Curriculum vitae

Personal information

Full name:	Jabir Ali Ouassou		
Date of birth:	1990–12–19	Sex:	Male
Nationality:	Norwegian		
Languages:	Norwegian (native), English (fluent), French (intermediate), Korean (beginner), Arabic (beginner), Russian (beginner).		
Researcher profiles:	Google Scholar: Jabir Ali Ouassou GitHub: jabirali ORCID: 0000-0002-3725-0885		

Employment

Year	Description
2023–	Associate Professor. Department of Computer Science, Electrical Engineering and Mathematical Sciences, Western Norway University of Applied Sciences, Norway.
2021–2023	Postdoctoral Fellow. Center for Quantum Spintronics, NTNU, Norway.
2019–2021	Research Scientist. Department of Gas Technology, SINTEF Energy Research, Norway.
2008–2009	Summer jobs as a Linux system administrator. Norwegian Mapping Authority, Norway.

Education

Year	Description
2015–2019	PhD: “Manipulating superconductivity in magnetic nanostructures in and out of equilibrium”. Center for Quantum Spintronics, NTNU, Norway.
2010–2015	MSc: “Density of states and critical temperature in superconductor/ferromagnet structures with spin-orbit coupling”. Department of Physics, NTNU, Norway.
2013–2014	One-year exchange program. Department of Physics, KAIST, South-Korea.
2009–2010	One-year study program. Department of Chemistry, NTNU, Norway.

Awards

Year	Description
2020	Yara’s Birkeland Prize – a 100,000 NOK national award for the best PhD thesis in Physics.
2009	National finalist in the Chemistry Olympiad for high school students in Norway.

Track record

As of June 2023, I have a career length of 4 years since my PhD defense and have in that time accrued an **h-index of 11** and an **i10-index of 13**. As can be seen from my complete academic track record, my publication record includes over 20 peer-reviewed journal papers in addition to conference papers, technical reports, a book chapter, and open-source scientific software.

Teaching experience

Year	Description
2023	Lecturer for the master-level course "Quantum Theory of Solids". Duties included weekly lectures, preparing lecture notes and assignments, and creating and grading the exam.
2022	Occasional substitute lecturer for the bachelor-level physics courses "Quantum Mechanics I" and "Quantum Mechanics II".
2015–2016	Lab assistant in the introductory electronics courses "Measurement techniques" and "Instrumentation" for 3rd-year students at NTNU as part of my PhD teaching duties.
2013	Teaching assistant in "Introduction to quantum physics", a compulsory course for 2nd-year students of physics at NTNU. I also wrote a 50-page compendium that summarizes the curriculum, which is sold and distributed by Nabla – a student association at NTNU.
2011–2015	Teaching assistant in various mathematics courses at NTNU: "Calculus I", "Basic Calculus II", and "Statistics with applications".
2010	Lab assistant in the course "General chemistry" for 1st-year chemistry students.

Supervision experience

Year	Description
2022–2023	Main supervisor for a master student in physics. Thesis: "Paramagnetic Meissner effect and non-equilibrium vortices in superconductor/normal-metal structures." Grade: A.
2019–2021	Co-supervisor for three Summer Researchers at SINTEF Energy Research. I was the *de facto* main supervisor for programming-related aspects of their projects while another supervisor took the lead on the domain-specific aspects.

Other pedagogical experiences

Year	Description
2023	Completed NTNU's "Development of a pedagogical portfolio" seminar, which is a 20-hour module from the university pedagogics program "Uniped".
2022	Completed NTNU's "PhD supervision seminar", which is a three-day seminar that prepares research staff at NTNU to supervise PhD candidates.
2022	Internal examiner for (i) an MSc thesis on the physics of curved nanostructures and (ii) a PhD course on molecular beam epitaxy.
2020	External examiner for (i) an MSc thesis on unconventional superconductivity and (ii) a PhD course on the quasiclassical theory of superconductivity.
2012	Completed NTNU's "Læringsassistentopplæringskurs" (LAOS seminar), a 20-hour pedagogical training seminar offered to teaching assistants.

Project management experience

Year	Description
2020–2021	Co-management of the 1.5-year project "Hydrogen4EU" at SINTEF Energy Research. My duties included: Breaking down the project description into a list of actionable tasks, and drafting an initial budget based on this list and our available funding (>1M€); Organizing bi-weekly meetings with the research team to follow up their progress and budget usage, adjusting the project budget accordingly, and communicating progress and delays to the main project manager; Assisting with preparing official reports to the consortium.

Grant application experience

Year	Description
2021	Independent grant application to the Research Council of Norway. The proposed project "Novel Phenomena in Superconductor/Ferroelectric Hybrids" was not funded – but received the assessment "Excellent" (6/7) on all points.
2019	Co-author on a successful application for internal funding at SINTEF for "Integrate" (née GET), a project to foster collaboration across the Departments of Gas Technology, Energy Systems, and Thermal Energy on interdisciplinary energy system modeling.

Other relevant experiences

Year	Description
2022	Main organizer of the "QuSpin Idea Forum" at the Center for Quantum Spintronics. This is a biweekly meeting for PhDs and PostDocs to discuss research challenges that they are struggling with, gather feedback on ideas for new papers, as well as a platform for sharing theoretical methods, software libraries, etc. that may be of common interest.
2021–	Member of "Norsk Fysisk Selskap" (NFS) – a Norwegian network for physicists.
2019	Main organizer of a half-day internal workshop at SINTEF Energy Research as part of the GET project. This included inviting speakers from the Departments of Gas Technology, Energy Systems, and Thermal Energy to share their research on the topic of energy systems modeling, as part of preparations for an internal application for research funding.
2016–	Referee for the American Physical Society. This includes refereeing manuscripts for the journals "Physical Review Letters", "Physical Review B", and "Physical Review Applied".
2017–2018	Member of the "Council for the PhD study program in Physics and in Biophysics" at NTNU. Duties included assessing and approving research proposals from new candidates, as well as being involved in decision-making relevant to the PhD study programme.
2010–2015	Active member of "Programvareverkstedet" (PVV) – NTNU's computer club.