Hamilton, ON

M.Sc. Physics and Astronomy, Sept. 2012 - Sept. 2014

Saint Mary's University - Halifax, NS

B.Sc. Honours, Astrophysics (Summa Cum Laude), Sept. 2008 - May 2012

Algonquin College - Ottawa, ON

Diploma - Business Marketing, Sept. 2004 - May 2006