



VALUING NATURE

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PhD: Public choice for flood defence

Post-Doc: Economic-ecological modelling of biodiversity
offsetting

What is your research area?

- Exploring the effects of creating new coastal wetlands on agricultural land as a means:
 - i. Offsetting the negative effects of industrial, transport and residential developments on biodiversity
 - ii. Offsetting risks of flooding in coastal areas
- Research plan:
 1. Develop a theoretical model of habitat banking using current economic and ecological literature on the subject
 2. Create a model of optimal land use for two industrialised estuaries (Forth Estuary, Scotland & Tees Estuary, England)
 3. Simulate multi-player wetlands trading for the two estuaries to test the functionality of the credit market



Why did you want to attend the Business Impact School?

- I have a strong interest in how we can value the environment and manage it more sustainably, from the ecological and economic perspectives
- Recently embarked on my Post-Doctoral Career researching biodiversity offsetting
- Keen to broaden my research horizons and engage with the wider research and business community to develop my research agenda for the coming years
- Majority of my work to date has centred on the coastal zone, and I am looking to broaden my applications to the terrestrial environment

Challenges and opportunities

