Eric W. Koch Curriculum Vitæ

Dept. of Physics, University of Alberta 4-181 CCIS, University of Alberta

ekoch@ualberta.ca e-koch.github.io

Updated Aug 21, 2016.

Education

2016-Present University of Alberta
PhD. (Physics)
Adviser: Erik Rosolowsky

2014-2016 University of Alberta
MSc. (Physics)
Thesis: "The Atomic Interstellar Medium in M33"
Adviser: Erik Rosolowsky

2010-2014 University of British Columbia

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

Hon. BSc. (Physics)

Fellowships and Awards

ciiowsinps an	11// 41/45
2016	University of Alberta NSERC Post-graduate Graduate Scholarship - Doctorate
2015	University of Alberta Queen Elizabeth II MSc Scholarship
2010-2014	University of British Columbia, Okanagan Deputy Vice Chancellor Scholarship
2014	University of British Columbia, Okanagan Distinguished Graduate Award - Physics, Math, Statistics & Computer Science
2014	University of Alberta NSERC Canadian Graduate Scholarship - Masters
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
2010	University of British Columbia, Okanagan President's Entrance Scholarship

External Funding

2015	Co-I - A centralized database for pan-chromatic nearby galaxy data Amazon Web Services & Square Kilometre Array \$3200 USD (credits)
2015	Co-I - Development of an image variability service in the cloud Amazon Web Services & Square Kilometre Array \$14000 USD (credits)
2015	PI - Developing a radio cube imaging service in the cloud Amazon Web Services & Square Kilometre Array \$1500 USD (credits)

Submitted Publications

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

Refereed Publications

- 3. Y Lin, L H.B., L D., Z Z., G A., P J.E., Q L., G-M R., ML A.F., R E., D J.E., I K., K E., L S., W D., T L.. "Cloud Structure of Galactic OB Cluster Forming Regions from Combining Ground and Space Based Bolometric Observations." 2016, ApJ, in press.
- 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 Sgr A*." 2014, MNRAS 442 372-381.

Professional Talks

2016 Aug	Lorentz Centre - Apples to Apples Workshop "Identifying Tools for Comparing Simulations and Observations of Star-forming Regions"
2016 Feb	MPE - $CAS\ Seminar$ "Comparing Simulations and Observations of Star Formation using Experimental Design"
2016 Feb	$MPIfR - Special\ Colloquium$ "Comparing Simulations and Observations of Star Formation using Experimental Design"
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"