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Dr. Christian Blouin

Correspondence language: English
Date of Birth: 7/09

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 (*)

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Dr. Christian Blouin

Degrees

1997/5 - 2001/5	Doctorate, Doctorate of Philosophy, Biochemistry, Dalhousie University Degree Status: Completed 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
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

2014/10 - 2014/10	External program reviewer Bioinformatics, Université de Montréal
2001/4 - 2001/7	Consultant MedMira
2001/1 - 2001/3	Instructor Biochemistry and Molecular Biology, Dalhousie University
1997/9 - 1999/12	Teaching Assistant Biochemistry and Molecular Biology, Dalhousie University
1996/3 - 1996/9	Research Assistant Biochimie (Fac. sc. et génie), Université Laval
1995/5 - 1995/9	Summer Research Student Sciences Animales, Université Laval
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

Leaves of Absence and Impact on Research

2012/12 - 2013/9	Medical, Dalhousie University Diagnosed and treated for advanced-stage (IIIb) Hodgkin's Lymphoma from Dec 2012 to Sept 2013. Professional activities impacted for up to 1.5 years (mid-2011 onward) prior while I was misdiagnosed. I returned on a gradual basis in the fall of 2013 after chemotherapy. Complete return to work in Spring 2014. During treatment, I assigned co-supervisors to some students and refrained from recruiting new trainees.

Research Funding History

Awarded [n=4]

Principal Applicant — Application of graph modularity inference to represent protein structures.

Funding Sources:

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

Co-applicant — Scotia Support Training Grant in Enzymology and Molecular Simulations.

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

Principal Applicant — Exploring the Landscape of Phylogenies

Funding Sources:

2010/4 - 2016/4 Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant
Total Funding - 125,000 (Canadian dollar)
Funding Competitive?: Yes

Co-applicant

TULA foundation award through the Center for Genomics and Evolutionary Bioinformatics (2nd allowance)

Co-applicant : Edward Susko;

Co-investigator : Alastair Simpson; Claudio Slamowitz; Ford Doolittle; Joseph Bielawski; Michael Gray; Robert Beiko;

Principal Applicant : Andrew Roger

Funding Sources:

2010/1 - 2015/1 Tula Foundation
CGEB support
Total Funding - 150,000 (Canadian dollar)
Funding Competitive?: No

Completed [n=3]

Principal Applicant

A Research Laboratory in Evolutionary Algorithms, Computational Biology and Computer Graphics.

Co-investigator : Dirk Arnold; Stephen Books

Funding Sources:

2010/1 - 2015/1 Canada Foundation for Innovation (CFI)
Infrastructure Operating Funds
Total Funding - 60,000 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator

TULA foundation award through the Center for Genomics and Evolutionary Bioinformatics

Co-investigator : Alastair Simpson; Claudio Slamowitz; Edward Susko; Ford Doolittle; John Archibald; Joseph Bielawski; Michael Gray; Robert Beiko;

Principal Applicant : Andrew Roger

Funding Sources:

2008/9 - 2012/9 Tula Foundation
CGEB support
Total Funding - 150,000 (Canadian dollar)
Funding Competitive?: No

Principal Investigator

Phylogenetics and the emergence of structural...

Principal Investigator : Christian Blouin

Funding Sources:

2005/5 - 2010/5 Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery
Total Funding - 119,500 (Canadian dollar)
Funding Competitive?: Yes

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
Co-Supervisor	Tyler Brunet (Completed) , Dalhousie University Student Degree Start Date: 2010/9 Student Degree Received Date: 2014/5
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) , Universitad del Valles, Colombia. Student Degree Start Date: 2015/6 Student Degree Expected Date: 2015/12 Present Position: Teacher (Colombia)

Master's Thesis [n=3]

Co-Supervisor	Tyler Brunet (In Progress) , Dalhousie University Student Degree Start Date: 2014/9
Principal Supervisor	Alexander Safatli (Completed) , Dalhousie University Student Degree Start Date: 2014/1
Co-Supervisor	Amin Syed Khalafvand (In Progress) , Dalhousie University Student Degree Start Date: 2013/1

Doctorate [n=3]

Principal Supervisor	Simiao Lu (In Progress) , Dalhousie University Student Degree Start Date: 2014/1
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. Castro SI*, Hleap JS*, Cárdenas H, Blouin C.(2015). Molecular organization of the 5S rDNA gene. RNA Biology.
   Last Author
   In Press
   Refereed?: Yes
2. Hleap JS*, Blouin C. (2015). The Semantics of the Modular Architecture of Protein Structures.Current Protein & Peptide Science.
   Last Author
   In Press
   Refereed?: Yes
3. Safatli A*, Blouin C.(2015). Pylogeny: an open-source Python framework for phylogenetic tree reconstruction and search space heuristics. PeerJ Computer Science. e9
   Last Author
   Published
   Refereed?: Yes
4. 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.
   Co-Author
   Published
   Refereed?: Yes
5. Hleap JS* , Blouin C. (2014). Inferring meaningful communities from topology-constrained correlation networks.PloS one. 9(11): e113438.
   Last Author
   Published
   Refereed?: Yes
6. 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
7. Hleap JS* , Susko E , Blouin C. (2013). Defining structural and evolutionary modules in proteins: a community detection approach to explore sub-domain architecture.BMC structural biology. 13: 20.
   Last Author
   Published
   Refereed?: Yes

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

2. Lui H*, Blouin C, Keselj V. (2012). Subgraph Matching-Based Literature Mining for Biomedical Relations and Events. Information Retrieval and Knowledge Discovery in Biomedical Text
   Paper
   Co-Author
   Published

3. Hleap JS*, Blouin C. (2012). The evolutionary modules round rays, foxes and the TIM-barrel of α-amylase: modularity as evolutionary integration.First Joint Congress on Evolutionary Biology
   Poster
   Last Author
   Published

4. Hleap JS*, Blouin C. (2012). Significant clustering on geometric morphometrics data: defining evolutionary modules in complex biological datasets.Society for Molecular Biology and Evolution
   Abstract
   Last Author
   Published

5. Hleap JS*, Blouin C. (2012). Defining evolutionary modules in protein structures.3DSIG 2011: The 7th Structural Bioinformatics and Computational Biophysics Meeting
   Paper
   Last Author
   Published