Sothea Has

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EDUCATION

France	**Sorbonne University Pierre and Marie Curie - Paris 6**
2018 - Present	Ph.D student of Statistical Learning under supervision of Mathilde Mougeot and Aurélie Fischer
Research topic	*Consensual aggregation and distance measurements for statistical learning. Theoretical contributions and applications to the field of energy.*

🍂 Combining of supervised & unsupervised machine learning methods for predictions.
🍂 Kernel-based consensual aggregation of several predictors for predictions.
🍂 Consensual aggregation on random projected high-dimensional features.

France	**University Paris Diderot - Paris 7**
2017 - 2018	Master 2 Random Modelling and Data Science (M2MO)
Project	Data Science for Company, Massive Data Processing (R-programming).
Exam	Statistical Learning, Statistical Modeling, Diffusion Statistics, Stochastic Calculus.
Both	Machine Learning (Python), Monte Carlo Method (C++).

France	**École Nationale Supérieure d'Informatique pour l'Industrie et l'Enterprise - ENSIIE**
2016 - 2017	Master 1 Applied Mathematics
Project	Time Series, Simulation Methods, Research Project in Finance, Machine Learning.
Exam	Stochastic Process, Operation Research, Stochastic Calculus in Finance.
Both	Data Analysis, Numerical Methods for PDE, C++.

Cambodia	**Royal University of Phnom Penh - RUPP**
2014 - 2015	Master 1 of Mathematics
2009 - 2013	Bachelor's Degree of Mathematics

PUBLICATIONS

April 2021	🍂 KFC: A clusterwise supervised learning procedure based on aggregation of distances. *Published in Journal of Statistical Computation and Simulation, with Aurélie Fischer and Mathilde Mougeot.*
2021	🍂 Comparison of Various Machine Learning Methods Applied to the Global Modeling of Event-Driven Pitch Angle Diffusion Coefficients During Geomagnetic Storms.
Research topic	*Coupled Feedback Mechanisms in the Magnetosphere-Ionosphere System, abstract accepted in Frontiers, with G. Kluth, J.F. Ripoll, A. Fischer, M. Mougeot, and E. Camporeale.*
2021	🍂 A kernel-based consensual aggregation for regression. *Submitted.*
2021	🍂 Consensual aggregation on random projected high-dimensional features for regression. *In progress.*

EXPERIENCES

2018 - Present	**LPSM (UMR 8001) and UFR Mathematics Université de Paris**
	Ph.D research & teaching:
	❧ Practical class of Data analysis (R-programming).
	❧ Practical class of Data mining (R-programming).
	❧ Tutorial class of Statistical modeling.
2018	**LPSM (UMR 8001) Université de Paris**
April - Sep	M2 internship: Predictive Models based on Clustering with Bregman divergences and Local Predictions
	Analysis of sensitivity of K-means clustering with Bregman divergences on several types of datasets, the construction of the corresponding local models and predictions.
2017	**Laboratory of TELECOM SudParis**
June - Sep	M1 internship: Optimization Problem with Simulated Annealing Algorithm
	The algorithm constructs a sequence of Markov chain to estimate the global optimizer of a given function (deterministic or noisy). I modified some tools to improve the performance of the algorithm.

SCHOLARSHIPS & AWARDS

	LPSM Scholarship
2018 - Present	Ph.D and research funds.
	ENSIIE Scholarship
2017 - 2018	Second year of master's degree.
	Erasmus+ Scholarship
2016 - 2017	First year of master's degree.

LANGUAGES & PROGRAMMING

Languages	Khmer (Mother tongue), English (fluent), French (conversational)
Programming	R, Matlab, Scilab, Python, C++, LaTeX.

PERSONAL INTEREESTS

Reading	Data science, new studies of ML, DL, AI.
Sports	Volleyball, basketball and football.
Other interests	Music, guitar, a little bit piano and drum, drawing.