

Piotr Kozicki

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Research interests. Mathematical foundations of computation and verification, especially using category theory and logic; programming languages; (homotopy) type theory; modal and program logics, and their semantics; linear logic and concurrency.

Education

2026–present	Ph.D. Computer Science, University of Bristol. Supervised by Dr. Alex Kavvos. EPSRC DLA Scholarship.
2025–2026	M.Sc.R. Computer Science, University of Bristol. Supervised by Dr. Alex Kavvos. VeTSS Research Award. Thesis: “Relational Stone-type Dualities and Logic”.
2022–2025	B.Sc. Mathematics and Computer Science, University of Bristol. First class.
Jun–Sept 2025	Research internship with Dr. Alex Kavvos. Relational Stone-type dualities. Funded by AR+IA under “Safeguarded AI”.
Jun–Sept 2024	Research internship with Dr. Sam Frohlich. Functional logic programming. Funded by Bristol PLRG.
Jun–Sept 2023	Research internship with Dr. Roly Perera. Probabilistic programming. Funded by Bristol PLRG.

Research

- [1] Piotr Kozicki. “Relational Stone-type Dualities and Logic”. NB Awaiting examination in October. Master’s thesis. University of Bristol, Sept. 2026.
- [2] Piotr Kozicki and G. A. Kavvos. “Relational Dualities and Bisimulation”. In: *11th International Conference on Formal Structures for Computation and Deduction (FSCD 2026)*. Ed. by Frank Pfenning. Vol. 378. Leibniz International Proceedings in Informatics (LIPIcs). Schloss Dagstuhl – Leibniz-Zentrum für Informatik, 2026, 20:1–20:18. ISBN: 978-3-95977-433-8. DOI: [10.4230/LIPIcs.FSCD.2026.20](https://doi.org/10.4230/LIPIcs.FSCD.2026.20). URL: <https://drops.dagstuhl.de/entities/document/10.4230/LIPIcs.FSCD.2026.20>.

Teaching

University of Bristol (2023–present).

- Y1 Computer Science Programme Tutorials (2023/24 TA; 2024/25 TA; 2025/26 lead TA; 2026/27 unit director)
- COMS30040 Types and Lambda Calculus (2026/27 TA)
- COMS10018 Algorithms I (2023/24 TA; 2024/25 TA; 2026/27 TA)

- COMS10016 Functional Programming (2023/24 TA; 2024/25 TA)
- COMS10016 Imperative Programming (2023/24 TA; 2024/25 TA)
- COMS10018 Object-Oriented Programming (2023/24 TA; 2024/25 TA)

Winchester Maths Summer School (July 2023)

- Taught proof methods to sixth-form students at a week-long summer school.

Conferences and Summer Schools

Verified Trustworthy Software Systems (VeTSS) annual conference 2025, 2026; funded for VeTSS summer school 2026. South of England Regional Programming Languages Seminars (S-REPLS) 13, 14, 15, 17, 18. Funded for Southern and Midlands Logic Seminar (SMLS) 9, 13. Presented at FSCD/FLoC 2026. Partially funded for the Australian National University (ANU) Logic Summer School (LSS) 2026.

Competitions

UKIEPC 2024	Teamname “Grzegorz Bręczyszczkiewicz Brzmi w Trzcinie”. Won at the University of Bristol and qualified for NWERC.
NWERC 2024	Teamname “Grzegorz Bręczyszczkiewicz Brzmi w Trzcinie”. Representing and funded by the University of Bristol. Finished 49th.

Other

University of Bristol CathSoc (2023–2025)

- 2024/2025 President. Responsible for group direction, managing committee members, and long-term finances.
- 2023/2024 Treasurer. Responsible for group spending and long-term finances.