Yu-Guan Hsieh

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Education

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. Main subjects: Mathematics and Physics (MP* info).

Relevant Experience

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

- Yu-Guan Hsieh, Franck Iutzeler, Jérôme Malick, and Panayotis Mertikopoulos. *Explore Aggressively, Update Conservatively: Stochastic Extragradient Methods with Variable Stepsize Scaling.* Submitted, 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

- Serve as reviewer for ICML and NeurIPS (among the top 400 in 2019).
- Silver medal in International Mathematical Olympiad 2013.

Languages Mandarin (native), French (fluent), English (fluent) and Japanese (basic).