Pr. Ben Groom, LEEP Institute, Department of Economics, University of Exeter BusinessSchool.b.d.groom@exeter.ac.uk,

PROFESSOR BEN GROOM

HIGHER EDUCATION

09/2000 - 06/2005 **Department of Economics, University College London**
PhD Economics: Essays in Applied Resource Economics

09/1995 - 09/1996 **Department of Economics, University College London**
MSc Environmental and Resource Economics: Distinction

09/1992 - 07/1995 **Department of Economics, Sheffield University**
BA hons Economics: II:I

ACADEMIC EXPERIENCE

07/2020 - to date **LEEP Institute, Department of Economics, University of Exeter Business School**
Dragon Capital Chair of Biodiversity Economics

07/2020 - to date **Grantham Research Institute on Climate Change and the Environment, LSE**
Visiting Professor

09/2012 - 06/2020 **Department of Geography and Environment, London School of Economics**
Professor in Environment and Development Economics

06/2015 - 07/2015 **VATT, University of Helsinki, Finland**
Visiting Researcher

03/2005 - 09/2012 **Department of Economics, School of Oriental and African Studies, University of London**
Lecturer in Economics (09/2005-03/2009), Senior Lecturer in Economics (03/2009-09/2012)

01/2009 - 08/2009 **Universidad Autonoma de Barcelona, Departament de Economia Aplicada**
Visiting Scholar

09/2001 - 07/2004 **Department of Economics, University College London**
Teaching Assistant

PROFESSIONAL EXPERIENCE (SELECTED)

12/2025 – 06/2026 **HM Treasury Discount Rate Review**
Appointment by HM Treasury by Treasury Chief Secretary James Murray (MP)

10/2021 – 06/2025 **HM Treasury Biodiversity Working Group**
Co-Chair

01/2021 – 02/2021 **Department of Transport, United Kingdom Government**
Consultant: Social Discounting, growth and relative prices for the value of time saved. DFT 2021

11/2019 – 09/2020 **United Nations International Seabed Authority (ISA)**
Consultant: Discounting for global heritage resource wealth. ISA 2020

01/2017 – 01/2018 **Organisation for Economic Cooperation and Development (OECD)**
Consultant: OECD Cost-Benefit Analysis book. OECD 2018

09/2016 – 03/2017 **Office for National Statistics**
Consultant: Social Discounting for Natural Capital Accounting project: ONS1 and ONS2.

03/2014 – 12/2015 **Organisation for Economic Cooperation and Development (OECD)**
Consultant: Economic instruments for water management in the Lake Baikal Basin. Reports 1-3

10/2014 – 05/2015 **World Water Council (WCC)**
Consultant: Water and Green Growth report: presented at the World Water Forum 2015

09/2013 – 08/2014 **WWF START programme**
Consultant: Study of resilience to natural disasters in Sindh province

PROFESSIONAL EXPERIENCE CONT'D

04/2012 – 05/2012
The Environment Agency
Consultant: Review of groundwater management modelling exercise

04/2008 – 09/2008
Asian Development Bank (ADB) and Chinese Ministry of Environmental Protection (MEP)
Consultant: *Advisor on 50 year macro environmental plan: water resource management.*

09/2007 - 10/2008
WWF Pakistan
Consultant: Total Economic Value of wetlands on Indus River (Indus for All Programme)

11/2003 – 04/2006
China Council for International Cooperation on Environment and Development (CCICED)
Researcher: Environment and poverty group: distributional effects of environmental pricing

06/2000 - 11/2003
Centre for Socio-Economic Research on the Global Environment (CSERGE), London www.cserge.ucl.ac.uk
Research Fellow on EU 5th Framework funded projects:
- Biodiversity and Economics for Conservation (BIOECON)
- EMERGE: www.mountain-lakes.org
- Cyprus Integrated Water Management Project

08/2002 - 09/2002
OXERA Consultants, Oxford. www.oxera.co.uk
Consultant to the Office of the Deputy Prime Minister
- Report on the economic arguments for time varying discount rates for Cost-Benefit Analysis. Contributed to the Treasury Green Book for CBA: greenbook.treasury.gov.uk

06-07/2004 - & 06-07/2002
International Institute for Environment and Development (IIED), London. www.iied.org.uk
Consultant
- Background research on International Tradable Quotas for sturgeon and caviar
- Researching potential for funding of forest plantation projects in Cameroon

05/2000 - 07/2000
Mokoro Consultants, Oxford. www.mokoro.org
Consultant for World Bank to the United Nations Mission in Kosovo (UNMIK)
- Public Expenditure Management Advice to the Central Fiscal Authority, Pristina
- Strategic Planning Advice to the Public Utilities Authority, Pristina

01/1998 - 01/2000
Overseas Development Institute (ODI), London. www.odi.org
ODI Fellow: Department of Water Affairs, Ministry of Agriculture, Water and Rural Development, Windhoek, Namibia

10/1997 - 11/1997
Overseas Development Institute (ODI), London.
Research Assistant: Sustainable management of micro-watersheds in India

12/1996 - 01/1997
Natal Parks Board (NPB), Petermaritzberg, Natal, South Africa
Research Assistant: Contingent valuation study of the dis-amenity of congestion in the Sodwana Bay National Marine Reserve

PROFESSIONAL MEMBERSHIPS AND ASSOCIATIONS

- Organising committee: World Congress on Environmental and Resource Economics, Gothenburg 2018, EAERE Annual Conference in Bergen, Norway, June 16th-19th 2025.
- Editorial Council, Journal of Environmental Economics and Management, since 2023.
- Editorial Board, Ecological Economics, since 2023.
- Committee member for the EAERE Eric Kempe Prize, 2023.
- Member of the Lancet Commission on Green Growth in the Post-Covid era.
- HM Treasury Biodiversity Working Group member.
- Member of the EAERE Policy Outreach Committee. (POC)

PROFESSIONAL MEMBERSHIPS AND ASSOCIATIONS CONT'D

- BIOECON Network. Joint Chair of the Scientific Committee and co-organiser of BIOECON 16, BIOECON 17, BIOECON 18, BIOECON 20, BIOECON 23, BIOECON 25, BIOECON 26 and BIOECON 27.
- Member of the scientific committee at ICRE8, UkNEE and SBCA (Europe).

PROFESSIONAL INVITATIONS, EVENTS AND AWARDS

- **Keynote**: European Association of Environmental and Resource Economists (EAERE) July 2027, Madrid.
- Eminent Academic: Australian Economic Association and Ministry of Environment, Nov. 2026.
- Carbon Removals Workshop: Harvard University Center for the Environment, May 5th-6th, 2026
- **Keynote**: EIEE Annual meeting. "Dynamic Forest Additionality". Venice, Jan, 2026.
- **Keynote**: Kings College London Solidarity Symposium, Jan 2026.
- Invited discussant: ASSA session on Biodiversity and Finance, Philadelphia, Jan, 2026.
- **Keynote**. MISTRA BIOPATH workshop. Measurement and valuation of biodiversity. May 2025.
- Frontiers Environment Prize 2025: Awarded for Drupp, Hansel, Groom et al., (2024). April 2025.
- Invited Panellist: France Strategié workshop on distributional effects in Cost-Benefit Analysis. Feb 2025.
- **Keynote**: Latin American Association of Environmental and Resource Economists (LAERE). March 19th-21st, 2025
- Speaker: Deloitte DCS competency lab seminar: Measuring and Valuing Biodiversity. February 2025.
- EAERE Winter School on Biodiversity Economics. Co-organiser. Annecy, Jan 20th-24th, 2025.
- **Keynote**: A biodiverse economy: how can Vietnam take the lead? ISPONRE workshop, Hanoi, Nov 2024.
- Invited panellist: EAERE conference, panel session on biodiversity and natural capital, Leuven July, 2024
- Invited speaker: CGFI Annual Forum, Royal Society of Engineers. NERC Nature Positive Session June, 2024
- AMSE Summer School: Invited lecture: Discounting, Inequality and Environment, June 12th 2024, Marseille.
- Invited paper: NBER Environment and Energy Policy and Economy Conference, May 23rd, 2024.
- SBCA training workshop on Social Discounting. Invited speaker. April 25th, 2024.
- Invited Speaker: Resources for the Future (RFF) Washington DC. Intersecting Externalities: Climate Change, Natural Capital, and Human Well-Being, March 22nd, 2024.
- Invited Speaker: Investing for Biodiversity Workshop, Toulouse School of Economics, Sept 2023.
- **Keynote**: Society for Benefit Cost Analysis (SBCA 2023) Annual Conference, Milan, Sept 2023.
- Plenary Speaker: Global Conference on Environmental Taxation (GCET, Paris), Sept 2023.
- Invited Speaker: Sylvera discussion on the Voluntary Carbon Market. August 2023.
- Invited Speaker: Sylvera-LSE Roundtable discussion on the Voluntary Carbon Market. July 2023.
- Invited speaker. OECD INSPIRE workshop Assessing Biodiversity Related Risks, Paris, April 2023.
- **Keynote**. International Swaps and Derivatives Agency (ISDA). Carbon Markets and Offsets: measurement and performance, New York, March 2023.
- **Keynote**. International Swaps and Derivatives Agency (ISDA). Carbon pricing and offset markets, London, November 2022
- Invited speaker: Workshop on the economics of biodiversity post-Dasgupta review. LSE, November 2022.
- Invited Thematic Session on Climate Economics. Society for Benefit Cost Analysis Paris, November 2022.
- **Keynote**: Banque de France: NGFS-INSPIRE-BdF 'Greening the Financial System', Paris, October 2022.
- **Keynote**: Birds, Bears, Bulls: Jefferies. Biodiversity and Finance, Royal Chemistry Society, October 2022.
- NGFS-INSPIRE workshop speaker: Central Banks and Biodiversity, Zurich 2022.
- College de France, Chair of Sustainable Development: "Efficient Climate Policy" Symposium June 2022.
- **Keynote**: University of Leipzig "Breathing Nature Workshop". May 2022.

PROFESSIONAL INVITATIONS, EVENTS AND AWARDS CONT'D

- HM Treasury Environmental Discounting Workshops I and II. September 2021.
- **Keynote**: University of Gothenburg, BECS event, May 2021.
- **Keynote**: The Economics of Inequality and the Environment Conference. EIE. Sept 2020.
- FSR Climate and EAERE side-event at the 2020 State of the Union Meeting. "Europe as a (key?) player in the global climate policy". Florence, May 2020.
- Cross Regulation Group lunch. "Evaluation of infrastructure spending - the Green book, the Budget and the Comprehensive Spending Review". British Academy, March 2020.
- Department of Forestry and Environment, Yale University. Invited seminar speaker. December 2019.
- Interdisciplinary Research Network for Economists and Philosophers. Invited speaker, September 2019.
- Centre for Environmental Economics – Montpellier. Invited speaker. September 2019.
- EU State of the Union meeting: 'Trust in the Single [carbon] Market?'. Invited panelist. Florence, May 2019.
- HM Treasury – LEEP Workshop: Applying Natural Capital, Royal Society, April 2019. Invited Speaker.
- Teaching Excellence Award. LSE, November 2018.
- Cost Benefit Analysis and the Environment. Public Lecture LSE, November 2018.
- France Strategié, Government of France: Seminar on Cost Benefit Analysis, October 2018.
- WCERE policy panel: "The demand and supply of environmental policy advice". Gothenburg, June 2018.
- Bill and Melinda Gates Foundation and Harvard University: Invited Speaker at workshop on discounting and health valuation, Harvard Club of Boston, September 2017.
- National Infrastructure Commission: Member of Panel on Cost Benefit Analysis. April 2017 (first meeting).
- France Strategié, Government of France: Discounting Policy Workshop. Invited speaker. March 2017.
- Society for Benefit Cost Analysis. Policy Panel member, Washington DC. March 2017.
- UCSIA Annual Teaching Chair, with University of Antwerp. November 2016.
- 'Combating Climate Change: Lessons from Macro-Economics'. Tinbergen Institute, Amsterdam, April 2016.
- HM Treasury workshop entitled "Social Discounting in the UK" Part II. April 2016.
- EnvEcon Conference of the UK Network of Environmental Economists (UKNEE). Invited Plenary Session on Cost-Benefit Analysis lead by HM Treasury. March 18th 2016. EnvEcon 2016 Programme.
- Theory and Environment Workshop. University of Oslo. March 2016. Invited member.
- United Nations Environment Programme (UNEP). Invited speaker at Workshop on 'Mainstreaming ecosystem services into country's sectoral and macroeconomic policies and programmes'. Geneva, Feb 2016.
- Princeton University, 'The Future of Children: Children and Climate Change'. Author meeting, March 2015.
- Ministry of Finance, Financial and Economic Policy Directorate, Government of the Netherlands, Working Group on Cost Benefit Analysis. Invited expert on social discounting. The Hague, January 2015. Report.
- 'Beyond IPCC - Future Paths for Climate Research'. Invited talk, University of Gothenburg, October 2014.
- **Keynote**: Tiger-Forum / International Transport Economics Association (ITEA) conference: Keynote/expert panel on cost benefit analysis of long-term transport infrastructure. Toulouse, June 2014. Link
- 'Mitigate we Might, Adapt we Must!– Climate Change, Water and Food Security in Pakistan'. Expert panel at the Lahore University of Management Science (LUMS), April 2014. Link
- OECD International Transport Forum: Member of Working Group on the Assessment of Policies for Long-Term Transition to Sustainable Transport, Paris, December 2013. Link. Report December 2015.
- Department for Environment Food and Rural Affairs (DEFRA), Economic Advisory Panel. December, 2013
- HM Treasury Seminar entitled "Social Discounting in the UK". Whitehall, June 17th, 2013.

PROFESSIONAL INVITATIONS, EVENTS AND AWARDS CONT'D

- Norwegian Ministry of Finance, May 2012. Panel member for workshop on Intergenerational Discounting. http://nyttekost-web.sharepoint.com/Pages/HomeDay2.aspx
- **Keynote**: Chinese Economics Association Annual Conference 2012: CEAUK
- USEPA and Resources for the Future (RFF), Washington, September 2011. Invited panel member for workshop on intergenerational discounting. RFF Seminar.

PUBLICATIONS

R&RS, SUBMISSIONS, CURRENT WORKING PAPERS AND DRAFTS

- Sandi N, Balmford B and **Groom B** (2026). 'The Resilience of Payments for Environmental Services under Climate Shocks: Evidence from Vietnam'. *mimeo.*
- Disque S, Drupp M and **Groom B** (2026). 'Experimental Evidence for Dual Discounting'. *mimeo.*
- Inkinen V, Balmford B,…and **Groom B** (2026). 'Dynamic Additionality in Tropical Forests'. *mimeo.*
- Bearpark T, **Groom B**, Lee B and Venmans F (2026). 'The Global Portfolio of Carbon Removals'. *mimeo.*
- Andre L, **Groom B** and Venmans F (2026). 'Empirical Extinction Risk'. WCERE conference paper.
- Turk Z, Freeman M C and **Groom B** (2026). 'Regional Discounting'. (R&R).
- **Groom B**, Bateman I B, Milner-Gulland, et al., (2026). Bringing the economics of biodiversity into policy and decision-making: A target and cost-based approach to pricing biodiversity. (R&R)
- Nesje F, Drupp M A, Freeman M C, and **Groom B** (2026). Sense and Sensitivity: An argument against reporting multiple Net Present Values. SSRN. (Submitted)
- Silvestro D, Goria S, **Groom B**, Sterner T, Antonelli A (2025). 'Using artificial intelligence to optimize ecological restoration for climate and biodiversity'. (Submitted).
- Venmans F and **Groom B** (2025). 'Temporary Emissions Reductions, Tipping Points and Learning'. *Mimeo*
- Cavatorta E and **Groom B** (2025). Definitely Maybe: Inter-temporal discounting when future payments are in doubt. (Submitted).
- Meier S, Balmford B, Faccioli M, **Groom B** (2025). Biodiversity metrics and public preferences. (R&R).
- Cavatorta E and **Groom B** (2021). The lasting impression of violence: A cohort study of Palestinian attitudes. *mimeo*
- Turk Z, Fenichel E and **Groom B** (2020). Mean Spirited Growth. Grantham Centre for Climate Change and Economics and Policy Working paper. No. 351. (mimeo)

PUBLISHED ARTICLES

- Lee B, Gogerty N …. and **Groom B** (2026). 'The Carbon at Risk measure to manage carbon removal risk and guide effective portfolio construction'. Forthcoming *Nature Climate Change.*
- Emmerling J, **Groom B** and van der Ploeg F (2026). 'The Inequality Adjusted Social Cost of Carbon'. Forthcoming *Journal of the Association of Environmental and Resource Economists.*
- Linsenmeier M, **Groom B** and Roth S (2026). 'Economic specialization and heterogeneoustemperature-economy relationships suggest net costs of climate change in Europe'. *Nature Communications.*
- Freeman M C, **Groom B**, Nesje F and Wagner G (2026). 'Updating climate beliefs based on latest IPCC report points to increased willingness to act'. *Energy Economics*.
- Venmans F, Rickels W, **Groom B** (2025). 'Reducing the large short-lived impact of methane emissions with temporary carbon dioxide removals' Policy Brief. *Nature Climate Change.*
- Guo C, Agarwala M, Freeman M C, **Groom B** and McKenzie E (2025). Introduction to special issue on biodiversity and finance. *Ecological Economics.*
- Thales A. P. West, Alford-Jones K, Delacote P, ….., **Groom B** et al. (2025). 'Demystifying the Romanticized Narratives About Carbon Credits from Voluntary Forest Conservation'. *Global Change Biology*.

PUBLICATIONS CONT'D

PUBLISHED ARTICLES

- Silvestro D, Goria S, **Groom B**, Sterner T, Antonelli A (2025). 'The 30 by 30 biodiversity commitment and financial disclosure: Metrics matter.' *COSUST*.
- Drupp M A, Turk Z, **Groom B**, and Heckenhahn J (2025). 'Global evidence on the income elasticity of willingness to pay, relative price changes and public natural capital values'. *Environmental and Resource Economics*, 88: 3765–3804.
- Venmans F, Rickels W, **Groom B** (2025). 'Temporary carbon dioxide removals to offset methane emissions'. *Nature Climate Change.*
- Butler, A., **Groom, B**. and Milner-Gulland, E.J. (2025) 'Local people's preferences for housing development-associated Biodiversity Net Gain in England', *Land Use Policy*, 158, p.107758
- Delacote P, l'Horty T, …, **Groom B** et al. (2025) 'Restoring credibility in carbon offsets through systematic ex-post evaluation'. *Nature Sustainability*.
- Xin W, Grant L, **Groom B** and Zhang C (2025). 'Noisy biodiversity: Assessing the impact of ESG biodiversity ratings on asset prices.' *Ecological Economics*, 236, 108662.
- Cavatorta E and **Groom B** (2025). 'Revealing the Zone Of Possible Agreement between parties in conflict: an application to peace agreements between Israelis and Palestinians.' *PNAS Nexus*, 4(1), pp. 581-590.
- **Groom B** and Venmans F (2025). 'The social value of temporary carbon removals and delayed emissions'. *Environmental and Energy Policy and the Economy*, 6 (1), and NBER Working paper.
- Palmer C, **Groom B**, Sileci L and Langton S (2025). 'Biodiversity-food trade-offs when agricultural land is spared from production'. *American Journal of Agricultural Economics*.
- Delacote P, …, **Groom B**, et al., (2024). 'Strong transparency required for carbon credit mechanisms.' *Nature Sustainability*. 7, pp. 706–713.
- Drupp M A, Hansel M, **Groom B**, et al. (2024). 'Accounting for the increasing benefits from scarce ecosystems.' *Science*, 383, 6687, pp. 1062-1064.
- Cavatorta E and **Groom B** (2024). 'An Analysis of Changing Israeli and Palestinian Attitudes Towards Peace'. LSE Middle East Centre Working Paper.
- Balmford A, Srinivasan K, Venmans F, Coomes D, **Groom B,** Madhavapeddy, A and Swinfield T (2023)**. '**Realising the social value of impermanent carbon credits'. *Nature Climate Change*. **13**, pp 1172–1178.
- **Groom B** and Venmans F (2023). 'The Social Value of Offsets'. *Nature,* 619, pp 768-773.
- Knoke T, Hanley, N, Roman-Cuesta R M, **Groom B** and Venmans F (2023). **'**Trends in tropical forest loss and the social value of emission reductions'. *Nature Sustainability*, 6, pp. 1373–1384.
- Tedersoo L, Sepping J, Morgunov A S, Kiik M, Esop K, Rosenvald R, Hardwick K, Breman E, Purdon R, **Groom B**, Venmans F, Kiers E T and Antonelli A (2023). Towards a co-crediting system for carbon and biodiversity. *Plants, People, Planet*. 6 (1), pp 18-28.
- Howard P, **Groom B** et al. (2023). 'US Benefit-Cost Analysis requires revision.' *Science*, 380 (6647), pp 803.
- Nesje F, Drupp M, Freeman M C, and **Groom B** (2023). 'Philosophers and economists agree on climate policy paths but for different reasons'. *Nature Climate Change,* 13, pp 515-522.
- Balmford A, Swinfield T, …. **Groom B** et al. (2023). 'Credit credibility threatens forests'. *Science*, 380 (6644), pp. 466-467.
- **Groom B,** Drupp M, Freeman M C, and Nesje F (2022). 'The Future, Now: A Review of Social Discounting.' *Annual Review of Resource Economics*. 14, pp 467-491.
- **Groom B**, Palmer C and Sileci L (2022). 'Carbon emissions reductions from Indonesia's REDD+ Moratorium are cost-effective yet contribute little to Paris commitments'. *Proceedings of the National Academy of Sciences*, *PNAS,* 119 (5).
- **Groom B** and Pereira-Fontes F (2021). 'Revisiting the Link between Cereal Diversity and Production in Ethiopia'. *Q-open,* 1 (2).

PUBLICATIONS CONT'D

PUBLISHED ARTICLES

- zu Ermgassen S O S E, Bull J W and **Groom B**. (2021). 'UK biodiversity funding: big gap between reality and rhetoric'. *Nature Correspondence*, 595, pp 172.
- Venmans F and **Groom B** (2021). 'Social Discounting, Inequality Aversion and the Environment'. *Journal of Environmental Economics and Management*, 109, 102479.
- **Groom B** and Turk Z (2021). 'Reflections on the Dasgupta Review on the Economics of Biodiversity'. *Environmental and Resource Economics*. 79, pp 1-23.
- **Groom B** and Weinhold D (2021). 'New data on public biodiversity spending'. *Nature Ecology and Evolution*, 5, pp 409-410.
- Wagner G, **Groom B** et al. (2021). '8 priorities for calculating the social cost of carbon'. *Nature*, 590, p548.
- Haensel M, Drupp M, Nesje F, Johansson D, Azar C, Freeman M C, **Groom B** and Sterner T (2020). 'Climate economics support for the UN climate targets'. *Nature Climate Change*, vol 10, pp 781-789.
- Cavatorta E and **Groom B** (2020). 'Do deterrent policies change preferences? Evidence from a Natural Experiment'. *European Economic Review*, 127, 103456
- **Groom B** and Maddison D J (2019). 'New Estimates of the Elasticity of Marginal Utility for the UK'. *Environmental and Resource Economics,* vol. 72, issue 4, 1155-1182.
- Drupp M, Freeman M C, **Groom B** and Nesje F (2018). 'Discounting Disentangled: An Expert Survey on the Components of the Long-Term Social Discount Rate'. *American Econ. Journal: Econ Pol*, 10(4), pp109-34.
- Gorst A, **Groom B** and Dehlavi A (2018). 'Crop productivity and adaptation to climate change in Pakistan'. *Environment and Development Economics*, 23(6), pp. 679 – 701.
- Atkinson G, **Groom B**, Hanley N and Mourato S (2018). 'Environmental valuation and Benefit-Cost Analysis in UK Policy'. *Journal of Benefit Cost Analysis*, 9(1), pp 97-119.
- Emmerling J, **Groom B** and Wettingfeld T (2017). 'Discounting and the Representative Median Agent'. *Economics Letters*, 161, pp78-81.
- **Groom B** and Hepburn C (2017). 'Looking back at Social Discount Rates: The Influence of Papers, Presentations and Personalities on Policy'. *Review of Environmental Economics and Policy*, 11(2), p336–356.
- Andersen L, **Groom B**, Gutierrez D, Killick E, Ledezma J C, Palmer C and Weinhold D (2017). 'Modelling land use, deforestation, and policy analysis: A hybrid optimization-ABM heterogeneous agent model with application to the Bolivian Amazon'. *Ecological Economics*, vol 135, pp 76–90.
- Freeman M.C. and **Groom B** (2016). 'How certain are we about the certainty equivalent long-run social discount rate?' *Journal of Environmental Economics and Management*, 79, pp 152–168.
- Dietz S, **Groom B** and Pizer W (2016). 'Weighing the costs and benefits of climate change to our children.' *The Future of Children*, 26(1), pp133-55. Deschenes O and Currie J (eds), Princeton-Brookings.
- Groom B and Tak M (2015). 'Welfare Analysis of Changing Food Prices: A Nonparametric Examination of Rice Policies in India'. *Food Security*, 7(1), pp. 121-141 Groom and Tak (2015)
- Freeman M C, **Groom B** and Zeckhauser R (2015). 'Better Signals, Better Allocations: Scientific Advances and Adaptation to Climate Change'. *Philosophical Transactions of the Royal Society A*, vol 373, Issue 2055.
- Freeman M C, **Groom B,** Panopoulou K and Pantelides T (2015). 'Declining Discount Rates and the Fisher Effect: Inflated Past, Discounted Future'. *Journal of Environ. Economics and Management*. 73, pp 32-49.
- Freeman M C and **Groom B** (2015). 'Positively Gamma Discounting: Combining the Opinions of Experts on the Social Discount Rate'. *The Economic Journal*. Volume 125, Issue 585, pp. 1015–1024. Media summary.
- Cropper M L, Freeman M C, **Groom B** and Pizer W (2014). 'Declining Discount Rates'. *American Economic Review: Papers and Proceedings*, 104(5): pp. 538-43.
- Arrow, Kenneth J., Maureen L. Cropper, Christian Gollier, **Ben Groom**, Geoffrey M. Heal, Richard G. Newell, William D. Nordhaus, Robert S. Pindyck, William A. Pizer, Paul R. Portney, Thomas Sterner, Richard S. J. Tol and Martin L. Weitzman (2014). 'How Should Benefits and Costs be Discounted in an Intergenerational Context?' *Review of Environmental Economics and Policy*, 8(2) pp. 145-163..

PUBLICATIONS CONT'D

PUBLISHED ARTICLES CONT'D

- **Groom B** and Palmer C (2014). 'Relaxing Constraints as a Conservation Policy', *Environment and Development Economics*. 19(4) , pp 505-528, Groom and Palmer (2014),
- Arrow, Kenneth J., Maureen L. Cropper, Christian Gollier, **Ben Groom**, Geoffrey M. Heal, Richard G. Newell, William D. Nordhaus, Robert S. Pindyck, William A. Pizer, Paul R. Portney, Thomas Sterner, Richard S. J. Tol and Martin L. Weitzman (2013). 'Determining Benefits and Costs for Future Generations'. *Science*, 341 (6144). pp. 349-350.
- Freeman M C and **Groom B** (2013). 'Biodiversity and the Discounting Problem'. *Accounting, Auditing and Accountability Journal*, 26(5), pp. 715-745, Freeman and Groom (2013).
- Swanson T and **Groom B** (2012). 'Regulating Global Biodiversity: What's the problem?', *Oxford Review Economic Policy* 28(1): pp. 114-138, DOI:10.1093/oxrep/grs003
- **Groom B** and Palmer C (2012). 'REDD+ and Rural Livelihoods.' *Biological Conservation*, 154, pp. 42-52 Groom and Palmer (2012).
- Gatti J.R.J, Goeschl T, **Groom B** and Swanson T (2011). 'The Biodiversity Bargaining Problem'. *Environmental and Resource Economics*, 48(4), pp. 609-630.
- **Groom B** and Palmer C (2010). 'Cost Effective Provision of Environmental Services: The Importance of Market Constraints'. *Environment and Development Economics*, 15(2), pp. 219-240.
- **Groom B**, Koundouri P, Nauges C and Thomas A (2008). 'The Story of the Moment: Risk Averse Cypriot Farmers respond to Drought Management'. *Applied Economics*, 40, pp. 315–326.
- Hepburn C and **Groom B** (2007). 'Gamma Discounting and Expected Net Future Value'. *Journal of Environmental Economics and Management*, 53(1), pp. 99-109.
- **Groom B**, Kontoleon A, Swanson T (2007). 'Valuing Complex Goods: Or, can you get anything out of experts other than a decision?'. *Research in Law and Economics*, 23, pp. 301-331.
- **Groom B**, Hepburn C, Koundouri P and Pearce D (2005). 'Declining Discount Rates: the long and the short of it'. *Environmental and Resource Economics*, 32(4), pp. 445-493.
- Gatti R, Goeschl T, **Groom B** and Swanson T (2005). 'Incentivizing Ecological Destruction: The Joint International Regulation of the Conservation and Use of Biodiversity'. *Indiana Law Rev.*, 38(3), pp. 619-635.
- Pearce D, **Groom B**, Hepburn C and Koundouri P (2003). 'Valuing the Future: Recent Advances in Social Discounting'. *World Economics*, 4(2), pp. 121-141.
- **Groom B** and Swanson T (2003). "Missing Markets and Redundant Reservoirs: Dams as a Consequence of Inefficient Groundwater Management Policies". *Environmental and Resource Economics*, 26(1), pp. 125-144.

EDITED SPECIAL ISSUES

- **Groom B**, Freeman M C, Agarwala M and McKenzie E (2025). 'Biodiversity and Finance' Special Issue of *Ecological Economics*.

WORKING PAPERS

- Xin W, Grant L, **Groom B**, and Zhang C (2023). 'Biodiversity Confusion: The impact of ESG biodiversity ratings on asset prices'. SSRN Working Paper. (R&R).
- van der Ploeg F, Emmerling J, and **Groom B** (2022). The Social Cost of Carbon with Inequality and Economic Uncertainty. CESIFO working paper.
- *C*avatorta E and **Groom B** (2019). 'Hyperbolic discounting in the absence of credibility'. Centre for Climate Change Economics and Policy Working Paper No. 319.
- Pereira-Fontes F and **Groom B** (2018). 'Revisiting the Link between Cereal Diversity and Production in Ethiopia'. Grantham Research Institute Research Paper, No. 297.
- Gorst A, **Groom B** and Dehlavi A (2015). 'Crop productivity and adaptation to climate change in Pakistan'. Centre for Climate Change Economics and Policy Working Paper No. 214.

PUBLICATIONS CONT'D

WORKING PAPERS CONT'D

- Drupp M, Freeman M C, **Groom B** and Nesje F (2015). `Discounting Disentangled: An Expert Survey on the Components of the Long Term Social Discount Rate. Grantham Research Institute on Climate Change and the Environment Working Paper No. 172.
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- **Groom B** (2018). Chs 8, 9 and 14 on Discounting, Uncertainty, Social Cost of Carbon in OECD (2018), in 'Cost benefit Analysis and the Environment: Further Developments and Policy Use', by Atkinson G, Braathan N-A, Mourato S and Groom B. Atkinson et al. (2018)
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- **Groom B** (2010). 'Social discounting and intergenerational justice', Ch. 12 in 'DD309 Doing Economics: People, Markets and Policy'. Open University Press.
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- **Groom B**, Liu X, Swanson T and Zhang S (2008). 'Resource Pricing and Poverty Alleviation: The Case of Block Tariffs for Water in Beijing', Ch 9 in 'Coping with Water Deficiency: From Research to Policy Making: From Research to Policy Making', Koundouri P (ed), Springer

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- **Groom B** (2015). 'Natural Capital: Valuing the Planet' by Dieter Helm. *Journal of Economic Literature*. 53(4) pp 1043-1045.
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- Drupp M, … **Groom B**, et al. (2023). Public Consultation Response on proposed revisions to Circular A-4 Adjusting relative prices of non-market environmental goods.
- Filewod B, Mercer L, Pierfederici R and **Groom B** (2023) Response to the UNFCCC's A6.4-SB005-A02 Information Note: Guidance and questions for further work on removals.
- Freeman M.C, Drupp M, **Groom B** and Nesje F (2023). Public Consultation Response Standards of Performance for New, Reconstructed, and Modified Sources and Emissions Guidelines for Existing Sources: Oil and Natural Gas Sector Climate Review: EPA-HQ-OAR-2021-0317-1460.
- **Groom B** and Venmans F (2022). UNFCCC public consultation on Document A64-sb002-aa-a06: Input to Public consultation.

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- Freeman M C and **Groom B** (2026). HM Treasury Discount Rate Review.
- Delacote P, Crepin A, **Groom B** and L'Horty T (2024). 'Cap & Trade systems are not a feasible way to restore carbon markets credibility' Science eLetter response to 'Can the market in voluntary carbon credits help reduce global emissions in line with Paris Agreement targets?' by Rohini Pande. *Science*.
- IPBES Values Assessment (2022). Contributing author.
- Lancet Commission on COVID-19 and Green Recovery report (2022). Contributing author.
- Planet Tracker Report on Resource dependent exporters (2022). Contributing author.
- HMT Environmental Discount Rate Review (2021). Conclusion of HMT workshops.
- Freeman M.C. and **Groom B** (2021). Appraisal and Accounting Think-piece. Department of Transport, UK Government.
- Freeman M.C. and **Groom B** (2020). 'A social discount rate for measuring global heritage sub-seabed resource wealth'. A report to the UN International Seabed Authority.
- 'What would Weitzman Say?'. Obit for the LSE business review blog. September 2019.
- Freeman M C, **Groom B** and Spackman M (2018). Social Discount Rates for Cost Benefit Analysis: A report for HM Treasury.
- Clacher I, Claxton K, Freeman M C, **Groom B,** (2017). Discounting for Environmental Accounts. Phase II report to ONS.
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- Freeman M.C., **Groom B** and Zeckhauser R (2015). 'Refining the climate science will be essential for firms' ability to adapt to global warming'. LSE Business Review, December 2nd.
- Freeman M.C., **Groom B** and Zeckhauser R (2015). 'A morale boosting result for climate scientists'. Harvard Kennedy School of Government News Article.
- **Groom B** and Freeman M C (2015). 'Too many experts spoil the policy'. Times Higher Education: THE.
- **Groom B** and Freeman M C (2015). 'Positively Gamma Discounting' Media summary from the Royal Economic Society. RES.
- Dehlavi A, Gorst A, **Groom B** and Zaman F (2015). 'Climate Change Adaptation in the Indus Ecoregion: A microeconometric study of the determinants impacts and cost effectiveness of adaptation strategies'. WWF-PAK, IDRC, LUMS. WWF-PAK (press release).
- **Groom B** (2014). Biodiversity Offsets: Pros, cons and practical matters. BIOECON - UNEP Policy Brief, 13.
- Diagne A, Glover, S, **Groom B** and Phillips J (2014). 'Africa's Green Revolution? Raising Awareness of New Rice Crops for Africa (NERICAs)', The World Financial Review.
- **Groom B** (2013). 'The Challenges of Reducing Deforestation and how Scientific Simulations can help'. Comment on SIMPACHAMAMA, INESAD, Bolivia.
- **Groom B** (2013). 'How Should Benefits and Costs be Discounted in an Intergenerational Context? The proceedings of an USEPA/RFF Workshop'. EAERE Newsletter, Spring 2013. EAERE
- **Groom B** (2012). 'las complejas causas de la deforestacion en Bolivia', Inspira, 17. Inspira Article
- **Groom B** (2010). 'Why Negotiations Stalled at Copenhagen'. SOAS Centre for Development Policy Research, Development Viewpoint #50. SOAS DV

RESEARCH PROJECTS: AWARDS AND APPLICATIONS

- Nuffield Foundation: Distributional Effects of Net Zero Land Use Change. £3m. PI (Submitted).
- BIOACRES: UKRI-NERC. Co-I. £1.2m (Submitted).
- Horizon ECONATURES project. Co-I. 400k.
- NERC-UKRI BIOESG (Finance, Biodiversity and ESG) project (PHASE II). £150k. November 2023.
- NERC-UKRI BIOESG (Finance, Biodiversity and ESG) project. £150k. November 2022.
- NERC-UKRI BIOADD (The economics of BIOdiversity ADDitionality) project. with LSE, SDSN (Bolivia) and Carbon Plan. Principle Investigator, £1m. October 2022.
- MISTRA BIOPATH project (recent award with Gothenburg University): Finance and Biodiversity Research. Co-Investigator. £30k.
- NERC AGILE project with Oxford Zoology: £200k. Co-Investigator.
- NERC RENEW project. £12m. Co-Investigator.
- NERC Synthesis Grant: £48k. Principal Investigator: March 2022-June2022
- The evolution of political preferences in Palestine. STICERD Grant award, July 2019, £5242.
- The Indonesian Moratorium on Oil Palm Production. South East Asia Centre, LSE. Grant award: £5000.
- An investigation of individual Palestinian expectations and attitude change in response to conflict in the Palestinian territories. LSE Middle East Centre internal call. Grant award: £98000.
- 'Combining Expert Opinions and Public Preferences. STICERD Grant award, March 2016, £4965.
- 'Combining Expert Opinion on Valuing the Future. RIIF seed funding award, Feb 2016, £2650.

RESEARCH PROJECTS: AWARDS AND APPLICATIONS

- 'The Social Discount Rate for Intergenerational Projects: The role of Expert Opinions'. 2013 LSE seed funding. 1 year, £5000. Role: Principal Investigator.
- 'The Value of Statistical Life in Mexico'. 2013 LSE Seed funding. 1 year, £5000. Role: Principal Investigator.
- 'The REDD Game: A didactic tool for designing effective, efficient and equitable policies to deliver REDD in Bolivia.' ESPA funded project joint with LSE Department of Geography and Environment and Conservation International Bolivia. Duration: 2 Years. Budget: SOAS element: £25000. Role: Researcher.
- 'Agriculture, Food Security and Climate Adaptation on the Indus River Delta, Pakistan'. International Development Research Centre (IDRC) funded project joint with WWF Pakistan, Lahore University Management School (LUMS). Duration 2 years. Budget: £60000. Role: Principal Investigator. 2013-2015.
- 'Mainstreaming disaster risk reduction and climate adaptation in the Indus Ecoregion, Pakistan'. Global change SysTems for Analysis, Research and Training (START) and Climate and Development Knowledge Network (CDKN), joint with WWF Pakistan and University of Kelaniya, Sri Lanka. Duration 2 years. Budget: US$106000. Role: Co-investigator. 2013-2015.
- 'Measuring and Assessing the Impacts of Crop Genetic Improvement in Africa: The case of Rice, Pearl Millet and Sorghum.' DIIVA II project funded by the Gates Foundation. Joint with AfricaRice, IRRI and ICRISAT. Duration: 2 years. SOAS Budget: $51700. Role: Principal Investigator. 2010-2012. 2010-2012

CURRENT AND COMPLETED PHD SUPERVISION

- Violet Lasdun (2023- present day). Subjective expectations and other determinants of crop trait choices in Tanzania. LSE
- Lorenzo Sileci (2023). Causal inference in spatial environmental economics. (Winner of EAERE best PHD prize 2024)
- Leanne Cass (2022). Essays on the economics of climate change and international trade. LSE
- Anshuman Tiwari (2022). Essays on the economic consequences of environmental pollution and climate change in India, LSE.
- Zachary Turk (2020). Simple solutions to Intractable Economic Problems. LSE
- Frikk Nesje (2020). Intergenerational Equity and Climate Change. University of Olso. (Winner of EAERE best PHD prize 2021, winner of best economist under the age of 40, 2026).
- Julius Andersson (2020). The Distributional Effects of Carbon Taxes. LSE. (Ch 1 winner of best paper in AEJ: Economic Policy, 2018).
- Gregor Singer (2019). Essays in Material Efficiency. LSE.
- Maria Piedade Coruche (2018). Essays in Seed Security and Seed Sovereignty, LSE.
- Francisco Pereira Fontes (2017). Essays in Agricultural Economics. LSE
- Ashley Gorst (2017). Agriculture, technology and climate change. LSE.
- Marcelo Rocha da Lima. The value of air quality improvements in Mexico. LSE
- Moniruzziman Shaikh (2017). Adaptation to climate change and natural disasters in Bangladesh, LSE.
- Thomas Bligaard Nielsen (2016) (co-supervisor). Oil extraction, uncertainty and spatial competition. LSE
- Osiel Gonzalez-Davila (2015). Economic Behaviour and Groundwater Contamination. SOAS
- Emanuele Campiglio (2011). Essays in the economics of renewable energy and climate change. SOAS
- Reut Barak (2010). River Basin management in China: Can inter-provincial cooperation reduce transboundary pollution? SOAS.
- Akihito Aihara (2009). Paradoxes of Higher Education Reforms: Implications on the Malaysian Middle Class. SOAS.

PHD EXAMINATIONS

- Patrick Oko Quaye. 'Ecological sensemaking in organisations: formative experiences, managerial ambivalence, and the precarious embedding of biodiversity and nature loss'. Exeter.
- Chloe Baudet (2025). 'Towards sustainable lighting: socio-economic analyses of light pollution policies'. Paris-Saclay.
- Sarah Elven (2025). 'Environment-Development trade-offs in developing countries', LSE.
- Frankie Cho (2024). 'Uncertainty and natural capital decision-making'. Exeter.
- Valentin Guye (2023). 'Forest, Food and Fuel: Empirical Identification of Global Sustainability Trade-offs'. Paris Saclay.
- Matthew Agarwala (2020). 'Sustainable development goals and sustainability'. LSE.
- Francoise Bareille (2018). 'Essays in Agricultural and Environmental Economics'. University of Rennes, INRA
- Ying Chen (2018). 'Essays on Urban and Environmental Economics in Developing Countries'. LSE.
- Louise Kessler (2018). 'Essays on Uncertainty in Climate Change'. LSE
- Samuel Dadzie (2015). 'Decision-making under uncertainty: A study of Ghanaian Farmers'. Reading University.
- Petterson Molina Vale (2015). 'Land use intensification in the Amazon is not a flying cow', LSE.
- Murray Collins (2014). 'Quantifying environmental indicators and assessing performance in tropical forest management', LSE
- Xavier Vollenweider (2014). '5 essays in Agriculture and Development'. LSE.
- Charles Chen (2013). 'The Dynamics of Privatisation in China'. School of Oriental and African Studies.
- Rhona Barr (2013). 'Marine Payments for Environmental Services'. LSE.
- Johannes Emmerling (2011). 'Essays in Risk, Precaution and Discounting'. University of Toulouse
- Aygul Ozbal (2011). 'Estimating the Willingness to Pay for Reliable Electricity Supply in Northern Cyprus'. Birmingham University.

ACADEMIC ROLES AND TEACHING

- Head of Environmental Economics and Policy Cluster, Department of Geography and Environment, LSE.
- Programme Director for the MSC Environmental Economics and Climate Change, LSE.
- Programme Director for PHD in Environmental Economics, LSE.

Teaching:

- London School of Economics: Applied Quantitative Methods (GY428, core course), Environmental and Resource Economics (GY426, core course), Environment and Development (GY469, core course).
- Imperial College London: Lecture on Discounting and Intergenerational Equity. February 2012 and 2013
- SOAS MSc Development Economics: Microeconomics, Economics of Environment and Development, QM III (topics in micro-econometrics, 2012).
- SOAS BA, BSc Economics: 2006-2011: Econometrics (2nd year), Applied Econometric Techniques (3rd year); 2006-2007: Advanced Economic Analysis (micro, macro, 3rd year).
- SOAS Diploma in Economics: 2005: Microeconomics.

LANGUAGES

- English: Mother tongue
- Spanish: Intermediate in speaking, reading and writing