

Yassine Ghannane

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Education

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| Copenhagen University
<i>PhD in Computer Science</i> <ul style="list-style-type: none">Under the supervision of Jakob Nordström : Algebraic and semi-algebraic proof systems. | 10/2023 – present
<i>Copenhagen, Denmark</i> |
| Cornell University
<i>Msc. in Computer Engineering</i> <ul style="list-style-type: none">Under the supervision of Mohamed Abdelfattah : Mapping and scheduling computational workloads onto heterogeneous hardware systems. | 09/2022 – 09/2023
<i>Ithaca/New York, USA</i> |
| Ecole Polytechnique
<i>Diplôme d'ingénieur in Computer Science and Mathematics</i> <ul style="list-style-type: none">Under the supervision of Benjamin Doerr : Evolutionary algorithms on the symmetric group. | 09/2019 – 09/2022
<i>Palaiseau, France</i> |

Experience

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| Research assistantship
<i>Cornell University</i> <ul style="list-style-type: none">Designed a DNN scheduler and partitionner leveraging structural modularity of graphs.Led to a publication at ICCAD 2023, the premier venue of automated design research.Integrated in parallel the HeteroCL team, contributing to the design of its domain specific intermediate representation for a GPU backend: An MLIR-based Intermediate Representation for Accelerator Design with Decoupled Customizations. | 09/2022 – 07/2023
<i>Ithaca/New York, USA</i> |
| Research assistantship
<i>Ecole Polytechnique</i> <ul style="list-style-type: none">Conducted with my collaborators a theoretical analysis of fundamental evolutionary algorithms in the context of inputs belonging to the set of permutations.Led to a publication at GECCO 2022, the premier venue of evolutionary computation research. | 09/2021 – 09/2022
<i>Palaiseau, France</i> |
| R&D Internship
<i>TrustInSoft</i> <ul style="list-style-type: none">Led a gray-box fuzzing project of a proprietary analyzer, extending the work of : Testing static analyzers with randomly generated programs. | 06/2021 – 09/2021
<i>Paris, France</i> |

Other experiences

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| Mentorship/supervision
<i>Cornell University</i> <ul style="list-style-type: none">Co-supervised master's students : Rahul Jain - Meng. at Cornell Tech (now ML engineer at MIT Lincoln Laboratory). Abhinav Girish - Meng. at Cornell Tech (now CTO at startup). | 09/2022 – 05/2023
<i>Ithaca/New York, USA</i> |
| Teaching <ul style="list-style-type: none">University of Copenhagen (11/2023 – 03/2024): Advanced Algorithms and Data Structures; Cornell University (01/2023 – 05/2023): Optimization; Ecole Polytechnique (10/2021 – 04/2022): Introduction to Probability. | 09/2022 – present |

Invited participant to the Proof Complexity and Beyond workshop 2024

Mathematisches Forschungsinstitut Oberwolfach (MFO)

Research internship prize in Computer Science 2022

Ecole Polytechnique

Academia Foundation grant 2021

Fondation Academia

1500 euros

- Awarded to top-ranked Moroccan candidates in admission exams for top engineering schools in France.

FIRSI scholarship (Bourse Ibn Rochd) 2019 – 2021

Fondation Ibn Rochd

27000 euros

- scholarship awarded to Moroccan students pursuing their studies in highly selective French universities.

Fulgence Bienvenue Excellence scholarship (Runner up) 2019

Ecole Polytechnique

- Scholarship awarded by the Ecole Polytechnique Foundation to the four best ranked students at the entrance exam (ranked third).

Language Skills

English : proficient (TOEFL : 113/120)

French : native speaker

Arabic : native speaker

Japanese : B2 level