

Axel Kerinec

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Research Experience

- PhD**, LIPN. 09/2019-05/2023
Call-by-Value λ -calculus.
Supervised by Giulio Manzonetto
- Internship**, I2M. 03/2019-08/2019
Algebraic λ -calculus.
Supervised by Lionel Vaux Auclair
- Internship**, University of Bologna. 10/2018-03/2019
Probabilistic λ -calculus.
Supervised by Ugo Dal Lago
- Internship**, IRIF. 02/2018-06/2018
Taylor expansion of λ -terms in Call-by-Value λ -calculus.
Supervised by Michele Pagani and Giulio Manzonetto
- Internship**, University of Copenhagen. Summer 2017
Investigating when multi-task learning works for documents classification tasks.
Supervised by Anders Søgaard
- School Project**, *Dicotomix Project*. 09/2016-05/2017
Improving writing speed of classical spellers for disabled people.
Working with hospital Pierre-Wertheimer Lyon
- Internship**, Ecole Telecom Bretagne. Summer 2016
Improving Support Vector Machines method with the graph Fourier transform.
Supervised by Vincent Gripon

Teaching Experience

- Computer Science Department DUT Villetaneuse.** 2021-2022
Introduction to Operating Systems; Advance Databases
- Computer Science Department DUT Villetaneuse.** 2020-2021
Introduction to Algorithm and Programming; Python; Architecture and Programming
- Computer Science Department DUT Villetaneuse.** 2019-2020
Data Communication Network; Data Structures and Fundamental Algorithms; Architecture and Programming
- Author**, H&K publisher. 05/2018
Redaction of a corrected version of 'grandes ecoles' entrance exam for H&K publisher.

Publications

- Why Are Proofs Relevant in Proof-Relevant Models?**, A. Kerinec, G. Manzonetto and F. Olimpieri, Symposium on Principles of Programming Languages (POPL 2023).
- Call-By-Value, Again!**, A. Kerinec, G. Manzonetto and S. Ronchi Della Rocca, International Conference on Formal Structures for Computation and Deduction (FSCD 2021).
- Revisiting Call-by-value Bohm trees in light of their Taylor expansion**, A. Kerinec, G. Manzonetto and M. Pagani, Logical Methods in Computer Science (LMCS 2020).
- When does deep multi-task learning work for loosely related document classification tasks?**, A. Kerinec, C. Braud and A. Søgaard, Proceedings of the 2018 EMNLP Workshop BlackboxNLP: Analyzing and Interpreting Neural Networks for NLP.

Education

- Master**, *Ecole Normale Supérieure de Lyon, Computer Science.* **2017-2018**
Automata, Coinduction, and Relational Algebra;
Monadic Second Order Logic, Automata, Expressivity and Decidability;
Implicit Computational Complexity;
Models of Concurrency, Categories, and Games;
Complex Networks;
Lower Bound Methods;
Graph Decompositions: From Tree-Width to Perfect Graphs
- Master**, *Ecole Normale Supérieure de Lyon, Computer Science.* **2016-2017**
Parallel and Distributed Algorithms;
Information Theory;
Optimisation and Approximation;
Performance Evaluation of Networks;
Semantics and Verification;
Programs and Proofs;
Data Bases and Data Mining;
Computational Complexity;
Machine Learning
- License**, *Ecole Normale Supérieure de Lyon, Computer Science.* **2015-2016**
Language theory;
Turing Machines and Automata;
Mathematical Logic;
Probability;
Computer and Network Architecture;
Algorithm Design/Complexity/Implementation
- Preparatory School**, *Centre International de Valbonne (Two years intensive courses preparing the competitive entrance exam to French 'Grandes Ecoles')*. **2013-2015**
Mathematic, Computer Science, Physic
- Scientific Baccalaureat**, *(French secondary school diploma), Honors.* **2013**
Mathematic, Physic, Engineering

Languages

- French**: Native
English: Fluent (CAE level C1)
German: Intermediate (a few years ago level C2)
C++: Intermediate
SQL: Fluent
Python: Fluent
OCaml: Intermediate
HTML: Intermediate

Other Interests

I enjoy a lot self-expression: dance, make-ups, drawings (I used to perform as a drag-queen).
I am also into combat sports.