

# Ribbon Proofs for Separation Logic

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This talk will present Ribbon Proofs: a diagrammatic system for proving program correctness, based on separation logic. Ribbon proofs emphasise the structure of a proof, so are intelligible and pedagogical. They are less redundant than traditional proof outlines, so are potentially more scalable. They can be visually manipulated to yield proofs of variant programs (e.g. those obtained by parallelisation or compiler reorderings). There are some interesting links to automatic verification tools, proof nets, and Milner's bigraphs. This is joint work with Mike Dodds (Univ. York) and Matthew Parkinson (Microsoft Research).