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Dr. Christian Blouin

Correspondence language: English

Sex: Male

Date of Birth: 7/09

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

Contact Information

The primary information is denoted by (*)

Address

Courier

Faculty of Computer Science
Dalhousie University
6050 University Ave
Halifax Nova Scotia B3H 5W1
Canada

Primary Affiliation (*)

Faculty of Computer Science
Dalhousie University
6050 University Ave
Halifax Nova Scotia B3H 5W1
Canada

Telephone

Fax	1-902-4941517
Home	1-902-4357680
Work (*)	1-902-4946702

Email

Work (*)	cblouin@dal.ca
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Website

Personal	http://www.cs.dal.ca/~cblouin/Blouin
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Dr. Christian Blouin

Language Skills

Language	Read	Write	Speak	Understand
English	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes

User Profile

Disciplines Trained In: Biochemistry

Research Disciplines: Computer Science, Biochemistry

Areas of Research: Evolution and Phylogenesis

Fields of Application: Foundations and Knowledge Acquisition

Research Specialization Keywords: Algorithms, biochemistry, bioinformatics, genomics, High performance comput., Machine Learning, molecular modeling, phylogenetics, protein, structure

Degrees

1997/5 - 2001/5 Doctorate, Doctorate of Philosophy, Biochemistry, Dalhousie University

Degree Status: Completed

Transferred to PhD without completing Masters?: Yes

Supervisors: Dr. Carmichael J.A. Wallace

1994/9 - 1997/5 Bachelor's, Bachelor of Science, Biochemistry, Université Laval

Degree Status: Completed

Supervisors: Dr. Lindsay D. Eltis

Recognitions

2015/3 Dalhousie Computer Science Society "Srini" award for excellence in teaching (2014).
(Canadian dollar)
Dalhousie University
Prize / Award

2013/12 Dalhousie Computer Science Society "Srini" award for excellence in teaching (Canadian dollar)
Dalhousie University
Prize / Award

2012/4 Dean's Teaching Excellence Award (Canadian dollar)
Dalhousie University
Prize / Award

Employment

2012/9 Faculty Associate
Centre for Learning and Teaching, Dalhousie University

2003/7 Professor
Computer Science, Dalhousie University

2001/5 Postdoctoral Fellow or Associate
Biochemistry and Molecular Biology, Dalhousie University

2016/7 - 2021/7 Associate Dean (Academic)
Dalhousie University

2015/7 - 2017/7 Senior Advisor, Curriculum Planning.
Provost's office, Dalhousie University

2015/7 - 2016/7 Associate Dean, Academic (interim)
Faculty of Computer Science, Dalhousie University

2001/4 - 2001/7 Consultant
MedMira

1994/4 - 1994/9 Summer Research Student
Centre de recherche du CHU de Québec

Affiliations

The primary affiliation is denoted by (*)

(*) 2003/7 Associate Professor, Dalhousie University

Research Funding History

Awarded [n=4]

2016/5 - 2021/4 Application of graph modularity inference to represent protein structures.
Principal Applicant

Funding Sources:

2016/4 - 2021/4 Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery GRant
Total Funding - 115,000 (Canadian dollar)
Funding Competitive?: Yes

2015/9 - 2017/8 Scotia Support Training Grant in Enzymology and Molecular Simulations.
Co-applicant

Principal Applicant : Stephen Bearne

Funding Sources:

2015/9 - 2017/8 Nova Scotia Health Research Foundation (NSHRF)
Scotia Support Grant
Total Funding - 50,000 (Canadian dollar)
Funding Competitive?: Yes

2010/4 - 2016/4 Exploring the Landscape of Phylogenies

Principal Applicant	<p>Funding Sources:</p> <p>2010/4 - 2016/4 Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant Total Funding - 125,000 (Canadian dollar) Funding Competitive?: Yes</p>
2010/9 - 2015/9 Co-applicant	<p>TULA foundation award through the Center for Genomics and Evolutionary Bioinformatics (2nd allowance)</p> <p>Co-applicant : Edward Susko;</p> <p>Co-investigator : Alastair Simpson; Claudio Slamowitz; Ford Doolittle; Joseph Bielawski; Michael Gray; Robert Beiko;</p> <p>Principal Applicant : Andrew Roger</p> <p>Funding Sources:</p> <p>2010/1 - 2015/1 Tula Foundation CGEB support Total Funding - 150,000 (Canadian dollar) Funding Competitive?: No</p>
Completed [n=1]	
2006/9 - 2014/5 Principal Applicant	<p>A Research Laboratory in Evolutionary Algorithms, Computational Biology and Computer Graphics.</p> <p>Co-investigator : Dirk Arnold; Stephen Books</p> <p>Funding Sources:</p> <p>2010/1 - 2015/1 Canada Foundation for Innovation (CFI) Infrastructure Operating Funds Total Funding - 60,000 (Canadian dollar) Funding Competitive?: Yes</p>

Student/Postdoctoral Supervision

Bachelor's [n=1]

Principal Supervisor Khan Nguyen (In Progress) , Dalhousie University (NSERC USRA)
Student Degree Start Date: 2011/9

Bachelor's Honours [n=3]

Principal Supervisor James Ryan (In Progress) , Dalhousie University
Student Degree Start Date: 2011/9
Student Degree Expected Date: 2015/12
Present Position: MSc Candidate

Co-Supervisor Tyler Brunet (Completed) , Dalhousie University
Student Degree Start Date: 2010/9
Student Degree Received Date: 2014/5
Present Position: PhD Candidate

Principal Supervisor Wilson Chan (Completed) , Dalhousie University
 Student Degree Start Date: 2008/9
 Student Degree Received Date: 2012/12

Master's Equivalent [n=1]

Co-Supervisor Sergio Ivan Castro (In Progress) , Universidad del Valles, Colombia.
 Student Degree Start Date: 2015/6
 Student Degree Expected Date: 2015/12
 Present Position: Teacher (Colombia)

Master's Thesis [n=5]

Principal Supervisor Jacklyn Purdue (In Progress) , Dalhousie University
 Student Degree Start Date: 2018/1
 Student Degree Expected Date: 2019/8
 Present Position: Candidate

Principal Supervisor Alexander Campbell (In Progress) , Dalhousie University
 Student Degree Start Date: 2016/1
 Student Degree Expected Date: 2019/5
 Present Position: Candidate

Co-Supervisor Tyler Brunet (Completed) , Dalhousie University
 Student Degree Start Date: 2014/9
 Present Position: Ph.D Candidate

Principal Supervisor Alexander Safatli (Completed) , Dalhousie University
 Student Degree Start Date: 2014/1
 Present Position: Software Engineer

Co-Supervisor Amin Syed Khalafvand (In Progress) , Dalhousie University
 Student Degree Start Date: 2013/1
 Present Position: Software Engineer

Doctorate [n=3]

Principal Supervisor Simiao Lu (In Progress) , Dalhousie University
 Student Degree Start Date: 2014/1
 Present Position: Candidate

Academic Advisor Jose Sergio Hleap (In Progress) , Dalhousie University
 Student Degree Start Date: 2010/5
 Student Degree Expected Date: 2015/10

Co-Supervisor Haibin Liu (Completed) , Dalhousie University
 Student Degree Start Date: 2006/9
 Student Degree Received Date: 2010/11

Research Associate [n=1]

Principal Supervisor Alexander Safatli (Completed) , Dalhousie University
 Student Degree Start Date: 2013/5
 Student Degree Received Date: 2008/9

Publications

Journal Articles

1. Hleap, JS, Blouin, C. (2018). The response to selection in Glycoside Hydrolase Family 13 structures: A comparative quantitative genetics approach. PLOS one. 13(4): 1-17.
Last Author
Published
Refereed?: Yes
Number of Contributors: 2

Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) - RGPIN/05414-2016
2. Castro SI*, Hleap JS*, Cárdenas H, Blouin C. (2015). Molecular organization of the 5S rDNA gene. RNA Biology. 13: 391-9.
Last Author
In Press
Refereed?: Yes
3. Hleap JS*, Blouin C. (2015). The Semantics of the Modular Architecture of Protein Structures. Current Protein & Peptide Science. 17: 62-71.
Last Author
In Press
Refereed?: Yes
4. Safatli A*, Blouin C. (2015). Pylogeny: an open-source Python framework for phylogenetic tree reconstruction and search space heuristics. PeerJ Computer Science. e9: na.
Last Author
Published
Refereed?: Yes
5. Kureshi N* , Abidi SS , Blouin C. (2014). A Predictive Model for Personalized Therapeutic Interventions in Non-small Cell Lung Cancer. IEEE journal of biomedical and health informatics. 20: 424-31.
Co-Author
Published
Refereed?: Yes
6. Hleap JS* , Blouin C. (2014). Inferring meaningful communities from topology-constrained correlation networks. PloS one. 9(11): e113438.
Last Author
Published
Refereed?: Yes
7. Liu, H.* , Kešelj, V., Blouin, C. (2014). EXPLORING A SUBGRAPH MATCHING APPROACH FOR EXTRACTING BIOLOGICAL EVENTS FROM LITERATURE. Computational Intelligence. 30(3): 600-635.
Co-Author
Published
Refereed?: Yes
Number of Contributors: 3

Conference Publications

1. Safatli A*, Blouin C. (2015). Application of Ant Colony Optimization for Mapping the Combinatorial Phylogenetic SearchSpace. 6th international conference on bioinformatics models, methods and algorithms
Poster
Last Author
Published, Invited?: No