

LUKAS SCHIRREN

London, UK

lukas.schirren@imperial.ac.uk**Education**

2025 – 28	IMPERIAL COLLEGE LONDON PhD , <i>Advancing Energy System Modelling for Energy Resilience and Deep Decarbonisation</i> <ul style="list-style-type: none"> Working on uncertainty quantification, geospatial analysis, and integrating machine learning in energy systems Attended conferences in Japan, Laos, Denmark, and Germany 	LONDON, UK
2023 – 24	IMPERIAL COLLEGE LONDON MSc Sustainable Energy Futures , <i>distinction</i> , energy engineering & policy degree. <ul style="list-style-type: none"> Student representative and co-organiser of a student hackathon with 50 attendees. Selected from 130 applicants for the semi-finals of the “Climate Investment Challenge”, with a chance to win £10,000. Proposed a microfinance solution backed by blended capital for solar water pumps in Africa. Attended a 2-week summer school at South China University of Technology in Guangzhou on electricity markets 	LONDON, UK
2018 – 22	TECHNICAL UNIVERSITY OF BERLIN BSc Industrial Engineering and Management , <i>German Grade: 1.6, Top 8% in cohort (First class honours)</i> <ul style="list-style-type: none"> Specialisation in information and communication technologies. Learned Python, SQL, and assembly. 	BERLIN, DE
2021 – 22	INSA LYON Exchange Semester at Department of Telecommunication , <i>French Grade: 16/20 (First class honours)</i> <ul style="list-style-type: none"> Focused on modules such as Computer Networks, Signal and Image Processing, Data Mining, and developed a GoLang-based database praised by my professor. 	LYON, FR

Experience

Oct 2024 – present	IMPERIAL COLLEGE LONDON Research Associate <ul style="list-style-type: none"> Whole Energy Systems Modeller under Prof Adam Hawkes, collaborating on a project with the University of Oxford, UCL, and TUM on rebuilding critical infrastructure in Ukraine and exploring green hydrogen production. 	LONDON, UK
Apr – Jul 2023	TESLA Project Engineer Intern Part of the Cross Shop Projects Team, responsible for mission-critical projects and interdisciplinary processes. <ul style="list-style-type: none"> Developed a business case for recycling batteries worth <u>over 1 Mio. €</u> Operationalisation of permit compliance into an IT system with a BPMN flow chart Coordinated and led a small group of factory workers to create a tool area for manufacturing. 	BERLIN, DE
Sep 2022 – Feb 2023	DEUTSCHE TELEKOM Data Scientist Intern <ul style="list-style-type: none"> Developed an algorithm to streamline the production of weekly sales, resulting in time savings of <u>over 10 hours per week</u>. CFO presented this effort at the company’s finance conference. Computed a machine learning model in Python and increased the accuracy of forecasting roaming costs. 	BONN, DE
Jan – Apr 2022	ECOPALS Management Assistant Intern Start-Up for more sustainable road construction by using specific recycled plastics. <ul style="list-style-type: none"> Led financial analysis for seed round fundraising, worked closely with founders and participated in discussions with investors. The company successfully closed the seed round, raising <u>1.5m €</u>. 	BERLIN, DE
Mar 2020 – Mar 2021	BCG Student Intern <ul style="list-style-type: none"> Further development of corona assessment tool on an internal consulting project Creation of weekly PowerPoint presentation materials for the leadership team 	BERLIN, DE

Volunteering

Feb 2025 – present	CLIMATE ED Climate Change Educator (Delivering workshops in primary schools)	LONDON, UK
Dec 2024 – Mar 2025	UNITED NATIONS VOLUNTEERS (AI for Climate Action) Team Leader - Academic Editing of Research Articles	ONLINE
Jan 2020 – Jan 2023	BOY SCOUTS MARIENHOEHE Chair of the Board <ul style="list-style-type: none"> Managed the legal and financial matters for the Central Berlin association with 150 members. Led a group and negotiated with state representatives to successfully secure <u>1m € of state subsidy</u>. 	BERLIN, DE

Personal

Road cyclist with competitive experience, ranked 31st of over 10,000 at VeloCity 2023. Passionate piano player.