

DAVID CHEIKHI

d.cheikhi@gsb.columbia.edu

EDUCATION

- Columbia Business School, Columbia University**, New York, NY Sep 2021 - Current
PhD Candidate in the Decisions, Risk and Operations (DRO) division, advised by Prof. Dan Russo.
- Columbia University**, New York, NY Sep 2019 - Dec 2020
Master of Science in Computer Science - Machine Learning Track
Dynamic programming, Machine Learning Theory, Graphical models, Optimization
- Ecole polytechnique**, Paris, FR Sep 2016 - Jul 2019
• Master of Science in Applied Maths and Computer Science - Operations Research Track
Operations Research, Mathematical Programming, Randomized Algorithms
• Bachelor of Science in Applied Maths and Computer Science
Probability, Statistics, Stochastic Process, Algorithm Design, Complexity Theory
- Lycée Henri Poincaré**, Nancy, FR Sep 2014 - Jun 2016
Competitive undergraduate program in mathematics, physics and computer science
Algebra, Differential calculus, Discrete Probability

RESEARCH

- On the statistical benefit of intermediate outcomes in long-term optimization** , Working paper
with Prof. Daniel Russo, Columbia DRO Department
- Stochastic Flows and Geometric Optimization on the Orthogonal Group**, ICML 2020
Krzysztof Choromanski, David Cheikhi, Jared Davis, Valerii Likhoshesterov, Achille Nazaret, Achraf Bahamou, Xingyou Song, Mrugank Akarte, Jack Parker-Holder, Jacob Bergquist, Yuan Gao, Aldo Pacchiano, Tamas Sarlos, Adrian Weller, Vikas Sindhwani

WORK EXPERIENCE

- Google**, Paris, FR May 2020 - Oct 2020
Research Software Engineer Intern - Operations Research
• Building a dataset and a model predicting the latency of the Vehicle Routing solver *C++, Python*
• Enabling a better scheduling of instances
• Leading to a better understanding of how features impact the solve time
- Google**, Paris, FR Apr 2019 - Aug 2019
Software Engineer Intern - Operations Research
• Designed an algorithm to split large constrained Vehicle Routing problem instances *C++*
• Enabled to solve significantly larger instances by splitting them first
- Google**, London, UK Jun 2018 - Aug 2018
Site Reliability Intern
• Creation of a pipeline to get data from the servers *GoLang*
• Calibration of models to compute a unite of measurement of hardware performance *Python*

TEACHING EXPERIENCE

- Columbia Business School, Columbia University**, New York, NY Oct 2020 - Dec 2020
• TA: Managerial Statistics (MBA core), *Fall 2022*

- TA: Sports Analytics (MBA elective), *Summer 2022, Fall 2022*

SEAS School of Engineering, Columbia University, New York, NY

- Teaching Assistant: Analysis of Algorithm, *Fall 2020*
- Teaching Assistant: Randomized Algorithms, *Fall 2019*

Science Ouverte (Open Science), Drancy, FR

Sep 2016 - Apr 2017

Intern

- Science Ouverte is an association which promotes science in high priority education area
- Teaching science to primary school, middle school, high school and undergraduate students
- Creation and animation of science popularization activities

France-IOI, Paris, FR

Sep 2016 - Present

Volunteer coach

- Volunteer coach in algorithmic boot camp for high school students