

Pierre Marion

pierre.marion@mines.org

10 rue de Savoie
75006 Paris, France
☎ + 33 (0)6 81 05 26 82

Education

- 2019 - 2023 **Sorbonne University, LPSM**, Paris, France.
- 2020 - 23 : PhD about the links between deep learning and differential equations
 - 2019 - 20 : Machine Learning Master's degree (Master Apprentissage et Algorithmes)
- 2015 - 2019 **Ecole Polytechnique**, Paris, France.
- Engineering degree, major in Applied Mathematics (3.98 GPA, top 1% of my class)
 - I was admitted to Corps des Mines, a highly selective program for executive careers
- 2013 - 2015 **Lycée du Parc**, Lyon, France.
- Preparatory classes in Mathematics, Physics and Engineering

Main projects & internships

- May - Oct. **Google Research**, Zurich, Switzerland.
- 2020
- I studied conversational systems grounded in Knowledge Graphs
 - I implemented a software tool for Question Answering on Wikidata
- Nov. 2018 - **Engie**, a French multinational electric utility company, La Défense, France.
- Aug. 2019
- I competed for public tenders for urban infrastructure projects (€5 million - €1 billion)
- April - Aug. **University of Montreal, DIRO**, Montreal, Canada.
- 2018
- I developed a novel algorithm for quasi Monte-Carlo point sets evaluation
 - I extended LatNet Builder, an open-source software for quasi Monte-Carlo methods
 - I was awarded the Ecole Polytechnique Grand Prize of Research Internships
- Sep. 2017 - **Project Jupyter**, Paris, France.
- March 2018
- I developed *ipypivot*, a Jupyter notebook extension
 - I animated the Jupyter community at Ecole Polytechnique
- July - Aug. **Société Générale**, a French multinational investment bank, La Défense, France.
- 2017
- I developed a web platform (VueJS, Python) used inside the investment bank
- Oct. 2015 - **EPIDE** (Public Institution for Youth Employability), Marseille, France.
- Apr. 2016
- I was a mentor for young adults (18 - 25 y.o.) coming from a difficult social background

Scientific publications

- Forthcoming P. L'Ecuyer, M. Godin, A. Jemel, J. Keutchayan, P.M., and F. Puchhammer, *LatNet Builder: A Factory for Quasi-Random Point Sets*
- June 2020 P.M., M. Godin, and P. L'Ecuyer, *An algorithm to compute the t-value of a digital net and of its projections*, Journal of Computational and Applied Mathematics, Volume 371

Other publications

- May 2020 *How to count the Covid-related deaths ? (in French)*, The Conversation France
- March 2018 *Authoring Custom Jupyter Widgets, a hands-on guide*, Jupyter Blog

Miscellaneous

- Languages** Fluent English - TOIEC score of 990 in 2018
- Programming** Python, C++, Java, JavaScript
- Running** Participant in the 2018 Lyon marathon
- Winner of the race I've Got Your Back in Montreal in 2018