

EDUCATION

2012-Present	<p>MIT. <i>PhD in Computer Science and Artificial Intelligence.</i> Focus on large-scale machine learning and natural language processing, with applications to MOOCs and healthcare.</p>
2009-2011	<p>ENS Ulm (École Normale Supérieure), Paris. Leading French University for sciences <i>Research Master in Cognitive Science (CogMaster)</i>, specialization in artificial intelligence. Ranked 2nd out of 43.</p>
2008-2011	<p>CNAM (Conservatoire National des Arts et Métiers), Paris. <i>Research Master in Computer Science</i>, specialization in artificial intelligence. Ranked 2nd out of 50.</p>
2007-2011	<p>HEC Paris, Ranked 1st European Business School by the Financial Times 5 years in a row. <i>Master of Science</i>, specialization in information systems. Ranked top 1% and 1st in math/CS in the entrance examination among 5,000 candidates.</p>
2008-2009	<p>University of Bath, England. Exchange student for the first semester.</p>
Summer 2008	<p>Stanford. Visiting student in computer science. Average grade: A.</p>
2007-2008	<p>University Paris–Dauphine, Bachelor's degree in Mathematics.</p>
Summer 2007	<p>PKU (Peking University), Beijing. Visiting student in economics.</p>
2005-2007	<p>“Classe Préparatoire” at Lycée Henri IV, Paris. An intensive two-year course after the Baccalaureate to prepare for the competitive entrance into France’s leading colleges. Courses included mathematics, computer science, languages and economics. Ranked 2nd out of 46. Admitted to all top schools.</p>
2002-2005	<p>High School at Lycée Henri IV, Paris, “widely regarded as one of the most demanding in France” according to Wikipedia. Specialization in science.</p>

WORK EXPERIENCE

2012 - Present	<p>Research Assistant in Machine Learning MIT CSAIL (Computer Science and Artificial Intelligence Laboratory).</p> <ul style="list-style-type: none"> Focusing on large-scale machine learning and natural language processing, with applications to MOOCs and healthcare
2011-2012	<p>Research Intern in Artificial Intelligence LIP6 (Laboratory of Computer Science, Université Pierre et Marie Curie, Paris).</p> <ul style="list-style-type: none"> Built conversational agents for serious games, using semantics, ontology, natural language processing and knowledge representation.
2010-2011	<p>Research Intern in Computational Neuroscience ISIR (Institute of Intelligent Systems and Robotics, Université Jussieu, Paris)</p> <ul style="list-style-type: none"> Modeled a part of the brain involved in low-level decision making, as a neural network. Optimized the model with evolutionary computation. Evaluated as a virtual robot controller.
2010 (Jan-Jul)	<p>Software Developer La Banque Postale (A national bank in France)</p> <ul style="list-style-type: none"> Specified, conceived, and developed a project management application in La Banque Postale's J2EE expert department. Used Java (Spring), UML, PL/SQL, Oracle DB.

2008-2010	Founder of Wiki4Games.com <ul style="list-style-type: none"> Launched a wiki dedicated to video games: over 4,200 articles created, 2,200 files uploaded and 3 million page views since 11 April 2008. Used PHP, C++ (Qt), JavaScript, MySQL, Apache HTTP Server, Webmin, BIND.
2008-2009	President of HEC Microsystèmes, HEC's Computer Science club <ul style="list-style-type: none"> Taught introductory computer science classes to all freshmen every year. Administered the two major student websites. Provided IT support to students.
2005-2006	Co-founder of FMClubbing.com <ul style="list-style-type: none"> Created a website about Paris' nightlife: over 300,000 hits, more than 500 events published, and 43 venues affiliated. Used HTML, PHP, JavaScript, CSS, MySQL, SQL.

LANGUAGES AND COMPUTER SKILLS

Languages	French: Native language English: Fluent (Over 3 year in English-speaking countries. TOEFL: top 5%; GRE: top 5%)
Computer Skills	Web technologies: HTML, SQL, JS, PHP, Apache HTTP Server. Programming: Mostly Python, Java, C++ and MATLAB. Misc.: MySQL, OpenStack, http://careers.stackoverflow.com/franck

AWARDS

2011	Outstanding Full Grant Award from DGA (French Department of Defense) for research in AI.
2010	Google AI Challenge – Autumn 2010 (Artificial Intelligence): Top 10% (FrankyRP).
2009	NewbieContest (Hacking): Top 1% (FrankyRP).
2006	SimONU (UN-like negotiation simulation): Best public speaker award.
2005	Kangaroo (Math): ranked 1 st in Lycée Henri IV.

MAJOR PUBLICATIONS

<http://francky.me/publications.php>

- beatDB: a large-scale waveform feature repository. (NIPS Workshop 2013)
- MooViz, A large-scale, open-access, collaborative, data analytics platform for MOOCs. (NIPS Workshop 2013)
- MOOCdb: developing standards and systems for MOOC Data Science (MIT Technical Report 2013)
- Efficient training set use for blood pressure prediction in a large-scale learning classifier system. (GECCO 2013)
- Of the use of natural dialogue to hide MCQs in serious games. (RECITAL 2012)
- Designing an intelligent dialogue system for serious games. (RJC EIAH 2012)
- The medial Reticular Formation: a neural substrate for action selection? An evaluation via evolutionary computation. Master's Thesis (ENS/EHESS/Paris 5, 2011)
- Fuzzy logic: introducing human reasoning within decision-making systems? Master's Thesis (CNAM, 2011)

INTERESTS AND ACTIVITIES

- Online interactions:** I am a strong proponent of open science and lead the open science society at MIT. I am a frequent contributor on Quora and StackExchange with thousands of posts. I used to be a writer and moderator in AI at Developpez.com (the largest French-speaking IT community, 200,000 unique visitors/day).
- Music:** I am a hobbyist DJ, having on average one event per month with typically hundreds, sometimes thousands of attendees. See <http://sp1n.it>