
Dr. Antara Sen

Consultant, PJM Economics

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OVERVIEW

Antara Sen is an experienced economist specialising in environmental valuation and cost-benefit analysis. She has over seven years' experience in valuation of non-market benefits and costs. Prior to joining PJM Economics, Antara worked as a Senior Research Associate at the Centre for Social and Economic Research on the Global Environment (CSERGE), University of East Anglia, Norwich.

EDUCATION

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| 2006 – 2011 | PhD in Environmental Economics University of California, Irvine, US |
| 2006 – 2008 | MA in Economics University of California, Irvine, US |
| 2003 – 2004 | MSc in Environmental Economics University College London, UK |
| 1999 – 2001 | MA in Economics Jadavpur University, India |
| 1996 – 1999 | BSc in Economics University of Calcutta, India |

PROFESSIONAL EXPERIENCE

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| 04/2016 – present | Consultant, PJM Economics, (Dorset, UK) |
| 01/2010 – 02/2016 | Senior Research Associate, CSERGE, UEA (Norwich, UK) |
| 08/2012 – 09/2015 | Associate Tutor, Department of Economics, UEA (Norwich, UK) |
| 09/2006 – 06/2009 | Teaching Assistant, Department of Economics, UCI (Irvine, US) |
| 09/2002 – 02/2003 | Lecturer, Department of Economics, JCC College (Calcutta, India) |
| 12/2001 – 03/2002 | Research Associate, Institute of Social Sciences & FAO, (India) |

MEMBERSHIPS

European Association of Environmental and Resource Economists, The American Economic Association, UK Network of Environmental Economists.

SELECTED JOURNAL PUBLICATIONS

Sen, A., Harwood, A. R., Bateman, I. J., Munday, P., Crowe, A., Brander, L., Raychaudhuri, J., Lovett, A. A., Foden, J., and Provins, A. (2014) Economic Assessment of the Recreational Value of Ecosystems: Methodological Development and National and Local Application, *Environmental and Resource Economics*, Volume 57, Issue 2, pp. 233-249.

Fezzi, C., Bateman, I.J., Askew, T., Munday, P., Pascual, U., **Sen, A.** and Harwood, A. (2014) Valuing provisioning ecosystem services in agriculture: The impact of climate change on food production in the United Kingdom, *Environmental and Resource Economics*, Volume 57, Issue 2, pp. 197-214

Bateman, I.J., Harwood, A., Abson, D., Andrews, B., Crowe, A., Dugdale, S., Fezzi, C., Foden, J., Haines-Young, R., Hulme, M., Kontoleon, A., Munday, P., Pascual, U., Paterson, J., Perino, G., **Sen, A.**, Siriwardena, G. and Termansen, M. (2014) Economic Analysis for the UK National Ecosystem Assessment: Synthesis and Scenario Valuation of Changes in Ecosystem Services, *Environmental and Resource Economics*, Volume 57, Issue 2, pp. 273-297

Bateman, I.J., Harwood, A., Mace, G., Watson, R., Abson, D., Andrews, B., Binner, A., Crowe, A., Day, B., Dugdale, S., Fezzi, C., Foden, J., Haines-Young, R., Hulme, M., Kontoleon, A., Lovett, A., Munday, P., Pascual, U., Patterson, J., Perino, G., **Sen, A.**, Siriwardena, G. and Termansen, M. (2013) Bringing ecosystem services into economic decision making: Land use in the UK, *Science*, Vol. 341 no. 6141 pp. 45-50.

Bateman, I., Harwood, A., Mace, G. M., Watson, S. R., Abson, D., Andrews, B., Binner, A., Crowe, A., Day, B., Dugdale, S., Fezzi, C., Foden, J., Hadley, D., Haines-Young, R., Hulme, M., Kontoleon, A., Lovett, A., Munday, P., Pascual, U., Paterson, J., Perino, G., **Sen, A.**, Siriwardena, G., van Soest, D., Termansen, M. (2013) Ecosystem services: Response, *Science*, Vol. 342. pp. 421-422.

Luisetti, T., Turner, K., Andrews, J., Palmieri, M., **Sen, A.**, Paltriguera, L. (2015) Why value Blue Carbon, Coastal zones ecosystem services: From Science to Values and Decision Making, Springer – Ecological Economics Series, Vol 9. pp.191-206.

Palmieri, M., Schaafsma, M., Luisetti, T., Barausse, A., Harwood, A., **Sen, A.**, Turner, K. (2015) Jellyfish Blooms and Their Impacts on Welfare Benefits: Recreation in the UK and Fisheries in Italy, Coastal zones ecosystem services: From Science to Values and Decision Making, Springer – Ecological Economics Series, Vol 9. pp.219-240.

UNEP-WCMC, LWEC, UK (2014) Economic value of ecosystem services in UK National Ecosystem Assessment Follow-on, Work Package Report 3

Helm, D. and Hepburn, C. (Eds.) (2011) The UK National Ecosystem Analysis: Valuing Changes in Ecosystem Services, in Helm, D. and Hepburn, C. (Eds.), Oxford University Press, Oxford.

UNEP-WCMC, UK (2011) United Kingdom National Ecosystem Assessment, Chapter 22: Economic Values from Ecosystems and Chapter 26: Valuing Changes in Ecosystem Services: Scenario Analysis.

RELEVANT PROJECTS

Environment Agency, UK

Valuation of Freshwater Angling in England

Currently working on designing valuation models to estimate the use value to anglers of changes in key characteristics of angling and to create an appraisal tool which can be used by managers at local, catchment and project-specific scale to estimate the economic benefits to anglers from changes in site characteristics

Scottish Water, UK

Meta-analysis of PR14 Willingness to Pay Results

Worked on an econometric modelling study to explore the sources of variation in the willingness to pay results reported by water companies for identical, or similar, service measures at the 2014 water price review.

Bupa, UK

Price Elasticity Research

Currently working on the stated preference design, analysis and reporting components of a study exploring the demand for private health insurance in the UK.

Transport for London, UK

Currently working on the stated preference design, analysis and reporting components of a study exploring the relative importance of a large number of journey-related attributes, and people's willingness to pay for improvements. Attributes included relate to bus, tube, car, cycle and walking modes.

NERC and Department of Food and Rural Affairs (Defra), UK

Blue Carbon valuation and accounting

Worked on a review of the various opportunities and limitations involved in extending the existing REDD+ framework to the blue carbon ecosystems.

Economics for the Environment Consultancy (eftec), UK

Worked on a scoping study on Valuing Ecosystem Services of Forests across Great Britain commissioned by the Forestry Commission, UK

NERC, Defra, and Economic and Social Research Council (ESRC)

UK National Ecosystem Assessment

Work on several aspects of the project with the main focus being on understanding the impact of land use change on recreational opportunities in the UK. Led a study on the development of a flexible, interdisciplinary and transferable methodological framework that combines household survey and GIS data to estimate recreational demand and values for any spatial unit and habitat mix in Great Britain.

Institute of Social Sciences, India

Worked on the analysis and reporting of a study exploring the impact of corruption on economic growth.

Food and Agricultural Organisation, UN, India

Worked on the analysis and reporting components of a study exploring the world market prospects of jute.