

# Cognitive Science Orientation

August 26, 2024



# Agenda



Introduction



Advising



Program  
Overview



Student Life-  
SACS



Panel and  
Q&A



## **Ross Otto**

Acting Director, Cognitive Science Program

Associate Professor, Dept of Psychology

Ph.D. Psychology, Univ. of Texas at Austin 2012

B.S. Cognitive Science, UCLA 2005

## **Liana Hall DuMond**

Cognitive Science Program Advisor

## **Student Panel**

U3 Honours Cognitive Science

# Student Panel

**Thuy**

NEUR Stream  
Intl Dev Stud  
Ottawa, CA

**Ben**

NEUR Stream  
Comp Sci  
NJ, USA

**Aimée**

CS Stream  
Philosophy  
Rome, Italy

**Elliot**

PSYC Stream  
East Asian  
OH, USA

**Omar**

LING Stream  
Statistics  
WA, USA

# Advising

Liana Hall DuMond

Program Advisor

Science Office of Undergrad.

Student Advising (SOUSA)

Dawson Hall – 4<sup>th</sup> floor

[liana.hall@mcgill.ca](mailto:liana.hall@mcgill.ca)

ZOOM advising (Mon-Fri)

IN-PERSON advising (Wed - Fri)

[www.mcgill.ca/cogsci/advising/advising-appointments](http://www.mcgill.ca/cogsci/advising/advising-appointments)



# CogSci Program

What is cognitive science?

Why should I choose this program?

# CogSci Program

Interfaculty Program Cognitive Science - 54 credits

Honours Cognitive Science - 60 credits

Minor Cognitive Science – 24 credits

[www.mcgill.ca/cogsci/programs](http://www.mcgill.ca/cogsci/programs)

# How to plan?

Most important tip: PLAN AHEAD!

DO NOT USE:

- Degree Evaluation
- My Progress

Checklist:

[www.mcgill.ca/cogsci/advising](http://www.mcgill.ca/cogsci/advising)

Student Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Grad term/year: \_\_\_\_\_

Interfaculty Program Cognitive Science (54 credits)  
 Honours Cognitive Science (60 credits)

**Core Courses (24 credits)**

<b>Required Course (3 credits)</b> <input type="checkbox"/> NSCI 201 Introduction to Neuroscience 2	<b>Linguistics Course (3 credits)</b> <input type="checkbox"/> LING 201 Introduction to Linguistics <input type="checkbox"/> LING 210 Introduction to Speech Science <input type="checkbox"/> LING 260 Meaning in Language
<b>Logic Course (3 credits)</b> <input type="checkbox"/> COMP 230 Logic and Computability <input type="checkbox"/> MATH 318 Mathematical Logic <input type="checkbox"/> PHIL 210 Introduction to Deductive Logic 1	<b>Philosophy Course (3 credits)</b> <input type="checkbox"/> PHIL 200 Introduction to Philosophy 1 <input type="checkbox"/> PHIL 201 Introduction to Philosophy 2 <input type="checkbox"/> PHIL 221 Intro to the History and Philosophy of Science 2
<b>Computer Science Course (3 credits)</b> <input type="checkbox"/> COMP 202 Foundations of Programming <input type="checkbox"/> COMP 204 Computer Programming for Life Sciences <input type="checkbox"/> COMP 250 Introduction to Computer Science	<b>Neuroscience Course (3 credits)</b> <input type="checkbox"/> NSCI 200 Introduction to Neuroscience 1 <input type="checkbox"/> PSYC 211 Introductory Behavioural Neuroscience
<b>Statistics Course (3 credits)</b> <input type="checkbox"/> PSYC 204 Intro to Psychological Statistics <input type="checkbox"/> MATH 203 Principles of Statistics 1 <input type="checkbox"/> MATH 323 Probability	<b>Psychology Course (3 credits)</b> <input type="checkbox"/> PSYC 212 Perception <input type="checkbox"/> PSYC 213 Cognition

**Complementary Courses (30 credits):**  15 credits must be 400+ level

18 cr. from one of the five areas below. Area: \_\_\_\_\_

12 cr. chosen from any of the complementary courses below: \_\_\_\_\_

Notes: \_\_\_\_\_

**Computer Science**

<input type="checkbox"/> COMP 206 Introduction to Software Systems	<input type="checkbox"/> COMP 451 Fundamentals of Machine Learning
<input type="checkbox"/> COMP 250 Introduction to Computer Science	<input type="checkbox"/> COMP 523 Language-based security
<input type="checkbox"/> COMP 251 Algorithms and Data Structures	<input type="checkbox"/> COMP 527 Logic and Computation
<input type="checkbox"/> COMP 280 History and Philosophy of Computing	<input type="checkbox"/> COMP 531 Advanced Theory of Computation
<input type="checkbox"/> COMP 302 Programming Languages and Paradigms	<input type="checkbox"/> COMP 546 Computational Perception
<input type="checkbox"/> COMP 330 Theory of Computation	<input type="checkbox"/> COMP 549 Brain-inspired Artificial Intelligence
<input type="checkbox"/> COMP 345 From Natural Language to Data Science	<input type="checkbox"/> COMP 550 Natural Language Processing
<input type="checkbox"/> COMP 360 Algorithm Design	<input type="checkbox"/> COMP 551 Applied Machine Learning
<input type="checkbox"/> COMP 400 Project in Computer Science	<input type="checkbox"/> COMP 558 Fundamentals of Computer Vision
<input type="checkbox"/> COMP 409 Concurrent Programming	<input type="checkbox"/> COMP 562 Theory of Machine Learning
<input type="checkbox"/> COMP 417 Introduction Robotics and Intelligent Systems	<input type="checkbox"/> COMP 579 Reinforcement Learning
<input type="checkbox"/> COMP 421 Database Systems	<input type="checkbox"/> MATH 222 Calculus 3
<input type="checkbox"/> COMP 424 Artificial Intelligence	<input type="checkbox"/> MATH 223 Linear Algebra
<input type="checkbox"/> COMP 445 Computational Linguistics	<input type="checkbox"/> MATH 240 Discrete Structures

**Linguistics**

Any course at the 300, 400 or 500 level from the department of Linguistics, or from the following:  
 LING 201 Introduction to Linguistics  LING 260 Meaning in Language



# Course Selection

How do I know what classes to take?

What prereqs do I need?

What stream/area of focus should I choose?

Watch the videos and consult pdfs for your stream:

[www.mcgill.ca/cogsci/advising/orientation](http://www.mcgill.ca/cogsci/advising/orientation)

CEGEP/AP/IB/FB equivalences

[www.mcgill.ca/transfercrredit/prospective](http://www.mcgill.ca/transfercrredit/prospective)

# Common Mistakes

1

Not meeting with your advisor regularly 😊

2

Not planning ahead for the 15 credits of 400+ level complementary courses

3

BA&Sc degree rules: the “**21 credit rule**” and **120 credits** needed to graduate

4

Taking a course you don't have the prerequisites for

5

Missing minor program requirements

# Other Resources

## FALL DATES & DEADLINES

**Sept 10:** Add/drop and S/U

**Sept 17:** Course Withdrawal with refund

**Oct 24:** Course Withdrawal NO refund

**Dec 4:** Last day of classes

**Dec 6-20:** Exam period

## RESEARCH

[www.mcgill.ca/cogsci/research](http://www.mcgill.ca/cogsci/research)

[www.mcgill.ca/science/research/undergraduate-research](http://www.mcgill.ca/science/research/undergraduate-research)

[www.mcgill.ca/arts-internships/research](http://www.mcgill.ca/arts-internships/research)

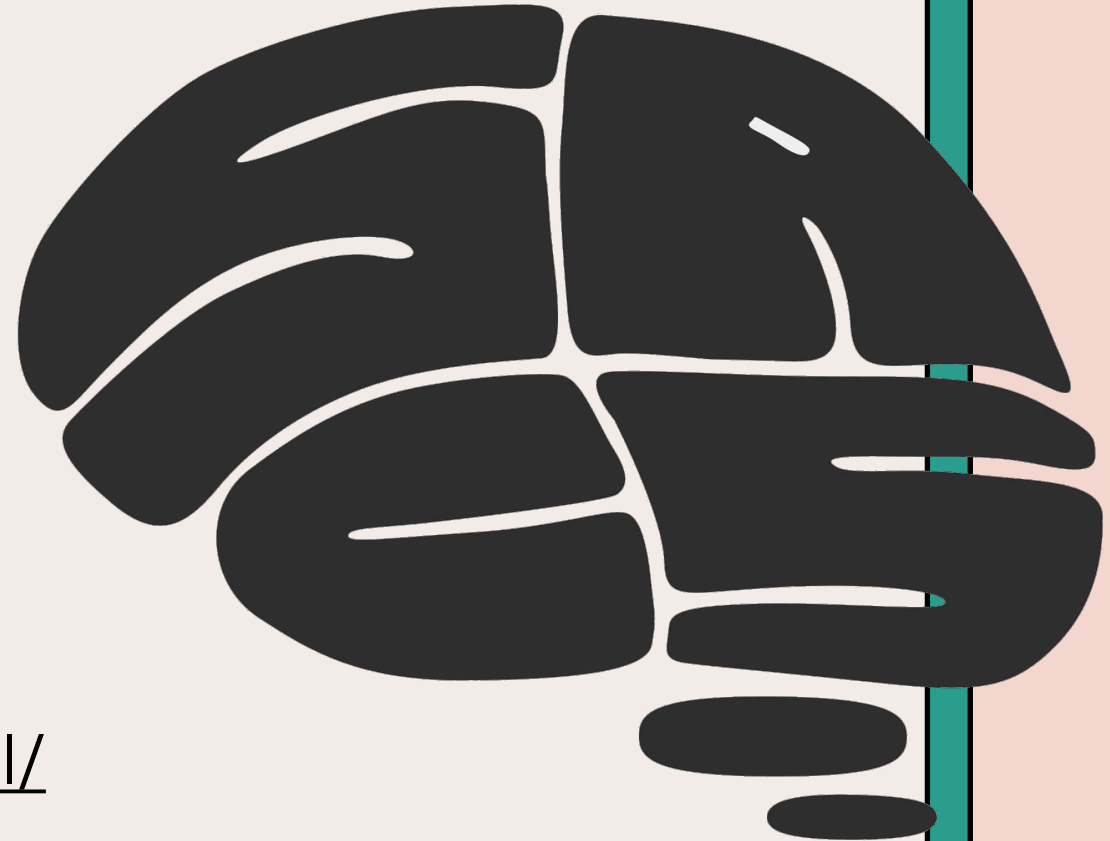
# What is SACCS?

Student Association of Cognitive  
Science

Where to find us:

[www.cogsci-mcgill.com/](http://www.cogsci-mcgill.com/)

[www.instagram.com/cogsci\\_mcgill/](http://www.instagram.com/cogsci_mcgill/)



# What we offer

## Resources

- [CogSci Course Review Handbook](#)
- [Buddy Program](#)
- [Messenger groupchat](#)

## Academic Events

- Lab Tours
- Speaker Series
- Alumni Panel
- Workshops
- Study sessions

## Social Events

- Welcome Back Picnic (Sep 4th, free pizza!!)
- Wine & Cheese Networking
- Trivia, Apartment Crawls, etc.

# Student Panel

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Rome, Italy

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THANK YOU!