

Anita Buckley — Resume

Faculty of Informatics, Università della Svizzera italiana (USI), Lugano, Switzerland

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Personal Information

Born July 18, 1975, in Ljubljana, Slovenia

Nationality: Slovene and Irish – Married, four children

Research Interests

Quantum systems with focus on distribution, programming languages, quantum information theory, algebra.

Education

- **2022-** PhD candidate in computer science (due February 2027), USI Lugano, Switzerland
Dissertation topic: *Quantum Network Protocols*
Advisors: Prof. Patrick Eugster and Prof. Pavel Chuprikov
- **2019-2021** MSc in Computer Science, USI Lugano, Switzerland
Thesis title: *The Mathematics of Quantum Information Theory: Quantum Entanglement*
Advisors: Prof. Stefan Wolf and Dr. Charles Alexandre Bédard
- **1999-2003** PhD in Mathematics, University of Warwick, UK
Dissertation title: *Orbifold Riemann–Roch for Threefolds and Applications to Calabi–Yaus*
Advisors: Prof. Miles Reid and Prof. Balázs Szendrői
- **1994-1998** BSc in Mathematics, University of Ljubljana, Slovenia
Thesis title: *Determinantal Representations* – Advisor: Prof. Tomaž Košir

Positions

- **2022-** Doctoral assistant at the Faculty of Informatics, USI Lugano, Switzerland
- **2010-2019** Assistant professor for mathematics at the University of Ljubljana, Slovenia¹

Publications

- A. Buckley, P. Chuprikov, R. Otoni, R. Soulé, R. Rand, and P. Eugster. 2024. An Algebraic Language for Specifying Quantum Networks. *Proceedings of the ACM on Programming Languages*, 8(PLDI):1-23. <https://doi.org/10.1145/3656430>
- A. Buckley, P. Chuprikov, R. Otoni, R. Rand, R. Soulé, and P. Eugster. 2023. Towards an Algebraic Specification of Quantum Networks. *Proceedings of the 1st Workshop on Quantum Networks and Distributed Quantum Computing (QuNet'23)*, pages 7–12. <https://doi.org/10.1145/3610251.3610557>

Talks and Invitations

- Summer School Marktoberdorf. 2025. *MOD25: Specification and Verification for Secure Cyberspace*.
- Anita Buckley. 2025. From Physical Experiment to Language. *Critical Natural Philosophy III* (Talk).
- Anita Buckley, Pavel Chuprikov, Rodrigo Otoni, Robert Rand, Robert Soulé and Patrick Eugster. 2024. Specification and Verification of Quantum Network Protocols. *WQRN'24: Workshop on Quantum Repeaters and Networks* (Poster).
- Anita Buckley and Klemen Sivic. 2023. New entanglement witnesses and entangled states. *QPL'23: Conference on Quantum Physics and Logic* (Talk).

¹Career shift due to the relocation of the family. See CV in <https://swsystems.usi.ch/author/anita-buckley>.