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# SOLIM LEGRIS

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Montréal, QC  
H2W1R2 CANADA

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**GitHub:** <https://github.com/alephG>

## EDUCATION

2018-2021 BACHELOR OF ARTS AND SCIENCE, HONOURS  
COGNITIVE SCIENCE, MCGILL UNIVERSITY

- ❖ Concentration: Neuroscience
- ❖ Minor: Computer Science
- ❖ GPA: 3.95/4.0
- ❖ Thesis: A model of category-learning difficulty
- ❖ Supervisor: Prof. Stevan Harnad

2015-2017 DIPLOMA OF COLLEGE STUDIES, ARTS AND  
SCIENCES, JOHN ABBOTT COLLEGE

## HONOURS

2019 DEAN'S HONOUR LIST, MCGILL UNIVERSITY

## 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, generalization, perceptual representations
- ❖ Brain-inspired AI
  - ❖ Scene understanding
  - ❖ Learning from little data

## RESEARCH EXPERIENCE

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|------------------|---|
| 2020-<br>PRESENT | <p>RESEARCH ASSISTANT VOLUNTEER<br/>Laboratoire de Cognition et Communication, UQAM/McGill University</p> <ul style="list-style-type: none"><li>❖ Conducted an undergraduate honours research project on the relation between category-learning difficulty and categorical perception using a computational model of categorization</li><li>❖ Planned, modified and executed research techniques, procedures and tests.</li><li>❖ Prepared literature reviews for reports and presentations</li></ul> |
| 2021             | <p>RESEARCH ASSISTANT VOLUNTEER<br/>Perceptual Neuroscience Laboratory for Autism and Development, McGill University</p> <ul style="list-style-type: none"><li>❖ Collaborated with doctoral candidate in the maintenance and organization of a research database</li><li>❖ Programatically manipulated research data and performed analyses</li></ul>   |
| 2019-2020        | <p>LAB ASSISTANT VOLUNTEER<br/>Perceptual Neuroscience Laboratory for Autism and Development, McGill University</p> <ul style="list-style-type: none"><li>❖ Execute experiments, supervise participants and collect data in experiments pertaining to attentional mechanisms in neurotypical and neurodivergent individuals</li></ul>   |

## THESIS

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

## PROFESSIONAL EXPERIENCE

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| 2019-<br>PRESENT | <p>ACADEMIC TUTOR<br/>Self-employed</p> <ul style="list-style-type: none"><li>❖ Created special handouts, study guides and enrichment materials to boost student knowledge, identify lagging skills and correct weaknesses</li><li>❖ Tutor struggling, average and advanced students in mathematics and science</li></ul> |
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## 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
- ❖ Machine learning
- ❖ Data science
- ❖ Bibliographic database (Zotero)