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<https://scholar.google.com.au/citations?user=gX35sl4AAAAJ&hl=en>

Summary

Intermittent streams comprise at least 50% of global river length, and their prevalence is projected to increase in regions experiencing drying trends related to climate change and increases in water abstraction for socio-economic use. Research on how intermittent streams function and quantifying hydro-ecological responses to these changes is an urgent research and management need. My PhD research aims to characterise and quantify the distribution of intermittent streams using spatially contiguous stream flow data, converted from spatially contiguous water balance data available online, quantify the main controls on flow intermittency at multiple spatial scales, and identify how these controls influence key ecological functions, such as flow connectivity and availability of aquatic refuges.

Research Expertise

- Spatial analysis with R and ArcGIS
- Environmental flow management
- Relationship between water quality and land use