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| <b>CONTACTS</b>            | E-Mail Address  | gbetondji.dovonon.22@ucl.ac.uk  |
|                            | Website   | <a href="https://jean72human.github.io/">https://jean72human.github.io/</a> |
| <b>RESEARCH INTERESTS</b>  | Geometric Deep Learning   |   |
|                            | Generalisation and Robustness   |   |
|                            | Neural Algorithmic Reasoning  |   |
| <b>EDUCATION</b>           | <i>Doctor of Philosophy, Computer Science</i>   | September 2022 - <i>present</i>   |
|                            | University College London Foundational AI CDT, London, UK   |   |
|                            | Supervised by: Matt Kusner and Michael Bronstein  |   |
|                            | <i>Master of Science, Machine Intelligence</i>  | January 2021 - May 2022   |
|                            | African Institute for Mathematical Sciences, Mbour, Senegal   |   |
|                            | Thesis: Iterative Weight Prediction with Graph Hypernetworks  |   |
|                            | Supervised by: Michael Bronstein  |   |
|                            | <i>Bachelor of Science, Computer Science</i>  | September 2016 - May 2020   |
|                            | Ashesi University, Berekuso, Ghana  |   |
|                            | Thesis: Scalable Automated Machine Learning   |   |
|                            | Supervised by: Abdul Wasay  |   |
| <b>RESEARCH EXPERIENCE</b> | <i>Research Scientist</i>   | June 2023 - January 2025  |
|                            | Matterhorn Studio, Oxford, UK   |   |
|                            | <ul style="list-style-type: none"> <li>Applying multi-fidelity Bayesian optimisation to material design</li> <li>Supervision: Jakob Zeitler</li> </ul>  |   |
|                            | <i>Research Intern</i>  | January 2022 - April 2022   |
|                            | Vector Institute, Toronto, Canada (remote)  |   |
|                            | <ul style="list-style-type: none"> <li>Supervision: Rahul G. Krishnan</li> </ul>  |   |
|                            | <i>Undergraduate Thesis</i>   | August 2019 - May 2020  |
|                            | Ashesi University, Berekuso, Ghana  |   |
|                            | <ul style="list-style-type: none"> <li>Project: Scalable Automated Machine Learning [download here]</li> <li>Description: Implemented and tested various algorithms for parallel Bayesian optimization used for neural architecture search on multiple GPUs.</li> <li>Supervision: Abdul Wasay</li> </ul>   |   |
| <b>PUBLICATIONS</b>        | 1. <b>Gbetondji JS Dovonon</b> , Michael M Bronstein, Matt J Kusner - <b>Setting the Record Straight on Transformer Oversmoothing</b> - Transactions on Machine Learning Research, 07/2025 ( <b>J2C certification</b> )   |   |
|                            | 2. Georgy Tyukin, <b>Gbetondji JS Dovonon</b> , Jean Kaddour, Pasquale Minervini - <b>Attention Is All You Need But You Don't Need All Of It For Inference of Large Language Models</b> - ICML 2024 Workshop on Theoretical Foundations of Foundation Models  |   |
|                            | 3. Abdul-Hakeem Omotayo, Ashery Mbilinyi, Lukman Ismaila, Houcemeddine Turki Mahmoud Abdien, Karim Gamal, Idriss Tondji, Yvan Pimi, Naome A Etori, Marwa M Matar, Clifford Broni-Bediako, Abigail Oppong, Mai Gamal, Eman Ehab, <b>Gbetondji Dovonon</b> , Zainab Akinjobi, Daniel Ajisafe, Oluwabukola G Adegboro, Mennatullah Siam - <b>A The State of Computer Vision Research in Africa</b> - Journal of Artificial Intelligence Research |   |

4. **Gbetondji JS Dovonon**, Jakob Zeitler - **Long-run Behaviour of Multi-fidelity Bayesian Optimisation** - NeurIPS 2023 Workshop on Adaptive Experimental Design and Active Learning in the Real World
5. Abdul Hakeem Omotayo, Mai Gamal, Eman Ehab, **Gbetondji Dovonon**, Zainab Akinjobi, Ismaila Lukman, Houcemeddine Turki, Mahmoud Abdien, Idriss Tondji, Abigail Oppong, Yvan Pimi, Karim Gamal, Mennatullah Siam - **Towards a better understanding of the computer vision research community in africa** - Proceedings of the 3rd ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization
6. A Lynch, **GJS Dovonon**, J Kaddour, R Silva - **Spawrious: A benchmark for fine control of spurious correlation biases** - ICLR 2025 Workshop on Spurious Correlation and Shortcut Learning: Foundations and Solutions

## COMPETITIONS

1. AI Mathematical Olympiad - Progress Prize 2  
- Bronze medal (128th/2212)
2. AMMI 2021 Kaggle In-Class competition - Cassava disease classification  
- First
3. Zindi CGIAR Wheat Growth Stage Challenge (October 2020)  
- Top 5% (11th/204)
4. Zindi Basic Needs Basic Rights Kenya - Tech4MentalHealth (July 2020)  
- Top 1% (7th/501)
5. Google HashCode 2019  
- First at national level (Ghana)

## ACADEMIC AWARDS

**Full Scholarship** - *African Masters of Machine Intelligence* January 2021 - May 2022  
(Acceptance rate: 6%)