Ralph Sarkis ralph.sarkis@ens-lyon.fr ralphs16.github.io

WORK EXPERIENCE

Research Intern April - July 2020 LIP (ENS de Lyon)

- Supervised by Matteo Mio and Valeria Vignudelli
- Worked on algebraic presentations for different monads modelling nondeterministic and probabilistic choices with termination

Achievement: Submitted a paper to FoSSaCS 2021.

Teaching Assistant McGill University

September - 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 Intern May - August 2018 McGill University

- Supervised by Prof. Hamed Hatami
- Received a grant from NSERC and supplement from FRQNT (CAD\$8500 total)
- Worked on the complexity of the rank median problem for permutations and genomes

October – December 2017 Grader McGill University

Graded assignments for an introduction to Abstract Algebra class (MATH 235)

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 Institut National de la Recherche Scientifique (INRS-EMT)

April – May 2016

- **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

EDUCATION

Theoretical Computer Science (Master)	August 2019 – Expected June 2021
ENS de Lyon	Lyon, France
Joint Honours in Math and Computer Science (BSc)	August 2016 – April 2019
McGill University	Montreal, QC

PROGRAMMING EXPERTISE

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