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Summary

High-intensity bushfires have serious consequences for water security, as they alter soil structure, behavior, and erosion. Moreover, the intensity and frequency of post-fire precipitation can further exacerbate the situation, causing damage to riparian and inland water ecosystems by washing away burned ashes and chemical flame retardants into nearby rivers. However, the regional constraints of lake basins have prevented water quality surveys from being conducted in most fire-affected areas of Australia. My research aims to investigate the effects of bushfires on surrounding waters by coordinating multiple datasets. I am employing a diverse range of data sources to monitor changes in water area and quality, conducting analysis at a spatio-temporal scale that encompasses hydrological, physical and chemical properties.

Research Expertise

- Remote sensing
- Water quality
- GIS
- Soil
- Hydrology