Sothea Has _____

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EDUCATION _____

France	Sorbonne University - Paris 6
2018 - Present	Ph.D student in Statistical Learning under supervision of Mathilde Mougeot and Aurélie
2010 - Fresent	Fischer
Research topic	Consensual aggregation and distance measurements for statistical learning. Theoretical
nescaren topic	contributions and applications to the field of energy.
	Combining of supervised & unsupervised machine learning methods for predictions.
	Nernel-based consensual aggregation of several predictors for predictions.
	Consensual aggregation of random projected high-dimensional features.
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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++.
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Cambodia	Royal University of Phnom Penh - RUPP
2014 - 2015	Master 1 of Mathematics
2009 - 2013	Bachelor's Degree of Mathematics
PUBLICATIO	NS

- 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 of random projected high-dimensional features for regres-

In progress and will be submitted in the middle of May 2021.

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 _____

France	LPSM Scholarship
2018 - Present	Ph.D and research grant.

France ENSIIE Scholarship

2017 - 2018 Second year of master's degree.

France Erasmus+ Scholarship

2016 - 2017 First year of master's degree.

Cambodia Marubeni Corporation Awards

2010 - 2013 For highest GPA of 3.94/4.00 in the foundation year at RUPP.

Cambodia Ministry of Education, Youth and Sport

2009 - 2013 4-year scholarship for bachelor's degree of mathematics at RUPP.

LANGUAGES & PROGRAMMING _____

Languages Khmer (Mother tongue), English (fluent) and French (conversational).

Programming R, Matlab, Scilab, Python, C++, ŁTEX.

PERSONAL INTEREESTS _____

Reading Data science, new studies of ML, DL, Al.

Sports Volleyball, basketball and football.

Other interests Music, guitar, a little bit piano and drum, drawing.