

## EDUCATION

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- 2019 - present      **LJK, Univ. Grenoble Alpes, MIAI, Grenoble, France**  
PhD in optimization and machine learning.  
Thesis: Minimax optimization and online learning.  
Supervisors: Franck Iutzeler, Jérôme Malick, and Panayotis Mertikopoulos.
- 2018 - 2019      **École normale supérieure Paris-Saclay, Cachan, France**  
MSc degree in Mathematics, Computer Vision, Machine Learning (MVA).  
Grade: 18.05/20 (Success with Highest Honors).
- 2016 - 2020      **École normale supérieure, Paris, France**  
BSc degree and MSc in computer science. Grades: 17.22/20 and 17.6/20.  
ENS graduate degree as *normalien*.
- 2014 - 2016      **Lycée du Parc, Lyon, France**  
Intensive preparatory program leading to competitive entrance exams to French Grandes Écoles.

## RELEVANT EXPERIENCE

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- 2019 Apr. - Sept.      **Jean Kuntzmann Laboratory (UMR 5224 CNRS), Grenoble, France.**  
Research internship- Extragradient and its Variants  
Derived convergence guarantees of several extragradient-type methods for solving variational inequalities, with a focus on stochastic setting.  
Supervised by Franck Iutzeler, Jérôme Malick, and Panayotis Mertikopoulos.
- 2018 Mar. - Aug.      **RIKEN Center for Advanced Intelligence Project, Tokyo, Japan.**  
Research internship- Weakly supervised learning  
Worked on semi-supervised learning, learning with noisy labels and positive-unlabeled learning. Main mathematical tools included concentration bounds and Rademacher complexity.  
Supervised by Gang Niu and Masashi Sugiyama.
- 2018 June - Aug.      **Behaviors.ai, Lyon, France.**  
Research internship- Multimodal learning  
Studied how to learn a shared latent representation from multimodal data through deep learning methods. Some related topics are transfer learning and developmental robotics.  
Supervised by Amélie Cordier and Mathieu Lefort.

## PUBLICATIONS AND PREPRINTS

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- Yu-Guan Hsieh, Franck Iutzeler, Jérôme Malick, and Panayotis Mertikopoulos. *Multi-agent Online Optimization with Delays: Asynchronicity, Adaptivity, and Optimism*. Submitted to **JMLR**, 2020. (Preprint on personal website)
- Yu-Guan Hsieh, Franck Iutzeler, Jérôme Malick, and Panayotis Mertikopoulos. *Explore Aggressively, Update Conservatively: Stochastic Extragradient Methods with Variable Stepsize Scaling*. In **NeurIPS** (Spotlight), 2020.
- Yu-Guan Hsieh, Franck Iutzeler, Jérôme Malick, and Panayotis Mertikopoulos. *On the Convergence of Single-Call Stochastic Extra-Gradient Methods*. In **NeurIPS**, 2019.
- Yu-Guan Hsieh, Gang Niu, and Masashi Sugiyama. *Classification from Positive, Unlabeled and Biased Negative Data*. In **ICML**, 2019.

## MISCELLANEOUS

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- Serve as ICML, NeurIPS and ICLR reviewer.
- Silver medal in International Mathematical Olympiad 2013.
- Languages** Mandarin (native), French (fluent), English (fluent) and Japanese (basic).