

Dr Mark Lethbridge



Research Interests

Application of GIS and population modelling in:

- population viability analysis
- habitat modelling
- managing and modelling processes for better management of threatened & declining species, weeds
- biodiversity & conservation
- monitoring strategies in adaptive management
- optimal landscape reconstruction
- GPS/Automated radio tracking strategies & spatially statistical measures
- Historical geography
- Yellow-footed rock-wallaby management
- Spatial Analysis in Archaeology.
- Crime Analysis
- Spatial modelling

**Director of Studies Bachelor of Applied GIS
School of Geography, Population and
Environmental Management
Faculty of Social Sciences**

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Research Collaborations and Consultancies

Optimal landscape reconstruction tool using ecological targets and measures called: **Optimal Reconstruction of Altered Habitat (OPRAH)**.

A collaborative project between:

- Hugh Possingham, University of Queensland
- Scott Field, University of Queensland
- Michael Westphal, University of Arizona
- Drew Tyre, University of Nebraska-Lincoln
- Ian Ball, Australian Antarctic Division
- Department for Environment and Heritage

Bounceback

Flinders and Gawler Ranges, biodiversity, threatened species monitoring and management.

Dr Heather Bulth, Windamara Aboriginal Corporation.

GIS & hydrology models to understand the function of indigenous archaeology.

Biotelemetry Tracking P/L (1998 – present)

Radio collar GPS transmission & automated mammal tracking systems.

Aerometrex Pty Ltd (1997 to 2000)

Geodetic GPS control, aerial imagery.

Primary Industries S.A. (1999 - 2000)

Land use mapping of Mt Lofty Ranges, York Peninsula & the Northern Agricultural Districts.

Professional Affiliations

Ecological Society of Australia.

Statistical Society of Australia Inc.

Modelling and Simulation Society of Australia & NZ

Committees

Spatial Information Committee

Spatial Education Australia (SEDA).

- Conducting multidisciplinary collaborative research on Australia's biodiversity & landscapes
- Providing innovative interpretation of biodiversity research for a wide variety of end-users