

# Carolyn Saund

carolynsaund.me  
carolyn.saund@gmail.com | +44.759.557.9616

## EDUCATION

### MSC RESEARCH METHODS IN PSYCHOLOGY

UNIVERSITY OF GLASGOW |  
GLASGOW, UK  
September 2019 (Expected)

### BSC COMPUTER SCIENCE, BRAIN AND COGNITIVE SCIENCE

TUFTS UNIVERSITY | SOMERVILLE  
MA, USA  
UNIVERSITY OF CANTERBURY |  
CHRISTCHURCH, NZ  
May 2015

## COURSEWORK

### UNDERGRADUATE

Advanced Topics in Machine  
Learning  
Computational Models of Cognitive  
Science  
Stochastic Systems  
Linear Algebra  
Machine Architecture and Assembly  
Advanced Topics in Artificial  
Intelligence

### CONTINUING

Advanced Seminar in Cognitive  
Architectures  
Neural Networks for Machine  
Learning

## SKILLS

### LANGUAGES

Fluent:  
Javascript • Python • C  
C++ • Java • R  
Familiar:  
LISP • CSS • HTTP • Go

### WORKFLOW/Frameworks

git/github • NodeJS • React •  
SVN • Unix/Linux • Jenkins/TDD  
• CI releases • Stash •  
Phabricator/arcanist • Gradle

## RESEARCH

### MSC, RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE

Sept 2018 - Sept 2019 (Expected) | University of Glasgow  
Supervisors: Philippe Schyns & Stacy Marsella

- Design and implementation of bodily gesture system for virtual humans to compare naturalness of accompanying speech patterns and consequential efficacy of communication.
- MEG analysis of motion data when making semantic decisions on gestures for use in determining information integration areas in the adult human brain.

### METHOD AND TECHNIQUE PROFICIENCIES

- Fluency in statistical processing using R, SciPy, and Pandas
- Familiarity with deep learning libraries and implementation techniques, including TensorFlow, Theano, Hadoop
- Trained in MEG and fMRI imaging techniques

## WORK EXPERIENCE

### COGITO

#### PLATFORM TEAM LEAD

Jan 2018 - August 2018 | Boston MA

- Managed Agile team of 10 engineers
- Oversaw top-to-bottom implementation of three major user-facing features

#### SENIOR SOFTWARE ENGINEER

August 2017 - Jan 2018 | Boston MA

- Originally Implemented and manage release pipeline.
- Full-stack development of Role-Based User Management (RBUM) APIs.

### JIBO

#### CHARACTER AI ENGINEER

Jan 2017 - August 2017 | Boston, MA

- Designed and implemented robotic bi-axial Emotion System and corresponding impacts on robot behavior.
- Single-handedly architected and maintained robot listening pipeline (main interface for interaction).

#### ROBOT SDK ENGINEER

May 2015 - Dec 2016 | Boston, MA

- Architected data APIs for dev tools to manage robot sensory input from cameras and microphones.
- Implemented frontend UI and developer interfaces to build high-level skills.

#### SOFTWARE CONSULTANT

August 2017 - December 2017 | Boston, MA

### SPOTIFY

#### SOFTWARE ENGINEERING INTERN

May 2014 - Sep 2014 | NY, NY

- Full stack development of internal desktop application.
- Developed web APIs and GUI for music annotation tools

# TALKS & MEMBERSHIPS

## CONFERENCES AND PRESENTATIONS

- Women Engineers Code - Abstraction and API Design
- Women in Technology - Imposter Syndrome
- Lesbians Who Tech - Presentation on emotional future of robotics
- Boston ML Meetup - Human-Computer Interfaces
- Tufts WICS Conference, Alumni Panel

## WORKSHOPS

- SXSW - Getting started with social robots
- MLHacks - Jibo SDK & App design for social robots

## MEMBERSHIPS & ACTIVITIES

- Cognitive Science Society
- Biologically Inspired Cognitive Architectures Society
- British Psychological Society
- British Computing Society
- University of Glasgow Robotics Society
- University of Glasgow FemEng Society

# LEADERSHIP AND COMMUNITY SERVICE

## UNIVERSITY OF GLASGOW PSYCHOLOGY DEPARTMENT | ATHENA SWAN COMMITTEE MEMBER

Oct 2018 - Present | Glasgow, UK

- On Student committee for department Athena SWAN chapter.
- Designed and implemented initiatives to encourage students to become STEM Ambassadors.
- Implemented metric gathering mechanism to track demographics of seminar and workshop participation.
- Collaborated with sociology department on evaluation metrics and surveys to ensure validity of efficacy reports.

## UNIVERSITY OF GLASGOW PSYCHOLOGY DEPARTMENT | STUDENT REPRESENTATIVE COUNCIL

Sept 2018 - Present | Glasgow, UK

- Gathered feedback on courses, program structure, and student experience.
- Participated in Student Council meetings to represent program cohort.
- Collaborated with faculty and staff on program and messaging improvements.

## TUFTS UNIVERSITY COMPUTER SCIENCE DEPARTMENT | WOMEN IN COMPUTER SCIENCE PRESIDENT

Jan 2013 - Jan 2015 | Somerville, MA

- Coordinated logistics of club hackathons, speakers, and outreach.
- Led executive board in creating WiCS mission and club constitution.

## STEM AMBASSADORS | VOLUNTEER

Oct 2018 - Present | Glasgow, UK

- Participate in career talks and robotics demos for high schoolers.
- Facilitate and mentor high school robotics team.

## GIRL GUIDING | VOLUNTEER

Sept 2018 - Present | Glasgow, UK

- Volunteer weekly with troupe leading leadership and cooperation building skills.
- Supervise weekend trips to museums and venues around Glasgow.

## CAMBRIDGE INVENTORS CLUB | ORGANIZER & CO-COORDINATOR

Jan 2016 - June 2018 | Cambridge, MA

- Worked with children age 8-13 on engineering fundamentals, such as iterative design, retrospectives, and cooperation

## GIRLS WHO CODE | INSTRUCTOR

Sept 2015 - June 2016 | Belmont, MA

- Instructed three levels of middle- and high-school aged students from introduction to basic data structures.
- Supplemented given course materials with additional lesson plans to emphasize CS fundamentals.