

Ralph Sarkis
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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 McGill University

September 2018 - December 2018

- Course: *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 McGill University

May 2018 - August 2018

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