Florentin Guth

Personal Data

Date of Birth:	20 February 1997
Address:	45 rue d'Ulm, 75005 Paris, France
Phone:	+33 (0) 7 81 18 93 80
Email:	florentin.guth@ens.fr

Experience

March-June 2018 | **Research intern** at Facebook AI Research, New York, USA.
I studied the application of Counter-Factual Regret Minimization for tactics in StarCraft.
Under the supervision of Gabriel Synnaeve and Nicolas Usunier.

June-August 2017 | **Research intern** at ETH Zürich, Switzerland.
I developed a tool able to infer automata describing contract interactions on the *Ethereum* blockchain. We have an ongoing submission at the ICSE 2019 conference.
Under the supervision of Dr. Valentin Wüstholz and Pr. Peter Müller.

Teaching

November 8, 2018 | **Wide audience talk** at École Normale Supérieure, Paris, France.
1-hour long wide audience talk on compilation: "How to create a programming language?". Takes part in the "Séminaires pour tous" (seminars for everyone) initiative to provide in-depth yet accessible talks about advanced graduate topics, aimed at undergraduate students. This short description is totally not representative of the time I spent polishing the talk.
Video and slides (in French)

Education

2018–2019 | **MVA Master degree**, École Normale Supérieure Paris-Saclay, Paris, France.
(ongoing)
MVA stands for Mathematics, (Computer) Vision and (Machine) Learning in French.

2017–2018 | **First year Master's in Computer Science**, École Normale Supérieure, Paris, France.
With highest honors, Gpa 4.00 (18/20)

2016–2017 | **Bachelor degree in Computer Science**, École Normale Supérieure, Paris, France.
With highest honors, Gpa 4.00 (18.33/20).

2014–2016 | **Classe préparatoire**, Lycée du Parc, Lyon, France.
With highest honors.
Intensive undergraduate courses in Mathematics, Physics, and Computer Science.

2011–2014 | **Baccalauréat**, Lycée Léon Blum, Le Creusot, France.
With highest honors, specialized in Mathematics.

Interests and Activities

Music	Piano (jazz and classical), keyboard percussions, doublebass (jazz and classical), drums
Bridge	France champion (under 18, by pairs) 2013
Sport	Running, climbing
Other	Improvisational Theater, volunteering at a Student Listening Service

Prizes and Contests

2017	67th (out of 3,000) in "Innovation" of the Ludum Dare 40 game jam with "Stealing Cubes"
2017	11th of the french national algorithmic contest Prologin
2016	29th of the french national algorithmic contest Prologin
2015	39th of the french national algorithmic contest Prologin
2013	3rd of the Mathematics Olympiads of Dijon, France
2010	1st of the "Rallye des Mathématiques" of Saône-et-Loire, France
2009	1st of the "Rallye des Mathématiques" of Saône-et-Loire, France
2008	3rd of the "Rallye des Mathématiques" of Saône-et-Loire, France
2003	3rd of the "Fête du Livre de la ville du Breuil" short story contest

Second-year Master's degree (ongoing, 1 semester only) in Mathematics, Computer Vision and Machine Learning

List of courses

Course	Grade (out of 20)	ECTS
Deep Learning	-	5
Reinforcement Learning	-	5
Mathematical Foundations of Data Science	-	5
Probabilistic Graphical Models	-	5
Graphs in Machine Learning	-	5
Computational Statistics	-	5
Object Recognition and Computer Vision	-	5
3D Computer Vision	-	5

First-year Master's degree (1 semester only) in Computer Science

List of courses

Course	Grade (out of 20)	ECTS
Machine Learning	18	9
Convex and Combinatorial Optimization	18	9
Introduction to Computer Vision	18	9
Network Models and Algorithms	18	9
Master's Internship	18	30
Stochastic Processes	18	12
Statistics	17	12
Harmony and Keyboard Harmonization	-[1]	6
GPA and Total	**4.00**	**96**

[1]Course without final mark

Bachelor degree
in Computer Science

List of courses

Course	Grade (out of 20)	ECTS
Algorithmics and Programming	19	9
Formal Languages, Calculability and Complexity	15.5	9
Programming Languages and Compilation	18.5	9
Digital Systems	19	9
Systems and Networks	17.7	9
Information and Coding Theory	19	12
Introduction to Cryptography	16.25	9
Computer Science through Practice	18	9
Signal Processing	16.5	9
Random Structures and Algorithms	17	9
Semantics and Application to Program Verifying	16.75	9
Large Scale Machine Learning	16	2
Bachelor Internship	17	12
Integration and Probabilities	17.5	12
Algebra 1	19.5	12
Topology and Differential Calculus	19	12
Functional Analysis	17	12
Introduction to Computational Neurosciences	19.52	4
Introduction to Decision Theory	16.46	4
English Debating	14.9	6
British Humour	14.2	6
GPA and Total	**4.00**	**184**