Eric W. Koch Curriculum Vitæ

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Education

2014-2016 University of Alberta

MSc. (Physics)

Thesis: "Triggered Star Formation in M33"

Adviser: Erik Rosolowsky

2010-2014 University of British Columbia

Hon. BSc. (Physics)

Employment

2014-present University of Alberta
Graduate Student

2011-2013 University of British Columbia, Okanagan
Teaching Assistant

2013-2014 University of British Columbia, Okanagan
Research Assistant

Fellowships and Awards

2015	University of Alberta Queen Elizabeth II MSc Scholarship - \$10,800 CAD
2010-2014	University of British Columbia, Okanagan Deputy Vice Chancellor Scholarship - \$1,500 CAD each year
2014	University of British Columbia, Okanagan Distinguished Graduate Award - Physics, Math, Statistics & Computer Science
2014	University of Alberta NSERC CGSM - \$17,500 CAD
2013	University of Alberta NSERC USRA
2013	University of British Columbia, Okanagan Top Oral Presenter - UBC-O Undergraduate Research Conference
2013	University of British Columbia, Okanagan Upper Year Physics Award
2012	University of British Columbia, Okanagan NSERC USRA
2012	University of British Columbia, Okanagan Second Year Physics Award - Honourable Mention
2013	University of British Columbia, Okanagan President's Entrance Scholarship - \$2,500 CAD

External Funding

2015	Co-I - A centralized database for pan-chromatic nearby galaxy data
	Amazon Web Services & Square Kilometre Array
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\$3200 USD (credits)

2015 Co-I - Development of an image variability service in the cloud

Amazon Web Services & Square Kilometre Array

\$14000 USD (credits)

PI - Developing a radio cube imaging service in the cloud Amazon Web Services & Square Kilometre Array \$1500 USD (credits)

Submitted Publications

2015

1. EW Koch, CG Ward, S Offner, J Loeppky, E Rosolowsky. "Tools for Critically Evaluating Simulations of Star Formation." 2016, MNRAS submitted.

Refereed Publications

- 2. EW Koch, EW Rosolowsky. "Filament Identification through Mathematical Morphology." 2015, MNRAS 452 3435-3450.
- 1. EW Koch, A Bahramian, CO Heinke, K Mori, N Rea, N Degenaar, D Haggard, R Wijnands, G Ponti, JM Miller, F Yusef-Zadeh, F Dufour, WD Cotton, FK Baganoff, MT Reynolds. "The 2013 outburst of a transient very faint X-ray binary, 23 arcsec from Sqr A*." 2014, MNRAS 442 372-381.

Professional Talks

2015 May	Florence Simulations-Observations Workshop (Florence, Italy) "Critically Comparing Simulations and Observations of Star Formation"
2014 Apr	UBC-O Undergraduate Research Conference (Kelowna) "Filament Identification through Mathematical Morphology"
2013 Nov	UBC-O Brown Bag Series (Kelowna) "A New Low-Mass X-Ray Binary in the Galactic Centre"
2013 Apr	UBC-O Undergraduate Research Conference (Kelowna) "Converging Flows in Star-Forming Regions"

Poster Presentations

2013 Jun	Canadian Astronomical Society Conference (Vancouver)
	"UBC-O Undergraduate Research Conference"