

Vedran Jelic

CURRICULUM VITÆ

Nationality: Canadian

Date of Birth: June 22, 1989

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EDUCATION

University of Alberta, Edmonton, Canada Ph.D. in Physics 09/2012 – 11/2018

University of Alberta, Edmonton, Canada B.Eng. in Engineering Physics 09/2007 – 04/2012

RESEARCH EXPERIENCE

Post-Doctoral Researcher 11/2023 – Present

National Research Council Canada, Ottawa, Canada

High harmonic generation and spectroscopy of quantum materials

Advisor: Prof. Giulio Vampa

Post-Doctoral Researcher 12/2018 – 10/2023

Michigan State University, East Lansing, United States of America

Terahertz tunneling microscopy and spectroscopy of quantum materials at the atomic scale

Advisor: Prof. Tyler L. Cocker

Ph.D. in Physics 09/2012 – 11/2018

University of Alberta, Edmonton, Canada

Imaging ultrafast dynamics on the atomic scale with a terahertz scanning tunneling microscope

Advisor: Prof. Frank A. Hegmann

B.Eng. in Engineering Physics 09/2007 – 04/2012

University of Alberta, Edmonton, Canada

Modeling tunnel currents in terahertz scanning tunneling microscopy

Thesis Advisor: Prof. Frank A. Hegmann

Undergraduate Summer Research 05/2012 – 08/2012

University of Alberta, Edmonton, Canada

Solutions to the double-well potential in quantum mechanics

Advisor: Prof. Frank Marsiglio

Undergraduate Summer Research 05/2011 – 08/2011

University of Alberta, Edmonton, Canada

Terahertz scanning tunneling microscopy in ambient conditions

Advisor: Prof. Frank A. Hegmann

Dean's Research Award 09/2010 – 04/2011

University of Alberta, Edmonton, Canada

A dual-channel X-ray spectrometer for fast ignition research

Advisor: Prof. Robert Fedosejevs

Undergraduate Summer Research 05/2010 – 08/2010

University of Alberta, Edmonton, Canada

Compact instrument for K-alpha spectroscopy of Fe, Cu, Ag, Ti

Advisor: Prof. Robert Fedosejevs

AWARDS AND FUNDING

Best Poster Presentation 11/2021

At the 756th Wilhelm und Else Heraeus Seminar in Bad Honnef, Germany.

Faculty of Science Doctoral Dissertation Award 06/2019

University of Alberta doctoral dissertation recognized by external reviewers and the student's evaluation committee that exemplifies the values of the faculty and contributes to knowledge at national and international levels.

NSERC Postgraduate Scholarship 09/2015 – 08/2017

Natural Sciences and Engineering Research Council of Canada award for high caliber scholars engaged in a science or engineering doctoral program at a Canadian university.
\$42,000 CAD over 24 months

Gerard T. Simon Award for Best Presentation 06/2016

At the Microscopical Society of Canada Annual Meeting in Edmonton, Canada.

Best Presentation 05/2015

At the Alberta Nanosymposium Annual Meeting in Banff, Canada.

Alberta Innovates Technology Futures Doctoral Graduate Scholarship 09/2013 – 08/2015

Alberta Innovates award for high caliber thesis-based students undertaking a full-time graduate program in Alberta with a focus on nanotechnology.
\$63,000 CAD over 24 months

Alberta Innovates Technology Futures Top-Up 09/2015 – 08/2016

Alberta Innovates provides additional financial support for students holding both an NSERC Postgraduate Scholarship and an AITF Doctoral Graduate Scholarship.
\$12,000 CAD over 12 months

Queen Elizabeth II Graduate Scholarship 09/2012 – 04/2013

Scholarship that rewards a high level of achievement for students pursuing graduate studies in Alberta.
\$10,800 CAD over 8 months

Excellence Award for Outstanding Research 05/2011

At the University of Alberta Undergraduate Research Symposium.
\$10,800 CAD over 8 months

PROFESSIONAL ACTIVITIES

Peer Review

Physical Review Letters
Physical Review B
Nature Photonics
Science Advances
ACS Photonics
ACS Nano
APL Materials
Optics Letters
Optics Express