Xuedong Shang

Curriculum Vitae

2017–2021	PhD in Computer Science , <i>Inria</i> , Lille, France. machine learning, multi-armed bandits, zeroth-order optimization, reinforcement learning
2015–2017	Master of Computer Science , <i>École normale supérieure de Cachan</i> , Rennes, France.
2014–2015	Bachelor of Computer Science , <i>École normale supérieure de Cachan</i> , Rennes, France.
2012–2013	Bachelor of Mathematics , <i>Université Pierre et Marie Curie (Paris VI)</i> , Paris, France.
2008–2011	Mathematical Preparatory Class, <i>Lycée Henri Poincaré</i> , 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
ICML 2020	Gamification of pure exploration for linear bandits , in Proceedings of the 37th International Conference on Machine Learning. Rémy Degenne, Pierre Ménard, Xuedong Shang and Michal Valko
AlStats 2020	Fixed-confidence guarantee for Bayesian best-arm identification , in Proceedings of the 23rd International Conference on Artificial Intelligence and Statistics, Palermo, Italy. Xuedong Shang , Rianne de Heide, Emilie Kaufmann, Pierre Ménard and Michal Valko
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

Education

Workshop Papers

- ICML 2019 A simple dynamic bandit algorithm for hyper-parameter tuning, in 6th ICML
 - AutoML 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

Stochastic bandits with vector losses: Minimizing ℓ^{∞} -norm of relative losses, submitted.

Xuedong Shang, Han Shao and Jian Qian

Simple (dynamic) algorithms for hyper-parameter optimization.

Xuedong Shang, Emilie Kaufmann and Michal Valko

Time series clustering.

Dominique Barbe, Alexandre Debant and Xuedong Shang

Experience

Vocational

October PhD Candidate, SequeL, Inria Lille-Nord Europe, Lille, France.

2017-March Adaptive Methods for Optimization in Stochastic Environments, under the supervision of

2021 Emilie Kaufmann & Michal Valko

March Research Engineer, Noah Ark's Lab, Paris, France.

2020-August Automated Machine Learning, working with Balázs Kégel and Igor Colin

2020

February **Research Internship**, *SequeL*, *Inria Lille-Nord Europe*, Lille, France.

2017-July Hierarchical Bandits for "Black Box" Optimisation and The Monte-Carlo Tree Search, under

2017 the supervision of Emilie Kaufmann & Michal Valko

May Research Internship, Yamamoto-Cuturi Lab., Graduate School of Informatics,

2016-July Kyoto University, Kyoto, Japan.

2016 Optimal Transport Geometry for Machine Learning Problems, under the supervision of

Marco Cuturi

May Research Internship, Magnet, Inria Lille-Nord Europe, Lille, France.

2015–July Recommender System, under the supervision of Marc Tommasi

2015

June **Research Internship**, CNRS Vérimag, Grenoble, France.

2012-July On the Generation of Positivstellensatz Witnesses in Degenerate Cases, under the

2012 supervision of David Monniaux

Others

May Secretary-General, Union des étudiants et chercheurs chinois à Lille (UCECL),

2019-May Lille, France.

2020

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② xuedong.github.io

June $\,$ Member, $\,$ Publicity $\,$ Department, $\,$ Union des étudiants et chercheurs chinois à Lille 2018-May $\,$ ($\,$ UCECL), Lille, France.

2019

July **Summer Internship**, Corporate Banking Department, Industrial and Commercial 2013–August Bank of China, Shanghai, China.

2013

August 2012 **Summer Internship**, *International Business Department*, *Agricultural Bank of China*, Shanghai, China.

Computer skills

Programming C, C++, C#, Objective-C, Swift, languages Java, Python, Julia, Ruby, R, OCaml, Kotlin, Rust, Golang, Scala, Haskell, Elixir, Clojure, Web HTML5/CSS3, Bootstrap, jQuery, JSON/Ajax, JavaScript, Sass, React, D3, Node.js, MongoDB

Bash

Operating Linux, Windows, Mac OS Numerical Maple, Matlab/Octave

systems

Machine scikit-learn, PyTorch, Theano Other LATEX, Git, SVN, Vim, Emacs, learning Jupyter Notebook

Services

NIPS 2017, External Reviewer.

NeurIPS 2019*, 2020**, Reviewer.

ICML 2018, 2019, External Reviewer.

AlStats 2019, External Reviewer.

ICLR 2021, ICLR 2019 Workshop LLD, Reviewer.

RLSS 2019, Organization Committee, Teaching Assistant.

* - top reviewer, ** - best reviewer

Languages

English Full Professional Proficiency TOEIC 925

French Native/Bilingual Proficiency

Chinese Mother Tongue

Mandarin

Chinese Mother Tongue

Shanghainese

Japanese Limited Working Proficiency Spanish Limited Working Proficiency

Interests

Academic Maths, Finance, Neuroscience, e-Education

xuedong.github.io

Sports Football, Basketball, Ski, Cycling, Bouldering

Arts Piano

Extra

Eduinfinity Team leader on computer science courses

A translation group providing chinese subtitles for courses on Coursera.org, edX.org, etc

Wikipedia Wikipedian in English, French, Chinese and Japanese

Unef Foreign student candidate at ENS

National union of students of France