

Kenny X. Van

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Research Interests

stellar astrophysics, stellar multiplicity, high energy astrophysics, stellar populations, hydrodynamics, numerical method

Education

- 2017 – PRESENT PhD candidate in PHYSICS
 University of Alberta, Edmonton
 Major: Astrophysics
 Thesis: “Binary Evolution and Magnetic Braking”
 Advisor: Prof. Natalia Ivanova
- 2015 – 2017 Master of Science in PHYSICS
 University of Alberta, Edmonton
 Major: Astrophysics
 Thesis: “Select Topics in Mass Transfer and Magnetic Braking”
 Advisor: Prof. Natalia Ivanova
- 2010 – 2015 Undergraduate Degree in PHYSICS
 University of Alberta, Edmonton
 Major: Astrophysics

Research

- IN PROGRESS The Effect of Magnetic Braking on Neutron Star Low Mass X-Ray Binaries
 Supervised by Prof. Natalia Ivanova
- FALL 2014 Black Hole Binaries in Globular Clusters
 Undergraduate research project
 Supervised by Prof. Natalia Ivanova
- WINTER 2013 Finding a Pattern in the Outbursts of SS Cygni
 Undergraduate research project
 Supervised by Prof. Gregory Sivakoff

Teaching Experience

- JAN 2018 – MAR 2018 Marker for undergraduate astronomy course
University of Alberta
- SEPT 2017 – DEC 2017 Teaching assistant for graduate stellar astrophysics course
University of Alberta
- JAN 2017 – MAR 2017 Volunteer at the University of Alberta observatory
University of Alberta
- SEPT 2016 – DEC 2016 Teaching assistant for graduate stellar astrophysics course
University of Alberta
- SEPT 2015 – APR 2016 Teaching assistant for second year physics lab
University of Alberta

Publications

- In Prep Population Studies of Low Mass X-ray Binaries
Van, K. X., Ivanova, N. et al.
- 2017 Formation of Black Hole X-Ray Binaries With Non-Degenerate Donors in Globular Clusters
Ivanova, N.; da Rocha. C.A.; *Van, K. X.*; Nandez, J.L.A
Astrophysical Journal Letters
- 2017 Stability of mass transfer from massive giants: double black-hole binary formation and
ultra-luminous X-ray sources
Pavlovskii, K.; Ivanova, N.; Belczynski, K.; *Van, K. X.*
Monthly Notices of the Royal Astronomical Society

Presentations and Talks

- 2018 “Low Mass X-ray Binaries: Population at Roche Lobe Overflow”
22 May 2018 - 26 May 2018, Victoria, Canada, poster
- 2017 “Low Mass X-ray Binaries: Population at Roche Lobe Overflow”
30 May 2017 - 1 June 2017, Edmonton, Canada, poster
- 2017 “Stability of Mass Transfer from Massive Giants”
20 March 2017 - 24 March 2017 Santa Barbara, USA, poster
- 2016 “Population Study of LMXBs Using Standard Magnetic Braking in MESA”
23 Sept 2016, Edmonton, Canada, talk
- 2016 “Stability of Mass Transfer from Massive Giants”
24 July 2016 - 30 July 2016, Cambridge, England, poster presentation

Conferences and Workshops

MAY 2018 CASCA (Victoria, Canada)

MAY 2017 CASCA (Edmonton, Canada)

SPRING 2017 The Mysteries and Inner Workings of Massive Stars (Santa Barbara, USA)

JULY 2016 Binary Stars in Cambridge (Cambridge, England)