

# ALEXIA ALEXANDER WIGHT



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## EDUCATION

### **Astroparticle Physics PhD | current | University College London**

Working with Dr Matteo Agostini on the P-ONE experiment, a large-volume Cherenkov detector in the Pacific Ocean, studying astrophysical neutrinos.

### **Physics MSc | 2024 | Distinction | King's College London**

Modules focussing on particle physics, averaging 84%. Project was with Dr Teppei Katori, looking at using astrophysical neutrinos as interferometers to probe new physics, received 1<sup>st</sup> (80%).

### **Secondary Science (Physics) PGCE | 2019 | University College London**

Completed professional placements working as a teacher in two separate secondary schools, teaching the 11-18 age group. Taught GCSE and A-level exam topics.

### **Physics BSc | 2018 | 2:1 | Imperial College London**

3rd year project with Prof Henrique Araujo: searching for astrophysical sterile neutrinos via coherent elastic nuclear-neutrino scattering, received 1<sup>st</sup> (83%).

## AWARDS

### **IEP PGTA Teaching Excellence Award | 2026 | University College London**

Awarded in the Best Assessment & Feedback category for contributions to assessment and feedback during a period of significant change and leading the team that marked 500 reports.

### **Bell-Burnell Scholar | 2025 | Institute of Physics**

Scholarship awarded for my current and future advocacy and ambassadorship of minoritised groups in physics, in particular disabled students.

### **Alan Michette Prize | 2024 | King's College London**

Awarded for my contributions to outreach and education, including my work with the outreach team, my work as a graduate teaching assistant, and more.

### **Teacher Training Scholarship | 2018-2019 | Institute of Physics**

Scholarship awarded during my teacher training year based on physics knowledge and physics aptitude. Included a professional development programme to boost my teaching.

## RESEARCH EXPERIENCE & SUMMER SCHOOLS

### **LHCb & CERN Summer Student Programme 2023 | Jun '23 – Aug '23 | CERN**

Worked to build a "Simulation Wizard" browser that makes browsing and searching LHCb simulation samples more accessible. Presented my project as a poster and a talk.

### **International Teacher Weeks Programme 2022 | Jul '22 – Aug '22 | CERN**

Teaching focussed summer school that included visiting many of the major CERN experiments and designing science communication and teaching tasks based around CERN research.

## WORK

### **HEPP Committee Member | Sep '25 – current | Institute of Physics**

Member of High Energy Particle Physics Group for the Institute of Physics, the UK's professional body for physics. Organise and support particle physics events such as the annual conference, and manage social media communications.

### **Senior Postgraduate Teaching Assistant | Sept 23' – current | UCL & King's**

Supported second year physics students at King's in labs and applied physics group projects, including marking and assessing presentations. At UCL, worked closely with my supervisor to design and run self-marking assessments for a graduate-level statistics course. Also organised and led the marking of communications reports, training new TAs, coordinating calibration, and developing a new rubric to combat AI-driven writing.

### **Science Outreach Ambassador | Sep '15 – current | Freelance**

Worked in multiple science outreach roles over the past decade. Most recently, delivered workshops with Orbyts, leading secondary school students in conducting their own research.

Created illustrations and infographics for the Institute of Physics supporting science communication and teaching, and completed independent illustration work of particle physics concepts. Currently maintain a public social media platform, @MissNeutrino, documenting experiences as a PhD student, astroparticle physics research, and advocacy for minoritised groups in STEM, particularly disabled students. Previous outreach includes teaching coding and serving as a student ambassador at both Imperial and King's.

### **Core Team Member | Feb '19 – Aug '21 | Chat Physics**

Part of the core team for Chat Physics, organising and coordinating opportunities for physics teachers to network and develop their subject knowledge and pedagogical practice. Responsibilities involved organising weekly CPD and organising an online conference in 2021.

### **Physics Teacher | Jul '19 – Aug '21 | LDE UTC, London**

Worked as a physics and engineering teacher for 14-to-19-year-old students. Developed schemes of work for teaching and introduced a module that introduced students to scientific writing. Also ran extracurriculars including physics project clubs and supporting students in taking part in various levels of the British Physics Olympiad.