Xuedong Shang

Curriculum Vitae

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- 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

- 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

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

25, rue de Tournai — 59800 Lille $1+33\ 651882289$ • 00892165648623 • 20089216564862 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

Gamification of pure exploration for linear bandits, arXiv preprint.

Rémy Degenne, Pierre Ménard, Xuedong Shang and Michal Valko

Experience

Vocational

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

2017 - Adaptive Methods for Optimization in Stochastic Environments, under the supervision of Emilie Kaufmann & Michal Valko

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

2020-August Automated Machine Learning

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

September Research Project, COSTEL, LETG Rennes, Rennes, France.

2015-May Time Series Clustering, under the supervision of Thomas Corpetti & Romain Tavenard 2016

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

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

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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, Scala, Haskell, Elixir,

Clojure, Rust, Golang, Bash

Operating Linux, Windows, Mac OS

systems

Machine scikit-learn, PyTorch, Theano

learning

Sass, React, D3, MongoDB

Web HTML5/CSS3,

Numerical Maple, Matlab/Octave

Other LATEX, Git, SVN, Vim, Emacs, Jupyter Notebook

jQuery, JSON/Ajax, JavaScript,

Bootstrap,

Node.js,

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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

French Native/Bilingual Proficiency

Chinese Mother Tongue

Mandarin

Chinese Mother Tongue

Shanghainese

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

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

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xuedong.github.io