

Curriculum Vitae **Dr. Adrian Southern**

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Nationality: English, born 24 April 1967



EDUCATION

2001 – 2008 University of East Anglia (UEA) School of Environmental Sciences

PhD. in Environmental Science. Thesis title: Implementing an integrated approach to natural resource governance: A case study in whole landscape design at the catchment scale.

BSc. (Hons.) Environmental Sciences: 1st Class

1988 - 1989 Somerset College of Agriculture

Advanced National Certificate in Amenity Horticulture (ANCH): Distinction

For a full list of professional and vocational land based qualifications go to this [link](#)

EMPLOYMENT & PROJECTS

2010 – 2011 Environmental Consultant and Independent Researcher: Designing a resilience based environmental curriculum for a rural Maya community in the Yucatan, Mexico.

This project was an opportunity to apply my experience in landscape and environmental management and contrast it with a radically different ecosystem and culture. The project required applying a holistic environmental perspective to the development of a resilience based curriculum. This included living in the community of Yaxunah and strong collaboration and partnership working with the youths and adults in the community, anthropologists, teachers, environmental scientists and ecologists spanning multiple cultures and world views. In collaboration with Dr Grace Bascope, Maya Research Program.

2009 – 2010 Senior Research Associate: Land use change and management responses to agricultural transition process and drivers in the East of England River Basin District.

This project included significant communication and collaborative working with a range of social and natural scientists, and GIS based modelling to develop and analyse three agricultural scenarios for 2030 at the regional basin scale (Trend 2030, Agrotechnology 2030 and organic 2030). Responsible to Prof. Kerry Turner and Prof. Andrew Lovett, the Earth and Life Systems Alliance (ELSA) agricultural working group.

2008 – 2009 Senior Research Associate: Designing a £3.5 million research proposal into the interactions between climate change and land use on the trade-offs between the provision of ecosystem services in arable catchments.

This included project and budget management, technical advice and a creative contribution to a £3.5 million NERC consortium grant. I played a key role alongside the project leader working

with thirty-one scientists from eleven institutions and other key stakeholders to build consensus. This required the design and delivery of two facilitated workshops, one with the core science team, the other with a range of stakeholders at DEFRA's London office. The proposal centred on a comparative study of four catchments, to do quantitative and qualitative experimental research and modelling. The design aimed to co-construct policy recommendations with multiple stakeholders, integrating social, economic and environmental issues into a single policy framework. Responsible to Dr. M. Hassall and Prof. Tim O'Riordan. UEA.

2007 – 2009 Assistant Researcher: Comparative study of two catchment case studies (Norfolk Broads and the Hungarian Tisza) for climate change policy appraisal in the EU.

I made an important contribution to the synthesis and integration report “Climate change appraisal in the EU: Current trends and future challenges”. This involved summarizing two catchment based climate change policy appraisal case studies (the Norfolk Broads and the Hungarian Tisza). The appraisal was based on a six point analytical framework; participation and deliberation, learning, knowledge integration, policy integration and trade-offs and synergies. This included organizing and leading a weekend visit by Hungarian stakeholders to the broadland catchments to contrast the management of them with those of the Tisza. The project also included the initial start-up of a partnership network of sustainability scientists spanning a range of disciplines and countries in Eastern Europe. Employer: The Tyndall Centre for Climate Change Research within the Adaptation and Mitigation Strategies (ADAM) Supporting European Climate Policy Project, responsible to Dr. Alex Hexaltine.

2004 – 2009 PhD. Researcher: Implementing an integrated approach to natural resource governance: A case study in whole landscape design at the catchment scale.

In collaboration with the Norfolk Coast AONB partnership, a multi-stakeholder partnership building research approach was used to develop two plausible landscape scenarios for the Glaven catchment in 2020. One scenario was driven by agricultural production and world trade, the other was driven by enhanced protection of ecosystem services and multi-objective land use. These were compared to a 2005 baseline using five indicators: agricultural economics, land use, ecological connectivity, nitrogen levels in the river water, and soil erosion. These scenarios were then presented at a one-day workshop to twenty-six stakeholders representing a range of government, NGO, landowner and other business and private interests. The objective was to answer the question; what mix of policies, institutions and delivery mechanisms would best deliver a multi-objective whole landscape? Supervised by Prof. Andrew Lovett, Prof. Tim O'Riordan and Prof. Andrew Watkinson.

2007 – 2008 Environmental Consultant: Designing a web based “sense of place” tool kit for the implementation of sustainability practice in the landscapes of the Norfolk Coast AONB Partnership.

This project required working closely with the Norfolk Coast AONB partnership and project steering committee to produce a tool kit to enhance community awareness, understanding and engagement in environmental and landscape issues, and to better understand change. Employer: The Tyndall Centre for Climate Change Research, led by Anthony Footitt.

2006 – 2007 Teaching Assistant: BSc. environmental field course in Slapton Devon.

Teaching was specifically focused on catchment management issues in the Slapton catchments, GPS practicals and soils. Led by Prof. Andrew Lovett, UEA.

2004 – 2008 Teaching Assistant: BSc. and MSc. GIS courses in applied GIS analysis in environmental science. Led by Prof. Andrew Lovett, UEA.

1996 - 2001 Biome Manager and Research Specialist at Biosphere 2 Arizona USA.

Controlled environmental systems management and research focused on ecosystem responses to climate change using a 9 -11 year-old, 1900m² (3500m³) neotropical rainforest mesocosm (primarily CO₂ fertilization and drought response experiments). This required strong project management skills and liaison with engineers, scientists and managers during a period of considerable change. From 1996 – 1999 I was also involved in the ecological management of the savannah, thornscrub, desert and mangrove biomes of Biosphere 2. Employer: Columbia University, Biosphere 2 Centre, Arizona. USA.

1989 – 1994 Horticultural and Arboriculture Officer at Whipsnade Wild Animal Park.

Ecological and horticultural management of a 250 hectare parkland landscape, and ecosystem “exhibit” construction, restoration and management. This included SSSI chalk grassland, woodland, wetland and parkland habitats, budget management up to £25k and staff and volunteer management. Employer: The Zoological Society of London, Whipsnade Wild Animal Park, Dunstable, Bedfordshire. LU6 2LS. England.

1984 – 1988 Apprentice and Craftsman Gardener

Employer: North Tyneside Council. England.

SKILLS AND PROFESSIONAL AFFILIATIONS

Skills: Extensive working knowledge of Microsoft Office packages, particularly Word, Excel and PowerPoint, ESRI GIS software and I am increasingly utilizing free open source GIS software such as QGIS, SAGA and Google mapping tools. I also have experience of using software tools for collaborative professional practice and research, and have some experience with statistical analysis software. I have also done training in stakeholder facilitation techniques for environmental management. My writing, communication and organizational skills are excellent in English and I am currently learning Spanish and Maya. I have a clean driving licence.

Professional Affiliations: [University of East Anglia School of Environmental Sciences](#) (Research Fellow), [Tyndall Centre for Climate Change Research](#) (Research Fellow), [Botanical Research Institute of Texas](#) (Research Associate).

PUBLICATIONS

Southern, A., B. Contreras, G. Bascopé, B. Kraft, E. Alcocer, N. Brooks, T. Burgess, A. Robinson-Pant (in prep.) **What do the next generation need to learn? Designing a resilience based curricula in the face of global change.**

Contreras, B., G. Bascopé, A. Southern, B. Kraft, E. Alcocer (in prep.) **Fortaleciendo centros comunitarios: Educacion no formal a traves del arte y la ciencia en Yaxunah, Yucatan.**

Southern, A., I. Bateman, S. Dorling, C. Fezzi, M. Hassall, D. Laurie, A. Lovett, T. Luisetti, G. Malin, L. Phillips, P. Posen, and K. Turner. (in prep). **Land use change and management responses to agricultural transition process and drivers in the East of England River Basin District.** CSERGE Working Paper.

- Werners, S., Southern, A (submitted). **Making space for flooding and people in the Hungarian Tisza catchment.** In Making Space for the River. Edited by J. Warner, A. van Buuren and J. Edelenbos, IWA Publishing, London, UK.
- Southern, A., A. Lovett, A. Watkinson, and T. O'Riordan. (2011). **Sustainable landscape governance: Lessons from a catchment based study in whole landscape design.** Landscape and Urban Planning 101: 179-189.
- Southern, A., A. Lovett, A. Watkinson, and T. O'Riordan. (2010). **Designing multi-objective whole landscape scenarios at the catchment scale.** CSERGE Working Paper EDM 10-14.
- Russel, D., A. Haxeltine, D. Huitema, M. Nilsson, A. Southern, D. Tàbara, W. Tuinstra, J. Hinkel, T. Rayner, A. Serra, M. Falaleeva, C. Albert, Z. Flachner, and S. Werners. (2009). **Climate change appraisal in the EU: Current trends and future challenges.** ADAM WP P1 synthesis and integration report. Tyndall Center for Climate Change Research.
- Southern, A. (2009). **Implementing an integrated approach to natural resource governance: A case study in whole landscape design at the catchment scale.** PhD. Thesis. University of East Anglia, Norwich
- Southern, A., A. Lovett, A. Watkinson, and T. O'Riordan. (2006). **Implementing a whole-landscape approach to catchment management.** Proceedings of the 2006 IALE (UK) Conference, Water and the Landscape: The Landscape Ecology of Freshwater Ecosystems, 267-273.
- Cockell, C. S., J. Berry, A. Southern, A. Herrera, and C. Yackulic. (2004). **Protection from UV radiation in the economic crop, *Opuntia spp.*** Economic Botany 58:S88-S100.
- Lin, G. H., J. Berry, J. Kaduk, A. Southern, J. Van Haren, B. Farnsworth, J. Adams, K. Griffin, and W. Broecker. (2001). **Sensitivity of photosynthesis and the carbon sink in tropical rainforests to projected atmospheric CO² and climate change.** Proceedings of the Photosynthesis Congress 2001.
- Cockell, C. S., A. Southern, and A. Herrera. (2000). **Lack of UV radiation in Biosphere 2 - practical and theoretical effects on plants.** Ecological Engineering 16:293-299.
- Wetterer, J. K., S. E. Miller, D. E. Wheeler, C. A. Olson, D. A. Polhemus, M. Pitts, I. W. Ashton, A. G. Himler, M. M. Yospin, K. R. Helms, E. L. Harken, J. Gallaher, C. E. Dunning, M. Nelson, J. Litsinger, A. Southern, and T. L. Burgess. (1999). **Ecological dominance by *Paratrechina longicornis* (Hymenoptera: Formicidae), an invasive tramp ant, in Biosphere 2.** Florida Entomologist 82:381-388.

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