Colin David Conrad
Curriculum Vitae

Dalhousie University
Rowe School of Business, Room 5112
Kenneth C. Rowe Management Building
6100 University Avenue
Halifax, NS, B3H 4R2, Canada

office phone: (902) 494-7042
email: colin.conrad@dal.ca
website: http://colinconrad.com

EDUCATION

2019
(expected)
Ph.D. in Interdisciplinary Studies, Dalhousie University
Thesis: Neurophysiological Indicators of Attention During Online Lectures
Supervisors: Dr. Aaron Newman, Dr. Michael Bliemel, and Dr. Vlado Keselj

2015
Master of Electronic Commerce, Dalhousie University
Thesis: Predicting Political Donations using Data Driven Lifestyle Profiles
Generated from N-Gram Analysis of Heterogeneous Online Sources.
Supervisor: Dr. Vlado Keselj

2011
Master of Arts in Philosophy, Queen's University
Research Project: Making Sense of Moral Relativism
Supervisor: Dr. David Bakhurst

2010
Bachelor of Arts (Honours), Dalhousie University
Research Project: Manufactured Conventions
Supervisor: Dr. Duncan Macintosh

ACADEMIC APPOINTMENTS

2018-2019
Lecturer (limited term), Rowe School of Business, Dalhousie University, Halifax, NS, Canada

2015-2018
Lecturer (adjunct), Faculty of Computer Science, Dalhousie University, Halifax, NS, Canada

PUBLICATIONS

Published Journal Articles

Conrad, C., Bliemel, M., & Ali-Hassan, H. (forthcoming, 2019). The Role of Flow in Learning Distributed Computing and MapReduce Concepts using Hands-On Analogy. *Journal of Information Systems Education 30*(1).

Published Conference Proceedings

Conrad, C. and Newman, A. (2019). Measuring the Impact of Mind Wandering in Real Time Using an Auditory Evoked Potential. In *Information Systems and Neuroscience* (pp. 37-45). Springer.

Conrad, C. and Newman, A. (2019). How Attention Networks Can Inform Research in Information Systems. In *Information Systems and Neuroscience* (pp. 155-162). Springer.

Jankowska, M, Conrad, C., Harris, J. & Keselj, V. (2018). Combined N-gram and Semantic Approach to Assignment Feedback Analysis and Generation. In *Advances in Artificial Intelligence: 31st Canadian Conference on Artificial Intelligence, Canadian AI.* Springer.

Conrad, C., & Bliemel, M. (2016). Psychophysiological Measures of Cognitive Absorption and Cognitive Load in E-Learning Applications. In *Proceedings of the 2016 International Conference on Information Systems*.

Conrad, C., Ali, N., Gao, Q. & Keselj, V, (2016). ELM: An Extended Logic Matching Method on Record Linkage Analysis of Disparate Databases for Profiling Data Mining. In *Proceedings of the 18th IEEE Conference on Business Informatics*. IEEE.

Conrad, C., & Keselj, V. (2016). Predicting Political Donations Using Twitter Hashtags and Character N-Grams. *Proceedings of the 18th IEEE Conference on Business Informatics*. IEEE.

Refereed Conference Presentations (without proceedings)

Conrad, C., Ali-Hassan, H. and Bliemel, M. (2015). Hadoop Hands On: Teaching MapReduce to Business Students through Analogy. 2015 Americas Conference on Information Systems Big Data and Analytics EdCon.

Non-refereed Publications and Presentations

Charlebois, S., Harris, J., Tyedmers P., Bailey, M., Keselj, V., Conrad C., Grant G., Somogyi, S., Chamberlain, S. (2017). *Canada's Food Price Report 2017*. Dalhousie University.

Conrad, C. Measuring Mind Wandering During Human-Computer Interactions (2018). *2018 Dalhousie Computer Science Inhouse Conference*. Dalhousie University

Conrad, C. Psychophysiological Measures of Cognitive Absorption and Cognitive Load in E-Learning Applications (2016). *2016 Dalhousie Computer Science Inhouse Conference.* Dalhousie University.

Research in Progress

Conrad, C. and Newman, A. (submitted). Neural markers of mind wandering during online learning sessions. Poster submitted to Annual Meeting of the Cognitive Neuroscience Society

Conrad, C., Newman, A. and Bliemel, M. (draft complete). A Real-time EEG Measure of Mind Wandering during E-Learning. Submitted to *ACM DATABASE for Advances in Information Systems*, winter 2019.

Beaubien, L. and Conrad, C. (paper being written). Simplified Web Models for Clinical Applications. Targeting *Journal of the American Medical Informatics Association*, winter 2019.

Kosmajac, D., Ghazizadeh, G., Taylor, S., Conrad, C., Keselj, V. and Matwin, S. (research in progress). A Twitter Alerting System for Canadian Election Security. Targeting *32nd Canadian Conference on Artificial Intelligence (Canadian AI)*, winter 2019.

Conrad, C., Newman, A., Chiles, T., and Sproul, A. (early stage) How to use MNE Python to analyze EEG data and conduct real-time analysis. Targeting *2019 NeuroIS Retreat*, winter 2019.

Conrad, C., Newman, A. and Bliemel, M. (paper being written). The Effect of Mind Wandering in Online Education. Targeting *Journal of the Association for Information Systems*, summer 2019.

Conrad, C., Newman, A. (early stage). An Attention-Adaptive Brain Computer Interface for Massive Open Online Courses. Targeting *ACM Conference on Human Factors in Computing Systems (CHI)*, fall 2019.

AWARDS AND HONOURS

2017	Killam Scholarship (Doctoral), Dalhousie University, Halifax, NS, Canada. $30 000 annual scholarship syndicated with NSERC.
2016	Post-Graduate Scholarship (Doctoral), Natural Sciences and Engineering Research Council of Canada, Ottawa, ON, Canada. Value $21 000 annual scholarship.
2016	President's Award, Dalhousie University, Halifax, NS, Canada. $9 000 scholarship.
2015	Nova Scotia Research and Innovation Graduate Scholarship Dalhousie University, Halifax NS, Canada. Value: $15 000 annual scholarship.
2014	Faculty of Graduate Studies Scholarship, Dalhousie University, Halifax NS, Canada. Value: $1 400 scholarship.

2013	First Prize, Halifax Startup Weekend 2013, Halifax NS, Canada. $10 000 business capital and in-kind.
2011	Queen's Graduate Scholarship, Queen's University, Kingston ON, Canada $18 000 scholarship.
2006-2010	Dean's List, Dalhousie University, Halifax, NS, Canada. Awarded on multiple occasions between September 2006 and May 2010.
2006	L.A. & Edith Upham Scholarship, Dalhousie University, Halifax, NS, Canada. $5000 annual scholarship.

TEACHING EXPERIENCE

Graduate Courses

2018	ECMM 6020 – Business Issues in Electronic Commerce, Faculty of Management, Dalhousie University.
2015-2017	ECMM 6000 – Overview of Electronic Commerce, Faculty of Computer Science, Dalhousie University.

Undergraduate Courses

2018-2019	COMM 3511 – Management Information Systems, Rowe School of Business, Dalhousie University.

Teaching Assistantships

2017	Rapid Programming Techniques for Innovation (Computer Science), Dalhousie University
2016	Data Mining and Visualization (Business Administration), Dalhousie University
2014	Overview of Electronic Commerce (Computer Science), Dalhousie University
2014	Starting Lean (Business Administration), Dalhousie University
2013	Technology and the Environment (Philosophy), Dalhousie University
2012	Legal Thinking (Philosophy), Dalhousie University

2011	Ethical and Social Issues in Computer Science (Philosophy), Dalhousie University
2011	Philosophy of Education (Philosophy), Queen's University
2010	Existentialism (Philosophy), Queen's University

RESEARCH EXPERIENCE

Research Assistantships

2017	Dalhousie Natural Language Processing Group – NSERC Engage with D2L Inc. to produce an automated grading solution.
2017	Launch Dal – Content edited Pearson's *Management 12th Canadian Edition*.
2016	Dalhousie Natural Language Processing Group – NSERC Engage with QRA Inc. to produce a solution to document quality analysis.
2015	Launch Dal – Content edited Pearson's *Management 11th Canadian Edition*.
2014	Dalhousie Natural Language Processing Group – NSERC Engage with iWave Information Systems Inc. to produce a solution to charitable giving prediction.
2013	Dalhousie Natural Language Processing Group – NSERC Engage with LeadSift Inc. to produce a solution to psychographic profiling on social media.

ACADEMIC SERVICE

Conference Reviews

2018	Canadian Council for Small Business and Entrepreneurship (CCSBE) 2018
2018	18th ACM Symposium on Document Engineering (DocEng)
2017-2018	Americas Conference on Information Systems (AMCIS)

Service at Dalhousie University

2015-2018	Mentor, Norman Newman Centre for Entrepreneurship
2017	Coordinator, Shiftkey Labs Django Hackathon
2017	Instructor, Shiftkey Labs Summer Internship Program

| 2016 | Recruitment Initiative Coordinator, Master of Electronic Commerce Program |

COMMUNITY OUTREACH

2014-2019	Member, Global Shapers Community (World Economic Forum)
2018	Project Co-Chair, Nova Scotia International Entrepreneurship Competition
2017-2018	Treasurer, IDPhD Student Society, Dalhousie University
2017	Project Co-Chair, Immigrant Women Entrepreneur Showcase, Halifax, Canada
2017	Volunteer Coordinator, ACM SIGKDD 2017 Conference
2016	Conference Co-Chair, Dalhousie Computer Science Inhouse Conference (DCSI)
2015	Finalist, ERPsim World Competition
2014-2015	Student Representative, Dalhousie Faculty of Computer Science Dean Search Committee
2014	Master of Electronic Commerce Representative, Dalhousie Computer Science Graduate Society
2014	Participant, Launch Dal Summer startup accelerator
2014	Mentor, Junior Achievement Company Program
2007-2010	Treasurer and VP External, Dalhousie Undergraduate Philosophy Society

OTHER TRAINING

2018	Dalhousie University Interdisciplinary PhD Public Scholars Training Program
2017	NeuroIS Retreat Training Course
2016	ERPsim Certified Instructor (Level 1)
2016	Propel ICT Launch Startup Accelerator Program
2015	SAP HANA Native Application Development Workshop (SAP UA)

NON-ACADEMIC WORK EXPERIENCE

2014-2018   Principal, Innovate UI (IT management and web development consulting)

Related Professional Skills

Brain Products actiCHamp EEG Systems

Python (Django, Scikit-Learn, MNE, NLTK, NumPy, Pandas, PsychoPy, Jupyter)

R (RStudio)

JavaScript (JQuery, D3)

SAP technologies (Hana, OpenUI, Fiori, Lumira, Predictive Analytics, Business Objects)

PROFESSIONAL MEMBERSHIPS

Association for Information Systems (AIS)

SAP University Alliances

Canadian Artificial Intelligence Association (CAIAC)

REFERENCES

Available upon request.