
SOLIM LEGRIS

Montréal, QC

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EDUCATION

- SEPT 2022-2027 NYU, PHD COGNITION AND PERCEPTION
❖ Advisors: Prof. Brenden Lake and Prof. Todd Gureckis
- 2018-2021 MCGILL UNIVERSITY, BASC COGNITIVE SCIENCE (HONOURS)
❖ Minor: Computer Science
❖ GPA: 3.95/4.0
❖ Thesis: [A model of category-learning difficulty](#)
❖ Supervisor: Prof. Stevan Harnad

HONOURS

- 2021 DEAN'S HONOUR LIST, MCGILL UNIVERSITY
❖ Graduated in the top 10% students of the Arts and Science faculty

CERTIFICATIONS

- DEC. 2020 MACHINE LEARNING BOOTCAMP, MCGILL AI SOCIETY
❖ [Multi-digit MNIST classifier](#) using a CNN architecture
❖ [Facial recognition model](#) using PCA
❖ [Sentiment classification](#) using a naive Bayes classifier, support vector machine and random forests classifier
❖ [Brain activity classification](#) using EEG data and a logistic regression model

RESEARCH INTERESTS

- ❖ Computational cognitive science
- ❖ Concept learning, compositional generalization, perception
- ❖ Neuro-symbolic models

RESEARCH EXPERIENCE

- 2020-
PRESENT RESEARCH ASSISTANT VOLUNTEER
Laboratoire de Cognition et Communication, UQAM/McGill
University
- ❖ Conducted an undergraduate honours research project on the relation between category-learning difficulty and categorical perception using a deep neural network.
 - ❖ Planned, modified and executed research techniques, procedures and tests.
 - ❖ Prepared literature reviews for reports and presentations
- 2021 RESEARCH ASSISTANT VOLUNTEER
Perceptual Neuroscience Laboratory for Autism and
Development, McGill University
- ❖ Collaborated with doctoral candidate in the maintenance and organization of a research database
 - ❖ Programatically manipulated research data and performed analyses
- 2019-2020 LAB ASSISTANT VOLUNTEER
Perceptual Neuroscience Laboratory for Autism and
Development, McGill University
- ❖ Execute experiments, supervise participants and collect data in experiments pertaining to attentional mechanisms in neurotypical and neurodivergent individuals

THESIS

LeGris, S. (2021). A model of category-learning difficulty. *Undergraduate Honours Thesis*. McGill University.

PROFESSIONAL EXPERIENCE

- 2022 WEB DEVELOPER
DAQ
- ❖ Designing a website to enable open-access rating of animal treatment in rodeo events by accredited veterinarians.
- 2022 EDITORIAL ASSISTANT
Animal Sentience Journal
- ❖ Created a database for a research project on animal treatment in rodeo events in Quebec, Canada.

2019-2022 ACADEMIC TUTOR

Self-employed

- ❖ Created special handouts, study guides and enrichment materials to boost student knowledge, identify lagging skills and correct weaknesses in math and science.

LANGUAGES

Fluent in French and English (spoken and written)

TECHNICAL SKILLS

- ❖ Fluent in Python
- ❖ Intermediate in Clojure, Java, C and Matlab
- ❖ Object-oriented programming, functional programming
- ❖ Computational neuroscience
- ❖ Data science
- ❖ Bibliographic database (Zotero)

REFERENCES

Dr. Stevan Harnad (thesis supervisor)

Laboratoire de Cognition et Communication, UQAM
harnad.stevan@uqam.ca

Dr. Armando Bertone (lab director)

Perceptual Neuroscience Laboratory for Autism and Development,
McGill University
armando.bertone@mcgill.ca

Dr. Christian Thériault (thesis co-supervisor)

Laboratoire de Cognition et Communication, UQAM
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