EDUCATION

2019 - present	LJK, Univ. Grenoble Alpes, MIAI, Grenoble, France PhD in optimization and machine learning. Thesis: Minimax optimization and online learning. Supervisors: Franck lutzeler, 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 <i>normalien</i> .

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

ities, with a focus on stochastic setting.

Supervised by Franck lutzeler, 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 lutzeler, Jérôme Malick, and Panayotis Mertikopoulos. Optimization in Open Networks via Dual Averaging. In CDC, 2021.
- Yu-Guan Hsieh, Kimon Antonakopoulos, and Panayotis Mertikopoulos. Adaptive Learning in Continuous Games: Optimal Regret Bounds and Convergence to Nash Equilibrium. In COLT, 2021.
- Yu-Guan Hsieh, Franck lutzeler, Jérôme Malick, and Panayotis Mertikopoulos. Multi-agent Online Optimization with Delays: Asynchronicity, Adaptivity, and Optimism. arXiv preprint arXiv:2012.11579, 2020.
- Yu-Guan Hsieh, Franck lutzeler, Jérôme Malick, and Panayotis Mertikopoulos. Explore Aggressively, Update Conservatively: Stochastic Extragradient Methods with Variable Stepsize Scaling. In NeurIPS (Spotlight), 2020.
- Yu-Guan Hsieh, Franck lutzeler, 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 ICML, NeurIPS and ICLR reviewer.
- Silver medal in International Mathematical Olympiad 2013.

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