

See my website: <https://adventuresoftim.com>

Tim Child
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EDUCATION

The University of British Columbia, Vancouver, BC

Doctor of Philosophy in Physics

Stewart Blusson Quantum Matter Institute (SBQMI) affiliate

Honors: President's Academic Excellence Initiative PhD Award Recipient
QuEST Scholar, Ph.D. (Quantum Electronic Science and Technologies Doctoral Award)

Activities: SBQMI New Graduate Student Peer Mentoring Program, *Mentor*
UBC Engineering Physics, *Teaching Assistant*

University College London Institute of Education, London, UK

Post-Graduate Certificate in Education, 2016 – 2017

Honors: The Institute of Physics Teacher Training Scholarship
Qualified Teacher Status

Imperial College London, London, UK

Bachelor of Science in Physics, 2011 – 2014

Honors: First Class Honors

Activities: Imperial College Exploration Society, *Chair*
Imperial College Caving Club, *Expedition Member*
Jiu Jitsu (Aiuchi) Club, *Member*

PUBLICATIONS

Child, T. (2024). Direct entropy measurements in mesoscopic systems: from proof of concept to the Kondo regime. *University of British Columbia*.

Child, T., Sheekey, O., Lüscher, S., Fallahi, S., Gardner, G. C., Manfra, M., & Folk, J. (2022). A Robust Protocol for Entropy Measurement in Mesoscopic Circuits. *Entropy*, 24(3), 417.

Child, T., Sheekey, O., Lüscher, S., Fallahi, S., Gardner, G. C., Manfra, M., Mitchell, A., Sela, E., Kleerorin, Y., Meir, Y., & Folk, J. (2022). Entropy Measurement of a Strongly Coupled Quantum Dot. *Physical Review Letters*, 129(22).

EXPERIENCE

AthenaInstruments, Vancouver, Canada

2024 – 2025

Founder & Developer

Developed a full web application from scratch utilizing cutting edge generative AI technologies to create an application that enables users to create custom model-agnostic agentic workflows, utilizing cyclic

graph processing. Custom data pipelines were integrated to enable efficient and effective retrieval augmented generation. A tech stack centered around the python ecosystem, as well as modern software practices including automated testing and continuous integration and deployment workflows were used to produce a highly scalable and robust application.

Stewart Blusson Quantum Matter Institute (SBQMI), UBC

2018 – 2024

Researcher

Fundamental research in condensed matter physics, specifically in electronic transport measurements of mesoscopic quantum devices; including extensive work with device fabrication, data analysis, and dilution refrigerators.

Private Tutor, London, UK

2012 – 2018

Maths and Sciences

Over 2000 hours experience acquired during and post undergraduate degree; tutoring students from KS1-3, GCSE, A-Level (ages 5 – 18+), specialising in A-Level Maths, Further Maths, Physics, and Chemistry.

Redev Ltd, Leeds, UK

2009 – 2011

Intern

Paid work during school holidays at a software development company that provides bespoke software solutions to clients ranging from international blue chip organisations to SMEs.

SKILLS/INTERESTS

Programming

Python, SQL, Bash, Docker, Javascript, GHA, Lua, Go, C++, Igor (C-like equivalent of Matlab), ...

Fabrication Qualifications

Machine Shop Certified (UBC), Chemical Safety Course (UBC), Electron Beam Lithography System, Electron Beam Evaporator, ISO 5 Cleanroom, Atomic Force Microscope, Thermal Evaporator.

British Exploring Society

The British Exploring Society is a world-renowned youth development charity that focuses on learning through exploration in some of the world's most extreme environments. In 2011, I participated as a Young Explorer on a 3-week expedition to Arctic Svalbard. I returned in 2012 as a Trainee Leader in Arctic Norway, where I was guiding a group of 12 Young Explorers on a 6-week expedition. Additionally, throughout my undergraduate years, I volunteered in the charity's head office.

Other

Skiing, Snowboarding, Surfing, British Sub-Aqua Club (BSAC) Sport scuba diver.

Citizenship

UK, USA, Canada (PR pending)

Links

<https://adventuresoftim.com>

<https://github.com/TimChild>

<https://www.linkedin.com/in/tim-child-000/>

<https://stackoverflow.com/users/12620905/tim-child>