



# VALUING NATURE

## Public-Private Partnerships for the Management of Pests and Invasive Species

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# What is your research area?

- **In general:** design of robust strategies of resource management in the face of uncertainty
- **Current project:** develop a theoretical framework to study how to establish public-private coalitions that share the costs and responsibilities of invasive species management between the private and public sector
  - Encourage the use preventive emergency plants and higher investments in biosecurity efforts
  - Opportunities for risk sharing and development of insurance systems
- **Past projects:**
  - Use mathematical models in fishery economics to determine sustainable harvest control rules



# Opportunities and/or challenges for getting research used by businesses?

- Opportunities:
  - Better link between natural, economic & social in an increasing uncertain world
    - The potential of integrated mathematical/economic/ecological models
- Challenges for uptake by business and decision makers:
  - Lost in translation: map policy need with model solutions
  - Build confidence in models & access to model products
  - No single 'magic' model
- Requirements:
  - Robustness, repeatability & transparency