

# JONATHAN ST-ONGE

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## RESEARCH INTERESTS

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During my undergraduate training I studied a wide diversity of subjects spanning Philosophy, Anthropology, History of Science, Earth Science, and Behavioral Neuroscience.

In my Master's training, I undertook a methodological turn towards the emerging field of computational social sciences. Under the supervision of Prof. Christophe Malaterre, I have extensively used computational tools to study the evolution of models in the field of ecology. I conducted a rigorous analysis of evolution modeling practices using topic modeling, word embedding, and graph analysis. At the same time, as a research assistant at the Interuniversity Research Center on Science and Technology, I had the opportunity to work on end-to-end projects in the computational social sciences. This provided me with additional training to develop tools at the intersection of Bayesian modeling, network theory, and natural language processing.

## UNIVERSITY EDUCATION

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### Université du Québec à Montréal

*01/2018 - 09/2020*

Master in Philosophy; Concentration in Cognitive Sciences  
Department of Philosophy

### McGill University, Montreal

*2015 - 2017*

B.A in Behavioural Neuroscience  
Minor in Social Studies of Medicine

GPA: 3.71/4

### University of Montreal

*2012 - 2015*

B.A in Philosophy

## ACADEMIC EXPERIENCE

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### Internship at the Centre Marc Bloch

*07/2020 - today*

- 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.

### Research Assistant at the Centre interuniversitaire de recherche sur la science et la technologie

*04/2019 - 07/2020*

- 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

### Canada Research Chair in Philosophy of the Life Sciences, Université du Québec à Montréal

Supervision: Prof Christophe Malaterre

*11/2018 - 07/2020*

- Acquisition of large corpora in philosophy of science
- Applying unsupervised methods to over 75 years of text data to conduct a data-driven experiment on the history of philosophy of science

**Member of Ithaque, the Journal of Philosophy of the University of Montreal**     *2014-2015*

- Reviewing, editing, and providing critical comments on submitted articles

## MEMBERSHIPS

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<b>Member</b> , Computational Social Science Team at Centre Marc Bloch	<i>08/2020 - present</i>
<b>Member</b> , Laboratory Philosophy of Science	<i>03/2018 - 08/2020</i>
<b>Member</b> , Centre interuniversitaire de recherche sur la science et la technologie	<i>04/2019 - 08/2020</i>

## LANGUAGE, STATISTICS AND PROGRAMMING SKILLS

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<b>Language</b>	Fluent in English and French; Novice in German
<b>Modeling and Analysis</b>	Bayesian Data Analysis, Webscraping, Network theory
<b>Software &amp; Tools</b>	Python, R, Git, MongoDB

## PUBLICATIONS

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St-Onge Jonathan, Renaud-Desjardins Louis, Mongeau Pierre, and Saint-Charles Johannes (in prep).  
Socio-semantic network as mutualist network.

## PRESENTATIONS, PAPERS, AND POSTERS

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- Presentation at the International Network for Social Network Analysis (ISNA) 2020 Conference, presenting on socio-semantic network *07/2020*
- Poster presentation at the 3rd Annual Workshop on cultural evolution and social learning research at the Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, on going From Theory to Data, and Back Again. *06/2019*
- Presentation at “l’Association francophone pour le savoir (ACFAS)” colloquium called “L’IA, un dialogue possible?” (AI, an Impossible Dialogue?) *05/2019*
- Presentation at Philopolis on “Why we should learn the language of model to better speak of Ethics in AI”. *02/2019*
- Presentation at Montreal’s Cognitive Science Day (3rd edition) on Multiscale Thinking, the Bayesian Brain, and the Free Energy principle. *03/2018*

## HONOURS AND AWARDS

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- Serge Robert’s Scholarship for studying the cognitive sciences and reasoning (1500\$) *01/2020*
- Faculty of Arts and Social Sciences Graduate Scholarship (2000\$) *03/2020*
- Canada Research Chair in Philosophy of the Life Sciences’ Scholarship (5000\$) *12/2018*
- Bachelor in Behavioral Neuroscience at McGill completed with Distinction