Jonathan St-Onge

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University Education

2021-present **PhD in Complex Systems and Data Science**, *University of Vermont*, Burlington, Vermont, United States

2018–2020 **M.A in Philosophy and cognitive science**, *Université du Québec à Montréal (UQAM)*, Montreal
Title: The Emergence of Hydrid Modeling Practices

2015–2017 **B.A. in Psychology (Behavioural Neuroscience, Cognition and Quantitive Methods)**, *McGill University*, Montreal

2012–2015 **B.A. in Philosophy**, *University of Montreal (UdeM)*, Montreal

Academic Experience

2020–2021 **Internship CMB Computational social science team**, *Centre Marc Bloch*, Berlin, Germany
- Using word topic modeling and sentence transformer models in conjunction with networks to study socio-semantic confinement in digital public space
- Working with the Twitter API and AllanAI's S2ORC database to develop an empirical case study.

2019–2020 **Research Assistant**, *Centre interuniversitaire de recherche sur la science et la technologie*, Montreal, Canada
- Conducted various end-to-end projects in computational social sciences for professors
- Training in data science methods including webscraping and data mining, data cleaning and visu- alization, machine learning, network theory and natural language processing
- Presentation of one of our projects at an international conference (INSNA) as first author
- Organization of digital humanities workshops to teach computer skills to members of the research center

2018–2020 **Research Assistant at Canada Research Chair in Philosophy of the Life Sciences**, *UQAM*, Montreal, Canada
- Conducted various end-to-end projects in computational social sciences for professors
- Training in data science methods including webscraping and data mining, data cleaning and visualization, machine learning, network theory and natural language processing
- Presentation of one of our projects at an international conference (INSNA) as first author
- Organization of digital humanities workshops to teach computer skills to members of the research center

Publications

Peer-reviewed

2022 **Socio-semantic networks as mutualistic networks.**
St-Onge J., Renaud-Desjardins L., Mongeau P., Saint-Charles J.
Scientific Report

2022 **Quoting is not Citing: Disentangling Affiliation and Interaction on Twitter**
Roth C., **St-Onge J.**, Herms K.
COMPLEX NETWORKS 2021: Complex Networks & Their Applications X

2020 **Eight journals over eight decades: a computational topic-modeling approach to contemporary philosophy of science.**
Malaterre C., Lareau F., Pulizzoto D., **St-Onge J.**
Synthese

Presentations and poster

2020 **Presentation on sociosemantic networks as mutualistic networks**, *2020 International Network for Social Network Analysis (ISNA)*, Paris, France (virtual)

2019 **Poster presentation at the 3rd Annual Workshop on cultural evolution and social learning research**, *Max Planck Institute for Evolutionary Anthropology*, Leipzig, Germany

2019 **Presentation on "L'IA, un dialogue possible?" (AI, an Impossible Dialogue?)**, *l'Association francophone pour le savoir (ACFAS)*, Hull, Canada

2018 **Presentation on Multiscale Thinking, the Bayesian Brain, and the Free Energy principle.**, *Montreal's Cognitive Science Day (3rd edition)*, Montreal, Canada

Honours and Awards

2022–2023 **Graduate Research Assistant**, *University of Vermont-Google Open-Source Complex Ecosystems and Networks (OCEAN) project*, 30 000$

2020 **Serge Robert's Scholarship for studying the cognitive sciences and reasoning**, 1500$

2020 **Faculty of Arts and Social Sciences Graduate Scholarship**, 2000$

2018 **Canada Research Chair in Philosophy of the Life Sciences' Scholarship**, 5000$

2017 **Bachelor in Behavioral Neuroscience at McGill completed with Distinction**

Language, Statistics and Programming skills

Natural language
- French
- Engish

Software and modeling tools
- R, Python, Julia, and some Javascript
- Bayesian Data Analysis, Network theory, and Complex Systems
- Webscraping