Ben Simner

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Research

- SOSP'25 Ghost in the Android Shell: Pragmatic Test-oracle Specification of a Production Hypervisor (to appear) Kayvan Memarian, Ben Simner, David Kaloper Meršinjak, Thibaut Pérami, Peter Sewell
- ISCA'25 **Precise exceptions in relaxed architectures Ben Simner**, Alasdair Armstrong, Thomas Bauereiss, Brian Campbell, Ohad Kammar, Jean-Pichon Pharabod, and Peter Sewell BEST PAPER AWARD
- ISMM'23 Wait-Free Weak Reference Counting Matthew J. Parkinson, Sylvan Clebsch, and Ben Simner
- FMSD'23 Isla: Integrating full-scale ISA semantics and axiomatic concurrency models (extended version) Alasdair Armstrong, Brian Campbell, Ben Simner, Christopher Pulte, and Peter Sewell
- ESOP'22 **Relaxed Virtual Memory in Armv8-A Ben Simner**, Alasdair Armstrong, Jean Pichon-Pharabod, Christopher Pulte, Richard Grisenthwaite, and Peter Sewell
- CAV'21 Isla: Integrating full-scale ISA semantics and axiomatic concurrency models Alasdair Armstrong, Brian Campbell, Ben Simner, Christopher Pulte, and Peter Sewell
- ESOP'20 **ARMv8-A system semantics: instruction fetch in relaxed architectures Ben Simner**, Shaked Flur, Christopher Pulte, Alasdair Armstrong, Jean Pichon-Pharabod, Luc Maranget, Peter Sewell
 - CAV'17 Starling: Lightweight Concurrency Verification With Views Matthew Windsor, Mike Dodds, Ben Simner, Matthew J Parkinson

Positions & Experience

- 2025- Research Associate, Computer Science, University of Cambridge.
- 2023-2025 Research Assistant, Computer Science, University of Cambridge.
- Autumn'18 Intern, University of Cambridge.
- Summer'17 Intern, Microsoft Research, Cambridge.
- Spring'17 Software Engineer, https://greensdictofslang.com/.
- Summer'16 Intern, University of York.

Qualifications

- 2018-2025 **Ph.D**., Computer Science, University of Cambridge Thesis: Arm system semantics (unconditionally accepted)
- 2014-2018 **MEng**., Computer Science, University of York First-class honours (with distinction) Dissertation: Automated comparison of implementations of purely functional data structures