Ralph Sarkis
ralph.sarkis@mail.mcgill.ca
(438) 827-7253
ralphs16.github.io

COMPUTER SKILLS

- Proficient in Python, C, Javascript and LaTeX
- Website design in HTML5, CSS3, PHP and MySQL
- Basic knowledge in Arduino, OCaml, Java and Bash, BASIC

WORK EXPERIENCE

Teaching Assistant	**September 2018 - December 2018**
McGill University	

- Class: *Theory of Computation* taught by Prof. Prakash Panangaden
- Held weekly office hours to help students with the course material and homeworks
- Graded assignments and midterm

Research Assistant	**May 2018 - August 2018**
McGill University	

- Supervised by Prof. Hamed Hatami
- Received a grant from NSERC and supplement from FRQNT (CAD$8500 total)
- Showed that the rank median problem for permutations is **APX-hard**

Achievement: *Submitted paper to RECOMB 2019.*

Instructor	**July 2017**
Digital Media Academy (DMA) *(Multimedia focused summer camp)*	

- Prepared and gave lectures for programming classes (*Game design* and *Electronics with Arduino* for 8-12 years old, *Computer science* for 13-17 years old)
- Helped the student finish their own projects

Intern in a nanophotonics lab	**April – May 2016**
Institut National de la Recherche Scientifique (INRS-EMT)	

Objective: *Improve the electrochemical etching procedure for silver tips.*
- Replicated experiments while measuring and modifying different variables
- Produced weekly reports to present the experiment results
- Compiled a final internship report and presented it to a non-scientific audience

Teaching Assistant	**July 2015**
Digital Media Academy (DMA)	

- Helped the teacher to prepare and lead 2 programming classes (*Game design* and *Minecraft modding*)
- Supported the students (8-12 years old) when learning concepts from the class
- Facilitated the extracurricular activities

Physics and chemistry project (203-NYA, 202-NYB)	**September 2014 – April 2015**
Collégial international Sainte-Anne (CiSA)	

Objective: *Build an automaton that recycles used oils into biodiesel.*
- Learned and analyzed the industrial process.
- Designed and assembled the piping
- Automated the machine with an Arduino microprocessor and other electronic components

EDUCATION

Joint Honours in Math and Computer Science	**August 2016 – Expected April 2019**
McGill University	Montreal, QC
Bilingual DEC in pure and applied sciences	**2016**
Collégial international Sainte-Anne (CiSA)	Lachine, QC