

Alexander Safatli

WORK EXPERIENCE

CURRENT, FROM SEPTEMBER 2012

Teaching Assistant

Computer Science Courses — Learning Center

Working as a teaching assistant aiding in the marking and helping of students for an Informatics and Communications class, and helping students out in the faculty's help facility — *Dalhousie University*.

CURRENT, FROM JAN 2012

Research Assistant in Blouin Lab

Bioinformatics Research

Orchestrated work in different areas of bioinformatics. Helped construct helper scripts and libraries for geometric morphometric analyses of 3D protein structures, developed a Python implementation for 3D protein homology modelling, and is currently at hard work on an algorithm for detecting biologically significant landmarks in 2D images for the use of geometric morphometrics — *Dalhousie University*.

APRIL 2010 — SEPTEMBER 2010

Research Assistant in White Lab

Physical Materials Research

Helped write a journal article for the ASHRAE 2011 ANNUAL CONFERENCE on Solar Panels and the use of Phase Change Materials (PCMs) to store energy and the specific application of building a prototype of this sort of system for a local facility — *Dalhousie University*.

APRIL 2009 — SEPTEMBER 2009

Research Assistant in Wentzell Lab

Biochemometric Research

Helped write a great deal of programs and macros which aided in the finding of genetic motifs in DNA sequences, as well as evaluate statistical plots of findings — *Dalhousie University*.

COMMUNITY INVOLVEMENT

EXTRACURRICULAR Computer Science Society,
Dalhousie University,
Secretary — 2012,

SODALES Debating Society,
Dalhousie University,
Secretary — 2010

High School Student Council,
Treasurer — 2006-2008

VOLUNTEER Local Community Leader,
Turkey Drive Fundraiser, Halifax, NS — 2007

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EDUCATION

2008 — PRESENT Bachelor of Computer Science

Dean's List; Sexton Scholar
HONOURS
Dalhousie University

2008 High School Diploma

Halifax, Nova Scotia
HONOURS WITH DISTINCTION
J.L. Ilsley High School

AWARDS

2013 Undergraduate Research Award
Natural Sci. & Eng. Research Council

2012 Undergraduate Research Award
Natural Sci. & Eng. Research Council

2009 Undergraduate Research Award
Natural Sci. & Eng. Research Council

2008 — 2010 Renewable Entrance Scholarship
Dalhousie University

PAPERS & TALKS

CONFERENCES Honourable Mention at Dalhousie
In-House CS Conference — 2012

PAPERS *Automatic definition of homologous
shape descriptors for geometric
morphometric data* Alex Safatli,
José Sergio Hleap, Kyle Nguyen,
and Christian Blouin — 2012

*Reference matters: an efficient
and scalable algorithm for large
multiple structure alignment* Jose
S. Hleap, Alex Safatli, Khanh Nguyen,
and Christian Blouin — 2013