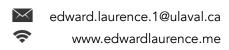
EDWARD LAURENCE



EDUCATION

2016 - [2019] Ph.D. in Physics, Université Laval

Resilience of neural networks

Supervisors: Pr Louis J. Dubé, and Pr Patrick

Desrosiers

2014 - 2016 M.Sc. in Physics, Université Laval

Supervisors: Pr Louis J. Dubé, Pr Patrick

Desrosiers, and Pr Daniel Côté

2011 - 2014 B.Sc. in Physics, Université Laval

Summer schools

2017 Mediterranean School of Complex Networks

Sicily, Italy

2017 Summer school of CINQ/RBIQ on the brain

connectivity: from theory to applications

Québec, Canada

WORK EXPERIENCE

2017 Self-employed | Analysis

Analysis and visualization of the collaborations

Sentinel North, Université Laval

2014 - 2017 Teaching assistant, Université Laval

Correction & Answering questions

Non-linear dynamics, chaos and complexity

Numerical physics Statistical physics

2013 Undergraduate research assistant

Dynamica research group, Université Laval under the supervision of Pr. Louis J. Dubé

ENTREPRENEURSHIP

Cofounder of Serum

Web plugin to detect fake news.

Developed in 48 hours. Bayesian inference of fake news.

Available on Chrome store.

www.factserum.co

2017

Cofounder of Wasper

iOS applications for delivery. Available on TestFlight.

www.wasper.co

2015 -

Cofounder of Stepic

iOS application Geolocation of photos. Available on TestFlight.

2014 - 2015

VOLUNTEERING AND INVOLVEMENT

Violinist in palliative care

Hôpital Saint François d'Assise 2015 - 2016

Tutor in science

Cégep Garneau 2009 - 2014

LANGUAGES

French > Native English > Advanced Spanish > Basic

AWARDS

2017 - [2019]	Graduate research award Fond de recherche Nature et technologies (FRQNT) 20 000\$/year
2017 - [2019]	Sentinel North fellowship Sentinel North, Université Laval
2017	Travel Scholarship to Mediterranean School of Complex Network Sentinel North, Université Laval
2017	Byron-T. Darling scholarship Département de physique, de génie optique et d'optique, Université Laval 5 000\$
2015 - 2016	Graduate research award Fond de recherche Nature et technologies (FRQNT) 15 000\$
2015	Business ideas contest (for Wasper) Entreprenariat ULaval 100\$
2012	Undergraduate research award Natural Sciences and Engineering Research Council of Canada (NSERC) 4 500\$
2011	Franco-Rasseti scholarship Département de physique, de génie optique et d'optique, Université Laval 1 000\$
Recognition	
2014	Outstanding Poster Award 9th International School and Conference on Network Science, Berkeley
2012	Best oral in geophysics Canadian Undergraduate Physics Conference, Vancouver
2010 - 2014	Participation to Quebec's semi-final Le Championnat International des Jeux Mathématiques et Logiques

SCIENTIFIC CONTRIBUTIONS

Papers in refereed journals

- 2017 Finite size analysis of the detectability limit of the stochastic block model J.-G Young, P. Desrosiers, L. Hébert-Dufresne, E. Laurence, and L. J. Dubé Phys. Rev. E 95, 062304 (2017)
- 2015 Complex networks as an emerging property of hierarchical preferential attachment L. Hébert-Dufresne, E. Laurence, A. Allard, J.-G. Young, and L. J. Dubé Phys. Rev. E., 92 062809
- 2014 Relationship between surface temperature and extreme rainfalls: a multi-timescale and event-based analysis

G. Panthou, A. Mailhot, **E. Laurence**, and G. Talbot, J. Hydrometeor., **15**, 2014, DOI: 10.1175/JHM-D-14-0020.1

Preprint

- 2017 Exact analytical solution of irreversible binary dynamics on networks E. Laurence, J.-G. Young, S. Melnik, and L. J. Dubé arXiv, 1711.02721
- 2017 Geometric evolution of complex networks
 C. Murphy, A. Allard, E. Laurence, G. St-Onge, and L. J. Dubé
 arXiv, 1710.01600
- 2017 Susceptible-infected-susceptible dynamics on the rewired configuration model G. St-Onge, J.-G. Young, E. Laurence, C. Murphy, and L. J. Dubé arXiv, 1701.01740

Selected conferences

The speaker noted in bold

- 2017 Mediterranean School of Complex Networks, Salina (Sicile)
 An effective approach to resilience of complex networks
 E. Laurence, P. Desrosiers, N. Doyon, and L. J. Dubé
- 2017 12th International School and Conference on Network Science, Indianapolis (USA) Functional resilience in dynamical complex networks with adaptive connectivity **E. Laurence**, P. Desrosiers, N. Doyon, and L. J. Dubé

Persistent activity of neural dynamics on hierarchical networks **E. Laurence**, P. Desrosiers, and L. J. Dubé

- 2016 11th International School and Conference on Network Science, Seoul (Korea)
 Time-dependent Spatial Growth of Complex Networks
 C. Murphy, E. Laurence, G. St-Onge, J.-G. Young, and L. J. Dubé
- 2015 10th International School and Conference on Network Science, Saragosse (Spain) Exact analytical solution of binary dynamics on networks
 E. Laurence, J.-G. Young, S. Melnik, and L. J. Dubé

TECHNOLOGY SKILLS

Programming

Swift, C/C++, Python, Javascript, Objective-C, Ruby, R, GNU/Linux, LaTeX

Selected frameworks

D3js , NodeJS (express, passport, chai, mongoose), CocoaPods, Alamofire, SwiftyJSON, FacebookPop, FBSDLoginKit, GoogleMaps, Bootstrap, Django, I18n

Developing tools & Cloud services

Github, Xcode, iTunes Connect, Heroku, Openshift, Amazon AWS, Chrome Store, Inkscape, Sublime Text