

PUBLICATIONS

- Matteo Mio, Ralph Sarkis, and Valeria Vignudelli. “Combining Nondeterminism, Probability and Termination: Equational and Metric Reasoning”. In: *LICS’21*.

WORK EXPERIENCE

Research Intern February – June 2021
IRIF (Université de Paris)

- Supervised by Daniela Petrişan
 - Worked on weak distributive laws and their relations to semialgebras for monads
- Achievement:** Submitted a paper to MFPS 2021 (see preprint here).

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

- Supervised by Matteo Mio and Valeria Vignudelli
 - Worked on algebraic presentations for monads modelling nondeterministic and probabilistic choices with termination
- Achievement:** Published a paper at LICS 2021 (see preprint here).

Teaching Assistant September – December 2018
McGill University

- 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

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

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 (PhD) September 2021 – Expected June 2024
ENS de Lyon Lyon, France

Theoretical Computer Science (Master) August 2019 – June 2021
ENS de Lyon Lyon, France

Achievement: Obtained two 10000€ scholarships from Labex MiLyon

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