

Xuedong Shang

Curriculum Vitae

Education

- 2017–2020 **PhD in Computer Science**, *Inria*, Lille, France.
machine learning, multi-armed bandits, reinforcement learning
- 2015–2017 **Master of Computer Science**, *École normale supérieure de Cachan*, Rennes, France.
- 2014–2015 **Bachelor of Computer Science**, *École normale supérieure de Cachan*, Rennes, France.
- 2012–2013 **Bachelor of Mathematics**, *Université Pierre et Marie Curie (Paris VI)*, Paris, France.
- 2008–2011 **Mathematical Preparatory Class**, *Lycée Henri Poincaré*, Nancy, France.
post-secondary preparatory classes preparing for highly selective entrance examinations to the French Grandes Ecoles, including intense courses on mathematics, physics, chemistry, computer science and philosophy

Training

- July 2019 **Reinforcement Learning Summer School**, Lille, France.
reinforcement learning, bandits
- Jan 2019 **Machine Learning Summer School**, Stellenbosch, South Africa.
machine learning

Publications

Conference Papers

- ALT 2019 **General parallel optimization without metric**, in Proceedings of the 30th International Conference on Algorithmic Theory, Chicago, USA.
Xuedong Shang, Emilie Kaufmann and Michal Valko

Journal Papers

Workshop Papers

- ICML 2019 - **A simple dynamic bandit algorithm for hyper-parameter optimization**, in 6th AutoML ICML Workshop on Automated Machine Learning, Long Beach, USA.
Xuedong Shang, Emilie Kaufmann and Michal Valko
- EWRL 2018 **Adaptive black-box optimization got easier: HCT only needs local smoothness**, in 14th European Workshop on Reinforcement Learning, Lille, France.
Xuedong Shang, Emilie Kaufmann and Michal Valko

Preprints

25, rue de Tournai – 59800 Lille

📞 +33 651882289 • 📞 00892165648623 • ✉ xuedong.shang@inria.fr
🌐 xuedong.github.io

Experience

Vocational

- October 2017–September 2020 **PhD Candidate**, *SequeL, Inria Lille-Nord Europe*, Lille, France.
Adaptive Methods for Optimization in Stochastic Environments, under the supervision of Emilie Kaufmann & Michal Valko
- February 2017–July 2017 **Research Internship**, *SequeL, Inria Lille-Nord Europe*, Lille, France.
Hierarchical Bandits for "Black Box" Optimisation and The Monte-Carlo Tree Search, under the supervision of Emilie Kaufmann & Michal Valko
- May 2016–July 2016 **Research Internship**, *Yamamoto-Cuturi Lab., Graduate School of Informatics, Kyoto University*, Kyoto, Japan.
Optimal Transport Geometry for Machine Learning Problems, under the supervision of Marco Cuturi
- September 2015–May 2016 **Research Project**, *COSTEL, LETG Rennes*, Rennes, France.
Time Series Clustering, under the supervision of Thomas Corpetti & Romain Tavenard
- May 2015–July 2015 **Research Internship**, *Magnet, Inria Lille-Nord Europe*, Lille, France.
Recommender System, under the supervision of Marc Tommasi
- June 2012–July 2012 **Research Internship**, *CNRS Vérimag*, Grenoble, France.
On the Generation of Positivstellensatz Witnesses in Degenerate Cases, under the supervision of David Monniaux

Others

- May 2019–May 2020 **Secretary-General**, *Union des étudiants et chercheurs chinois à Lille (UCECL)*, Lille, France.
- June 2018–May 2019 **Member**, *Publicity Department, Union des étudiants et chercheurs chinois à Lille (UCECL)*, Lille, France.
- July 2013–August 2013 **Summer Internship**, *Corporate Banking Department, Industrial and Commercial Bank of China*, Shanghai, China.
- August 2012 **Summer Internship**, *International Business Department, Agricultural Bank of China*, Shanghai, China.

Computer skills

Programming languages	C, C++, C#, Objective-C, Swift, Java, Python, Julia, Ruby, R, OCaml, Scala, Haskell, Elixir, Clojure, Rust, Golang, Bash	Web	HTML5/CSS3, Bootstrap, jQuery, JSON/Ajax, JavaScript, Sass, React, D3, Node.js, MongoDB
Operating systems	Linux, Windows, Mac OS	Numerical	Maple, Matlab/Octave

25, rue de Tournai – 59800 Lille

☎ +33 651882289 • ☎ 00892165648623 • ✉ xuedong.shang@inria.fr
🌐 xuedong.github.io

Machine learning scikit-learn, PyTorch, Theano

Other \LaTeX , Git, SVN, Vim, Emacs, Jupyter Notebook

Services

NIPS 2017, External Reviewer.

NeurIPS 2019, Reviewer.

ICML 2018, 2019, External Reviewer.

AISTats 2019, External Reviewer.

ICLR 2019 Workshop LLD, Reviewer.

RLSS 2019, Organization Committee, Teaching Assistant.

Languages

English	Full Professional Proficiency	TOEIC 925
French	Native/Bilingual Proficiency	
Chinese Mandarin	Mother Tongue	
Chinese Shanghainese	Mother Tongue	
Japanese	Limited Working Proficiency	

Interests

Academic	Maths, Finance, Neuroscience, e-Education
Sports	Football, Basketball, Ski, Cycling, Bouldering
Arts	Piano

Extra

Eduinfinity	Team leader on computer science courses	<i>A translation group providing chinese subtitles for courses on Coursera.org, edX.org, etc</i>
Wikipedia	Wikipedian in English, French, Chinese and Japanese	
Unef	Foreign student candidate at ENS	<i>National union of students of France</i>

25, rue de Tournai – 59800 Lille

📞 +33 651882289 • 📞 00892165648623 • ✉️ xuedong.shang@inria.fr
🌐 xuedong.github.io