

# THOMAS BAILEY

PhD Candidate in Physics — Seeking Trainee Patent Agent and Science Policy Opportunities

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## PROFESSIONAL SUMMARY

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Physics PhD candidate specializing in experimental quantum optics, with expertise in technical analysis, scientific research, and communication. Skilled in evaluating complex technologies, engaging stakeholders, and translating technical concepts into clear, actionable insights. Passionate about advancing innovation through intellectual property and science policy. Seeking a Trainee Patent Agent or science policy position to apply my scientific expertise, analytical thinking, and technical writing skills to protect cutting-edge technologies and shape science-driven policy solutions.

## EDUCATION

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**PhD in Physics** 2020 – September 2025 (Expected)  
*University of Ottawa, Canada*  
Thesis: “Novel Methods and Applications of Weak Measurements in Optics”

**MPhys in Physics (4-Year Integrated Masters)** 2016 – 2020  
*University of Oxford, United Kingdom*  
First Class, Ranked 5th in cohort (85% average).

## RELEVANT SKILLS

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**Technical Writing:** Crafting precise descriptions of complex scientific phenomena and experimental setups.

**Research & Analysis:** Conducting thorough literature reviews and systematic data analysis.

**Interdisciplinary Communication:** Translating complex physics concepts for diverse audiences.

**Attention to Detail:** Ensuring accuracy and precision in technical documentation.

**Project Management:** Coordinating research projects with multiple stakeholders and timelines.

## EXPERIENCE

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**Mathys & Squire** December 2018  
*Work Experience in Patent Law* London, United Kingdom

- Gained practical knowledge of patent content structure and application processes.
- Reviewed technical patent examiner reports and drafted a response letter under supervision.
- Learned about prior art searches and patent claim drafting considerations.

**Koralli Consulting** November 2019 – Present  
*Research Consultant & Co-Founder* Oxford, United Kingdom (Remote)

- Researched and wrote articles on technology adoption and quantum technologies.
- Strengthened technical communication and interdisciplinary teamwork.
- Participated in business strategy and value proposition development discussions.

**University of Ottawa** September 2020 – April 2025  
*Teaching Assistant* Ottawa, Canada

- Explain complex physics concepts with precision and clarity through lectures and written materials.
- Provide detailed technical feedback on student work, emphasizing accuracy and logical reasoning.
- Serve as CUPE 2626 Union Steward; awarded 2023 Departmental Peer Mentorship Award.

**Support Our Science** March 2023 – Present  
*Executive Director (Aug 2025 – Present); Executive Council (Mar 2023 – Aug 2025)* Ottawa, Canada

- Led a research project analyzing minimum stipend levels across Canada.
- Coordinating grassroots efforts to support the Vote Science campaign in the 2025 Federal election.
- Advocated for graduate research funding through stakeholder engagement.

## LANGUAGES

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English (Native/Fluent)