

Mario G. Ivanov

MASTER'S ASTROPHYSICS STUDENT

CCIS 3-137, University of Alberta, Edmonton, AB

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Education

MASTER OF SCIENCE IN PHYSICS

MAJOR: ASTROPHYSICS

ADVISORS: GREG SIVAKOFF & RODRIGO FERNÁNDEZ

SEP 2018 – PRESENT

University of Alberta

BACHELOR OF SCIENCE WITH HONOURS

MAJOR: ASTROPHYSICS WITH FIRST CLASS HONOURS

SEP 2015 – JUN 2018

University of Alberta

DIPLOMA IN DENTAL HYGIENE

SEP 2011 – JUN 2015

University of Alberta

Skills

LANGUAGES Python, Fortran, LaTeX, MATLAB, Java, HTML, CSS

SOFTWARE FLASH, GR1D, MESA, VisIt, CIAO

OTHER MCMC (Monte Carlo), HPC (Compute Canada), Python Parallelization

Research

(X-ray Observations)

Graduate advisor: Greg Sivakoff

SEP 2018 - PRESENT

University of Alberta

(Stellar Collapse Calculations)

Graduate advisor: Rodrigo Fernández

SEP 2018 - PRESENT

University of Alberta

The X-ray Emissivity of Low-Density Stellar Populations

Undergraduate supervisor: Craig Heinke

MAY 2017 - PRESENT

University of Alberta

Upgrading the Undergraduate Physics Labs

Undergraduate supervisor: Mark Freeman

MAY 2016 – APR 2017

University of Alberta

Publications

The X-ray Emissivity of Low-Density Stellar Populations

C. O. Heinke, **M. G. Ivanov**, E. W. Koch, et al.

JAN. 2020

Monthly Notices of the Royal Astronomical Society

Presentations & Talks

“The X-ray Emissivity of Low Density Stellar Populations”

CASCA 2019 Poster

APS April Meeting 2019 Speaker

SEDS Ascension 2019 Conference Speaker

University of Alberta 2017 Summer Research Poster

Montreal, QC

Denver, CO

Edmonton, AB

Edmonton, AB

“Are We Alone in the Universe?”

Under the Stars 2017 Keynote Speaker

Bon Accord, AB

Employment

Self-Employed Physics & Math Tutor

SEP 2015 - PRESENT

Registered Dental Hygienist

SEP 2015 - JUN 2018
Southwest Smiles Dental Clinic

Casino Games Dealer

SEP 2012 - OCT 2015
St. Albert Century Casino

Academic Tutor

OCT 2013 - SEP 2015
SU Tutors, University of Alberta
Tutor Doctor, Edmonton

Teaching Experience

Volunteer at the University of Alberta Observatory

SEP. 2015 – PRESENT
University of Alberta

Graduate Physics Teaching Assistant

SEP. 2018 – MAY 2019
University of Alberta

President of Science Hackerspace Student Group

AUG. 2016 – MAY 2018
University of Alberta

Ex-Alta 2 Communications Team Member

DEC. 2016 – DEC. 2017
AlbertaSAT

Honors & Awards

Jason Lang Scholarship – For academic achievement based on GPA

2012, 2013, 2017

Helen Tkachenko Prize – For outstanding achievement in the Russian language

2013

Academic Excellence Scholarship – For superior academic achievement

2011

Conferences & Workshops

CASCA (Canadian Astronomical Society)

JUN. 2019

Montreal, QC

MAY 2017

Edmonton, AB

WestGrid Research Computing Summer School

MAY 2019

Calgary, AB

APS (American Physical Society)

APR. 2019

Denver, CO

SEDS (Students for the Exploration and Development of Space) Ascension

MAR. 2019

Edmonton, AB