

Sean Watters

Curriculum Vitae

University of Strathclyde
Glasgow, Scotland
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Education

- 2021–Date **PhD Computer and Information Sciences**, *University of Strathclyde*
Supported by EPSRC Mathematical Sciences DTP grant EP/W52394X/1.
Supervisors: Dr. Clemens Kupke & Dr. Fredrik Nordvall Forsberg.
- 2018–2021 **BSc (Hons) Computer Science**, *University of Strathclyde*
Graduated with **First Class Honours**.
BSc Project: Model checking performance of the modal μ -calculus.
Dean's Certificate $\times 3$.
Entered Year 2 directly.

Awards and Accolades

- 2023 **APLAS Best Paper Award 2023**, with Clemens Kupke and Fredrik Nordvall Forsberg, for “A fresh look at commutativity: free algebraic structures via fresh lists”

Publications

- 2023 C. Kupke, F. Nordvall Forsberg, & S. Watters, *A fresh look at commutativity: free algebraic structures via fresh lists*, APLAS 2023. [\[link\]](#)

Speaking

- Oct 2024 **MSP101**, *University of Strathclyde, UK*, The Madness of the Modal μ -Calculus
- Jun 2024 **TYPES 2024**, *IT University of Copenhagen, Denmark*, Extensional Finite Sets and Multisets in Type Theory
- Apr 2024 **BCTCS 2024**, *University of Bath, UK*, Extensional Finite Sets and Multisets in Type Theory
- Nov 2023 **APLAS 2023**, *Academia Sinica, Taiwan*, A Fresh Look at Commutativity: Free Algebraic Structures via Fresh Lists
- Oct 2023 **MSP101**, *University of Strathclyde, UK*, (Reflexive) Partial Monoids 101
- Jan 2023 **MSP101**, *University of Strathclyde, UK*, Sorted Lists and Free Idempotent Commutative Monoids (over strict total orders)
- Nov 2021 **MSP101**, *University of Strathclyde, UK*, A Tour of Temporal Logic. [\[slides\]](#)

Citizenship

- 2024–Date **Postgraduate Representative**, *British Colloquium for Theoretical Computer Science (BCTCS)*
- 2024 **Organising Committee**, *Scottish Programming Languages and Verification (SPLV) Summer School*, [\[link\]](#)

Teaching

2021–2024 **Tutor**, *CS106 Computer Systems and Organization*, University of Strathclyde
2024 **Tutor**, *CS208 Logic & Algorithms*, University of Strathclyde
2023–2024 **Tutor**, *CS103 Machines, Languages & Computation*, University of Strathclyde
2022–2024 **Tutor**, *CS260 Functional Thinking*, University of Strathclyde
2021–2024 **Lab Demonstrator**, *CS410 Advanced Functional Programming*, University of Strathclyde
2022 **Lab Demonstrator**, *CS209 User & Data Modelling*, University of Strathclyde