Samson Odan

Curriculum Vitae

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Education

2025–Present	**PhD in Cognitive and Computational Neuroscience**, *Max Planck School of Cognition*, Leipzig, Germany Advisors: Prof. Jürgen Jost and Dr. Andrej Bićanski
2023–2024	**MSc in Artificial Intelligence and Adaptive Systems**, *University of Sussex*, Brighton, UK Advised by: Dr. Adam B. Barrett
2009–2014	**B.Eng. in Mechanical Engineering**, *Ahmadu Bello University*, Zaria, Nigeria Advised by: Prof. Laminu S. Kuburi

Research Experience

2025–Present	**Doctoral Researcher**, *Neural Computation Group, Max Planck Institute for Human Cognitive and Brain Sciences*, Leipzig, Germany, with Dr. Andrej Bićanski
2025–Present	**Doctoral Researcher**, *Geometry and Complex Systems Group, Max Planck Institute for Mathematics in the Sciences*, Leipzig, Germany, with Prof. Jürgen Jost
2024–2025	**Research Collaborator**, *MESEC, Mediterranean Society for Consciousness Science*, Corsica, France, with Prof. Guillaume Dumas **Project**: *Exploring Consciousness through Social Interactions: A Neuro-AI Approach*
2023–2024	**Research Assistant**, *Sussex Centre for Consciousness Science, University of Sussex*, Brighton, UK, Department of Informatics, with Dr. Adam B. Barrett **Project**: *Complexity Measures and States of Consciousness*
10/2023–01/2024	**Lab Assistant**, *Future Technology Lab., University of Sussex*, Brighton, UK, with Dr. Chris Johnson **Project**: *Towards Adaptive Machines: Synaptic Homeostasis in Robotics*
2012–2014	**Teaching Assistant**, *Ahmadu Bello University*, Zaria, Nigeria Conducted tutorials in Mathematics, CAD, and Programming.

Industry Experience

02/2020–09/2023	**Data Specialist**, *UBA Group*, Lagos, Nigeria Led large-scale analytics; built ML models and statistical pipelines to improve decision-making.
06/2019–10/2019	**Data Analyst Intern**, *Dataville Research LLC*, Lagos, Nigeria Analysed regional survey data and developed monitoring dashboards for NGOs.
2018–2022	**Creative Director & CTO**, *HabincciHub*, Lagos, Nigeria, Hybrid Co-founded an agri-tech startup; led technical development and product execution.

Publications and Preprints

2024	**Odan, S.**, & Barrett, A. (Supervisor). *Complexity Measures in Diverse Dynamical Regimes and Their Application to States of Consciousness. Mathematical and Computational Biology*. DOI.
2024	**Odan, S.** *Metaheuristic Method for Solving Systems of Equations. Neural and Evolutionary Computing (cs.NE)*. arXiv.

Conferences and Talks

2026	**Talk**, *Head-Direction Coding in Complex Terrain*, Neural Geometry Workshop, Max Planck Institute for Mathematics in the Sciences, Leipzig
2025	**Talk**, *Statistical Complexity Distinguishes Different States of Consciousness*, Harnack Haus, Berlin, Germany, Max Planck School of Cognition — Welcome Days
11/2024	**Poster**, *Statistical Physics of Cognition Workshop*, Institute of Physics, London, UK
10/2024	**Poster**, *SCCS New Lab Launch*, University of Sussex, Brighton, UK
09/2024	**Talk**, *MESEC Workshop 2024*, Corsica, France, Chair: Prof. Thomas Metzinger
06/2024	**Poster**, *Sussex AI Day*, University of Sussex, Brighton, UK

Awards and Scholarships

2023	Sussex Nigeria Scholarship, University of Sussex
2012	Innovative Young Engineers Award, Nigerian Society of Engineers
2003–2006	Full Scholarship, Christ Comprehensive Schools, Kaduna

Extracurricular Activities

2024–Present	Member, Mediterranean Society for Consciousness Science (MESEC)
2024–Present	Founding Member, Consciousness Society Sussex

Personal

Languages	English (Fluent), Igede (Native), German (Basic)
Google Scholar	[Google Scholar Profile](#)