

<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>	<p><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</p> <p><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</p> <p><i>Bachelor of Science, Computer Science</i> September 2016 - May 2020 Ashesi University, Berekuso, Ghana Thesis: Scalable Automated Machine Learning Supervised by: Abdul Wasay</p>	
<b>RESEARCH EXPERIENCE</b>	<p><i>Research Scientist</i> June 2023 - <i>present</i> Matterhorn Studio, Oxford, UK</p> <ul style="list-style-type: none"> <li>Applying multi-fidelity Bayesian optimisation to material design</li> </ul> <p><i>Research Intern</i> January 2022 - April 2022 Vector Institute, Toronto, Canada (remote)</p> <ul style="list-style-type: none"> <li>Supervision: Rahul G. Krishnan</li> </ul> <p><i>Undergraduate Thesis</i> August 2019 - May 2020 Ashesi University, Berekuso, Ghana</p> <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>	<ol style="list-style-type: none"> <li>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</li> <li>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 Survey on African Computer Vision Datasets, Topics and Researchers</b> - arXiv preprint arXiv:2401.11617</li> <li><b>Gbetondji JS Dovonon</b>, Michael M Bronstein, Matt J Kusner - <b>Setting the Record Straight on Transformer Oversmoothing</b> - arXiv preprint arXiv:2401.04301</li> </ol>	

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** - arXiv preprint arXiv:2303.05470

## ACADEMIC AWARDS

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

## COMPETITIONS

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