

## Dr Christian Brand, *Curriculum Vitae*

**ADDRESS:** Transport Studies Unit  
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### Current Position

**Senior Research Fellow and Associate Professor** in Transport, Energy and the Environment across the Transport Studies Unit and Environmental Change Institute, School of Geography and the Environment, University of Oxford. Leader, Transport and Mobility Theme, Energy Research Programme, Environmental Change Institute. Leader, Energy and Environment Theme, Transport Studies Unit. Leader, Health and Wellbeing Theme, Transport Studies Unit.

Assad Kotaite **Senior Research Fellow** in Transport Studies at Linacre College, Oxford

### Primary Research Areas

- Transport, energy and climate change policy
- Multi-scale decision support systems and integrated systems modelling
- The role of active travel in meeting public health, climate change and sustainable urban development objectives
- Reduced energy consumption, behavioural change and socio-technical transitions towards low-carbon, energy efficient transport systems
- Implementation and evaluation of travel and energy demand management initiatives

### Top 5 publications

Publication	Reason for nomination
1. <b>Brand, C.</b> and Boardman, B. (2008) Taming of the few – The unequal distribution of greenhouse gas emissions from personal travel in the UK. <i>Energy Policy</i> , 36(1): 224-238.	<i>First study to show the highly unequal distribution of personal transport emissions and the importance of international air travel. Substantial interest from national and international media, including the New York Times, International Herald, Guardian &amp; BBC.</i>
2. <b>Brand, C.</b> , Tran, M. and Anable, J. (2012) The UK Transport Carbon Model: an integrated life cycle approach to explore low carbon futures. <i>Energy Policy</i> , 41: 107-124.	<i>Newly developed strategic transport, energy, emissions and environmental impacts modelling tool. Documentation downloaded from UKERC website 6000+ times. Used by top UK research groups (UCL, Leeds, Cambridge).</i>
3. <b>Brand, C.</b> , Goodman, A. and Ogilvie, D. (2014) Evaluating the impacts of new walking and cycling infrastructure on carbon dioxide emissions from motorized travel: A controlled longitudinal study. <i>Applied Energy</i> , 128: 284-295.	<i>First controlled longitudinal cohort study evaluating the effects of physical interventions for walking and cycling on carbon emissions and energy use across populations. High IF.</i>
4. <b>Brand, C.</b> , Anable, J., Tran, M. (2013) Accelerating the transformation to a low carbon passenger transport system: The role of car purchase taxes, feebates, road taxes and scrappage incentives in the UK. <i>Transp. Res.: Part A: Pol. Practice</i> 49, 132-148.	<i>Highly topical not only in the UK policy context. Fills the gap in robust assessments of the life cycle energy and environmental impacts of car purchase taxes, 'feebates', road taxes and scrappage incentives.</i>
5. Anable, J., <b>Brand, C.</b> , Tran, M. and Eyre, N. (2012) Modelling transport energy demand: a socio-technical approach.	<i>Novel approach using an integrated suite of sectoral and whole systems models to explore future energy pathways. Highly policy relevant.</i>

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### Academic Qualifications

- 2006: DPhil University of Oxford, School of Geography and the Environment  
1996: MSc Environmental Technology, Imperial College London, Centre for Environmental Policy  
1994: Dipl.-Phys. Physics, University of Heidelberg, Germany (*cum laude*)

### Positions held

Institution	Dates	Role
<b>University of Oxford:</b> Transport Studies Unit and Environmental Change Institute, School of Geography and the Environment	May 2001 - present	<i>Senior Research Fellow and Associate Professor (grade 9, from 2014). Theme Leader (since 2014). Senior Researcher and Project Manager (grade 8, 2007 - 2014) Research Fellow (grade 7, 2001 - 2007)</i>
<b>Linacre College, Oxford</b>	Apr 2012 - present	<i>Assad Kotaite Senior Research Fellow in Transport Studies, Member of GB</i>
<b>University of Oxford:</b> School of Geography and the Environment	Oct 2003 - Sep 2006	<i>DPhil: 'Personal Travel and Climate Change: exploring greenhouse gas emissions from personal travel activity of individuals and households'</i>
<b>AEA Technology Environment, Culham:</b> Strategic Studies Department	Nov 1998 - May 2001	<i>Senior Consultant and Team Leader</i>
<b>European Commission, Joint Research Centre, Ispra, Italy</b>	Apr 1998 - Oct 1998	<i>Scientific Expert, Transport and Environment</i>
<b>AEA Technology Environment, Harwell:</b> Energy Technology Support Unit	Oct 1996 - Mar 1998	<i>Transport Researcher</i>
<b>Ernst &amp; Young, London</b>	Apr 1995 - Sep 1995	<i>IT Consultant</i>
<b>IBM European Networking Centre, Heidelberg, Germany</b>	Nov 1990 - Mar 1994	<i>Trainee Researcher (p/t)</i>

### Teaching and Course Development

- Lecturing on postgraduate Energy modules in the School of Geography and the Environment on: Transport and Energy, Transport Policy, Environmental Impacts of Transport. Repeatedly receiving highly positive feedback from students, and regularly leading to supervision of MSc Dissertation projects on related topics.
- Having led option tutorials on Transport and Energy, MSc in Environmental Change and Management, School of Geography and the Environment.
- Contributed to course development, Global Challenges in Transport, Oxford Leadership Programme, Transport Studies Unit, Oxford.
- Guest lecturer on a number of external courses, e.g. *Oxford Brookes University, Department of Mechanical Engineering and Mathematical Sciences; Imperial College, London, MSc Environmental Technology; UK Energy Research Centre Annual Summer School.*

### Supervision and Examining

#### Doctoral Supervision

- *Technology innovation and policy instruments to advance low-carbon transport and renewable energy use in developing Asian economies*, Toru Kubo, on-going (Co supervisor, self funded). Toru is working for the Asian Development Bank in Manila and plans to complete on a P/T basis in 2017.

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- *Investigating the Interactions of Travel Behaviour and Wellbeing: A Longitudinal, Mixed-methods Case Study of Penarth and Cardiff, Wales*, Lucy Mahoney, completed TT 2015 (Lead supervisor, funded by EPSRC). Lucy now works for Transport for London on public transport strategy.
- *The impact of new walking and cycling infrastructure on personal travel and carbon emissions: the case of Cardiff Connect2*, Andre Neves, completed TT 2015 (Lead supervisor, funded by EPSRC). Andre now works for Transport for London on cycling strategy.
- *Electric Vehicles in China: Past, Present and Future*, Zichen Zhang, completed TT 2015 (Co supervisor, funded by Chinese Government grant). Zichen now works for the World Bank in Beijing.
- *The road not taken?: a longitudinal and interdisciplinary examination of energy behaviours*, Malek Al-Chalabi, completed HT 2014 (Co supervisor, self funded). Malek now works for Shell in Dubai.
- *Accelerating the uptake of low carbon vehicles*, Craig Morton, completed 2013 (External co-supervisor, University of Aberdeen, funded by NERC UK Energy Research Centre Phase 2). Craig now works as Research Fellow at the University of Leeds.

### Examining

- (internal) DPhil, University of Oxford, School of Geography and the Environment: *Strategic Appraisal of Interdependent Infrastructure Provision*, Katherine Young (March 2016).
- (external) PhD, University of Leeds, School of Earth and Environment, *GHG Emission Mitigation in the Road Transport Sector of the Kingdom of Bahrain*, Maha Alsabbagh (May 2016)
- (internal) DPhil, University of Oxford, School of Geography and the Environment: *Sub-national government responses to reducing the climate impact of cars*, Karen Anderton (December 2012).
- (external) DPhil, University College Cork, School of Engineering, Department of Civil & Environmental Engineering: *Transport energy demand: techno-economic modelling and scenarios for Irish climate policy*, Hannah Daly (November 2012).
- (internal) DPhil, University of Oxford, School of Geography and the Environment: *Electric cars in China: energy, infrastructure and market potentials*, Jian Liu (October 2012).
- (internal) DPhil, University of Oxford, School of Geography and the Environment: *Modelling innovation diffusion in complex energy-transport systems*, Martino Tran (December 2011).

*In addition, I have supervised approximately 20 Masters dissertation research projects in my time at Oxford.*

### Other University Responsibilities

- Social Science Division Representative on the University's Transport Strategy Steering Group (2013-2015)
- Acting Deputy Director (with Karen Lucas, Moshe Givoni, Tim Schwanen) of the Transport Studies Unit, School of Geography and the Environment (2009-2010)
- Academic Reviewer, Graduate Study Applications, School of Geography and the Environment (2009-to date)
- Member of CUREC Committee, representing TSU, School of Geography and the Environment (2009-2010)
- Member of IT Committee, representing TSU (then based in Bevington Road), School of Geography and the Environment (2003-2005)
- Deputising ECI Energy Programme Leader at ECI management meetings
- Staff mentoring and appraisal: Dr Tim Jones, TSU (2008-2013), Dr Martino Tran, ECI (2008-2012), Dr Noam Bergman, ECI (2013), Andre Neves, TSU (2012-15), Lucy Mahoney, TSU (2012-15)

### External Appointments:

- Scientific Advisor: World Health Organization (WHO), Regional Office for Europe, Transport and Health, Copenhagen (2008-to date) (invited)

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- Scientific Advisor: World Health Organization (WHO), Regional Office for Europe, European Centre for Environment and Health, Bonn (2015-to date) (invited)
- Expert Panel: EPSRC, Interdisciplinary Transport Energy Demand Scoping Workshop (03/2015) (invited, with presentation)
- Expert Panel: Committee on Climate Change (CCC), Transport Systems Modelling and the 4<sup>th</sup> UK Carbon Budget, London (2012-2013) (invited, with presentation)
- Expert Panel: RCUK Energy Strategy Fellowship, Transport Energy (06/2013) (invited)
- Scientific Advisor: Sustrans, Active Travel and Climate Change, Bristol (2004-2013)
- Expert Panel: Oxford City Council & Oxfordshire County Council, Oxford Cycle Vision & Strategy (2014) (invited)
- External Review Panel: University of Warwick HS2 Forum (06/11-05/12)
- Expert Panel: DECC/4CMR, Modelling the UK transport system for climate change policy analysis (03/09) (invited, with presentation)
- Scientific Advisor: Eurostar/GNER, Comparison of CO<sub>2</sub> emissions from rail vs short haul air travel (11/07-01/08)

### Honours and Fellowships

- Award of title of Associate Professor, University of Oxford (2016).
- Award for Excellence, University of Oxford (2014).
- New Research Fellowship Award, SoGE, University of Oxford. *Towards Lower Domestic and Transport Energy Use*. Award aimed at developing a common area of research interest between ECI and TSU (2003).

### Selected Other Professional Activities

#### Peer review of funding proposals:

- EPSRC and ESRC Responsive Mode (2012 - to date) and Fellowships (2013 - to date)
- U.S. National Center for Sustainable Transportation, Federal Research Grants (2014)
- Netherlands Organisation for Scientific Research (2014)

#### Other

- Conference committees: World Conference of Transport Research Society, Member of Special Interest Group "Transport and Environment" (2013 - to date); Panel Member, Universities' Transport Study Group, Annual Conference (Oxford, 2013); Scientific Advisory Board, 'Energy and people: futures, complexity and challenges' International Conference (Oxford, 2011); Panel Member, Transport stream, 'European Council for an Energy Efficient Economy' (France, 2007).
- Non-Executive Director, MobOx C.I.C. (Mobility Oxford Laboratory), spin-out from TSB Integrated Transport feasibility study (2014 - to date).
- Professional membership (invited): The European network for the promotion of health-enhancing physical activity, HEPA (2012 - to date), Transport Statistics User Group (2009 - to date).
- Member of Oxford University Delegation to Korean Institute of Energy Research, UK-Republic of Korea collaboration, high level MoU signed in 2014 (2013-2014)
- Peer Reviewer for more than 50 articles in 20 Journals including: *J o Energy Policy, Applied Energy, J of Transport Policy, J of Transport Geography, J of Transport Reviews, Nature Climate Change, Environmental Research Letters, Transportation Research A – Policy & Practice, Transportation Research D – Transport & Environment, Environmental Modelling & Software, Transportation, Travel Behaviour & Society, Energy Economics, Environmental Science & Policy, Global Environmental Change, J o Transport & Health.*

## Major Grants and Sponsored Research since 2001 (FEC £ to Oxford University)

- **EPSRC:** UK Energy Research Centre Phase III Research Fund, Accelerating Decreases in VAN Carbon Emissions (adVANce) (11/16-07/18) (Co-I) (£300k total, £60k to OU)
- **EPSRC:** Centre for Sustainable Road Freight, Maximising Home Delivery (05/16-12/17) (Named Researcher) (£90k to OU)
- **EC FP7:** PASTA: Physical Activity Through Sustainable Transport Approaches, HEALTH.2013.3.3-1 – Social innovation for health promotion (11/13-10/17) (PI) (602624) (£5.3m total, £95k to OU)
- **EPSRC, NERC & ESRC:** UK Energy Research Centre Phase III: Decision Making Theme (Transport) (05/14-04/19) (Recognised Researcher) (EP/L024756/1) (£875k to OU)
- **EPSRC IAA:** iConnect; knowledge transfer to policy and practice for future active travel development (05/14-09/15) (PI) (EP/K503769/1) (£84k initial grant plus extension)
- **Oxfordshire County Council & Santander:** Oxfordshire's Low Carbon Economy (05/14-01/15) (Recognised Researcher) (£25k)
- **TSB, Integrated Transport – In-Field Solutions:** MobOx Oxford Transport Laboratory Phase 1 (05/14-07/14) (Co-I) (37425-278171) (£12k)
- **Korean Institute of Energy Research:** Future Roadmaps of Transportation Energy and Technology (07/13-12/13) (PI) (£31k)
- **NERC, EPSRC & ESRC:** UK Energy Research Centre Phase II: Energy Demand Theme (Transport), Research Fund: Exploring the timing and scale of uptake of plug-in vehicles in the private car market in the UK: a disaggregated consumer segmentation approach (05/13-04/14) (Co-I) (NE/G007748/1) (£70k)
- **EPSRC:** EPSRC Supplement, iConnect, Impact of Constructing Non-motorised Networks and Evaluating Changes in Travel (09/13-11/13) (PI) (£12k)
- **John Fell OUP Research Fund** Real time vehicle monitoring for energy efficiency in transport (01/13-07/13) (Named Researcher and Grant Writer) (£112k)
- **John Fell OUP Research Fund:** Towards an integrated carbon and health economic assessment tool for walking and cycling (12/12-12/13) (Named Researcher and Grant Writer) (113/306) (£66k)
- **NERC, EPSRC & ESRC:** UK Energy Research Centre Phase II: Energy Demand Theme (Transport), additional funding: To explore the socio-technical challenges of electrification of the UK vehicle stock (05/12-04/14) (Named Researcher and Grant Writer) (NE/G007748/1) (£102k)
- **EPSRC:** iConnect: Measuring and Evaluating the Travel, Physical Activity and Carbon Impacts of Connect2 (05/08-11/13) (PI and Grant Writer) (EP/G00059X/1) (£2.8m total, £501k to OU)
- **Joseph Rowntree Foundation:** Understanding the Social Impacts of UK Climate Policies (10/09-05/11) (PI) (£85k total, £10k to OU)
- **NERC, EPSRC & ESRC:** UK Energy Research Centre Phase II: Energy Demand Theme (Transport) (05/09-04/14) (Named Researcher and Grant Writer) (NE/G007748/1) (£1m to OU)
- **Tesco plc:** Tesco Staff Carbon Profiles Project (06/07-07/07) (Co-I) (£13k)
- **European Environment Agency:** Framework Service Contract, Expert Assistance in the Area of Transport, Emissions and Environment (11/06-09/07) (Named Expert) (EEA/EAS/06/003) (£6k)
- **NERC, EPSRC & ESRC:** UK Energy Research Centre Phase I: Demand Reduction Theme (Transport) (10/04-04/09) (Named Researcher and Grant Writer) (NE/C513169/1) (£850k to OU)
- **NERC:** TSEC-BIOSYS: A whole-system approach to analysing bioenergy demand and supply: mobilising the long-term potential of bioenergy (09/05-02/09) (Named Researcher) (NE/C516279/1) (£738 total, £94k to OU)
- **ESRC:** Integrated travel emissions profiles (01/04-03/06) (Named Researcher and Grant Writer) (RES-000-22-0564) (£47k to OU)

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- **Department for Transport, New Horizons Programme:** Transport and Access to Health Care: The Potential of New Information Technology (12/02-03/04) (Named Researcher) (STP14/6/24) (£45k)
- **EPSRC, Future Integrated Transport:** Tools For Evaluating Strategically Integrated Public Transport (TEST) (05/01-05/03) (Named Researcher) (GR/R19106/01) (£90k)

## Publications

### Refereed articles and editorials - *published*

- Brand, C.** (2016) Beyond 'Dieselgate': Implications of unaccounted and future air pollutant emissions and energy use for cars in the United Kingdom. *Energy Policy*, 97: 1-12.
- Gerike, R., de Nazelle, A., Nieuwenhuijsen, M., Panis, L.I., Anaya, E., Avila-Palencia, I., Boschetti, F., **Brand, C.**, Cole-Hunter, T., Dons, E., Eriksson, U., Gaupp-Berghausen, M., Kahlmeier, S., Laeremans, M., Mueller, N., Pablo Orjuela, J., Racioppi, F., Raser, E., Rojas-Rueda, D., Schweizer, C., Standaert, A., Uhlmann, T., Wegener, S. and Götschi, T. (2016) Physical Activity through Sustainable Transport Approaches (PASTA): a study protocol for a multicentre project. *Public Health*, 6(1).
- Dons, E., Götschi, T., Nieuwenhuijsen, M., de Nazelle, A., Anaya, E., Avila-Palencia, I., **Brand, C.**, Cole-Hunter, T., Gaupp-Berghausen, M., Kahlmeier, S., Laeremans, M., Mueller, N., Orjuela, J., Raser, E., Rojas-Rueda, D., Standaert, A., Stigell, E., Uhlmann, T., Gerike, R. and Int Panis, L. (2015) Physical Activity through Sustainable Transport Approaches (PASTA): protocol for a multi-centre, longitudinal study. *BMC Public Health*, 15(1126).
- Götschi, T., Standaert, A., Eriksson, U., Dons, E., Panis, L.I., Kahlmeier, S., de Nazelle, A., Anaya, E., Nieuwenhuijsen, M., Rojas-Rueda, D., **Brand, C.** and Gerike, R. (2015) A29 Physical Activity through Sustainable Transport Approaches (PASTA) – a pan-European web-based survey on determinants of active travel behaviour using an opportunistic sampling approach. *Journal of Transport and Health*, 2(2): 19-20.
- Rojas-Rueda, D., Anaya, E., Avila-Palencia, I., **Brand, C.**, Cole-Hunter, T., de Nazelle, A., Dons, E., Frick, F., Gerike, R., Götschi, T., Kahlmeier, S., Mueller, N., Nilsson, A., Nussio, F., Orjuela, J.P., Panis, L.I., Racioppi, F., Rothballer, C., Sanchez, J., Schweizer, C., Uhlmann, T., Wegener, S. and Nieuwenhuijsen, M. (2015) A13 Comprehensive Health Impact Assessment for Active Travel: A "PASTA" project approach. *Journal of Transport and Health*, 2(2): 11-12.
- Brand, C.**, Goodman, A. and Ogilvie, D. (2014) Evaluating the impacts of new walking and cycling infrastructure on carbon dioxide emissions from motorized travel: A controlled longitudinal study. *Applied Energy*, 128: 284-295.
- Morton, C. Anable, J. and **Brand, C.** (2014) Policy making under uncertainty in electric vehicle demand. *Proceedings of the Institution of Civil Engineers – Energy*, 167(3): 125-138.
- Tran, M., **Brand, C.** and Banister, D. (2014) Modelling diffusion feedbacks between technology performance, cost and consumer behaviour for future energy-transport systems. *Journal of Power Sources*, 251: 130-136.
- Brand, C.**, Anable, J., and Tran, M. (2013) Accelerating the transformation to a low carbon transport system: the role of car purchase taxes, feebates, road taxes and scrappage incentives in the UK. *Transportation Research A*, 49, pp.132-148.
- Brand, C.**, Goodman, A., Rutter, H., Song, Y. and Ogilvie, D. (2013) Associations of individual, household and environmental characteristics with carbon dioxide emissions from motorised passenger travel. *Applied Energy*, 104: 158-169.
- Song, Y., Preston, J.M. and **Brand, C.** (2013) What explains active travel behaviour? Evidence from case studies in the UK. *Environment and Planning A*, 45(12): 2980-2998.
- Anable, J., **Brand, C.**, Tran, M. and Eyre, N. (2012) Modelling transport energy demand: a socio-technical approach. *Energy Policy*, 41, pp.125 - 138.

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- Brand, C.**, Tran, M. and Anable, J. (2012) The UK Transport Carbon Model: an integrated lifecycle approach to explore low carbon futures. *Energy Policy*. Vol 41, pp. 107-124.
- Goodman, A., **Brand, C.** and Ogilvie, D. (2012) Associations of health, physical activity and weight status with motorised travel and transport carbon dioxide emissions: a cross-sectional, observational study. *Environmental Health*, 11(52).
- Ogilvie, D., Bull, F., Cooper, A., Rutter, H., Adams, E., **Brand, C.**, Ghali, K., Jones, T., Mutrie, N., Powell, J., Preston, J., Sahlqvist, S. and Song, Y. (2012) Evaluating the travel, physical activity and carbon impacts of a 'natural experiment' in the provision of new walking and cycling infrastructure: methods for the core module of the iConnect study. *BMJ Open*, 2012(2). e000694.
- Ogilvie, D., Bull, F., Powell, J., Cooper, A.R., **Brand, C.**, Mutrie, N., Preston, J.M. and Rutter, H. (2011) An applied ecological framework for evaluating infrastructure to promote walking and cycling: the iConnect study. *American Journal of Public Health*, 101(3): 473-481.
- Brand, C.** and Preston, J.M. (2010) '60-20 emission'—The unequal distribution of greenhouse gas emissions from personal, non-business travel in the UK. *Transport Policy*, 17(1): 9-19.
- Jablonski, S., Strachan, N., **Brand, C.** and Bauen, A. (2010) The role of bioenergy in the UK's energy future formulation and modelling of long-term UK bioenergy scenarios. *Energy Policy*, 38(10): 5799-5816.
- Powell, J., Dalton, A., **Brand, C.** and Ogilvie, D. (2010) The health economic case for infrastructure to promote active travel: A critical review. *Built Environment*, 36(4): 504-518.
- Brand, C. (2009) "Hockey sticks" made of carbon: unequal distribution of greenhouse gas emissions from personal travel in the United Kingdom. *Transportation Research Record: Journal of the Transportation Research Board*, 2139: 88-96.
- Givoni, M., **Brand, C.** and Watkiss, P. (2009) Are railways climate friendly? *Built Environment*, 35(1): 70-86.
- Brand, C.** and Boardman, B. (2008) Taming of the few – The unequal distribution of greenhouse gas emissions from personal travel in the UK. *Energy Policy*, 36(1): 224-238.
- Brand, C.** and Preston, J. (2003) Which technology for urban public transport? *Proceedings of the Institution of Civil Engineers – Transport*, 156(4): 201-210.
- Brand, C.**, Mattarelli, M., Moon, D. and Wolfler Calvo, R. (2002) STEEDS: Strategic Transport, Energy, Environment Decision Support. *European Journal of Operational Research*, 139(2): 416-435.

### Books

- Brand, C.** (2008) Personal Travel and Climate Change: Exploring climate change emissions from personal travel activity of individuals and households. VDM Verlag Dr Müller. pp. 400. ISBN: 978-3639025071.

### Book Chapters

- Eyre, N., Anable, J., **Brand, C.**, Layberry, R. and Strachan, N. (2011) The way we live from now on: lifestyle and energy consumption. Chapter 9 in J. Skea, P.Ekins and M.Winskel (eds) *Energy 2050: making the transition to a secure low carbon energy system*. 408pp, Routledge. ISBN: 978-18-497-1084-8.
- Mudu, P., Kahlmeier, S., Racioppi, F., **Brand, C.** and Goodwin, F. (forthcoming) Transport, energy and health. In, Menne, B., et al (ed.) *Energy and Health*. WHO Europe, Bonn.

### Refereed written conference papers

- Brand, C.**, Cluzel, C. and Anable, J. (2016) *Modeling the timing and scale of uptake of plug-in vehicles in a heterogeneous car market using a disaggregated consumer segmentation approach: the case of the United Kingdom*. Proceedings of the World Conference on Transport Research 2016, Shanghai, China, July 2016.

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- Killip, G., Eyre, N., **Brand, C.** and Patrick, J. (2015) *Making the local economic case for low carbon – an Oxfordshire case study*. Paper 3-253-15, Proceedings of the European Council for an Energy Efficient Economy (ECEEE) 2015 Summer Study, Toulon/Hyères, France, June 2015.
- Brand, C.**, Anable, J., Tran, M. (2013) *The role of fiscal car purchasing incentives in a future low carbon transport system*. Proceedings of the World Conference of Transportation Research 2013, Rio de Janeiro, Brazil, July 2013.
- Brand, C.**, Goodman, A., Rutter, H., Song, Y. and Oglivie, D. (2013) *Associations of personal and environmental characteristics with CO2 emissions from motorised travel*. Proceedings of the World Conference of Transportation Research 2013, Rio de Janeiro, Brazil, July 2013.
- Brand, C.**, Tran, M., Anable, J. (2011) *Low carbon car taxation and its potential to accelerate transitions to a low carbon transport sector in the UK*. Paper 329, Proceedings of the European Council for an Energy Efficient Economy (ECEEE) 2011 Summer Study, Toulon/Hyères, France, June 2011.
- Brand, C.** (2009) *“Hockey sticks” made of carbon: unequal distribution of greenhouse gas emissions from personal travel in the United Kingdom*. Paper 09-2729, Proceedings of the Transportation Research Board 88th Annual Meeting, January, Washington DC.
- Brand, C.** (2007). *Personal air and car travel – just don’t do it!* Paper 9-228, Proceedings of the European Council for an Energy Efficient Economy (ECEEE) 2007 Summer Study, Nice, France, June 2007.

### Non-refereed written conference papers

- Gerike, R., Götschi, T., Int Panis, L., de Nazelle, A., Nieuwenhuijsen, M. and **Brand, C.** (2015) *Active transport and physical activity – bridging the gap*. 14th International Conference on Travel Behaviour Research, Windsor, UK, July 2015.
- Morton, C., Anable, J., **Brand, C.** (2014) *Uncertainty in the Demand for Electric Vehicles: An analysis of its location and governmental response*. Paper presented at Universities’ Transport Study Group 46th Annual Conference, Newcastle, January 2014.
- Brand, C.**, Anable, J., Tran, M. (2009) *20% transport - how we may get there*. Royal Geographical Society - Annual International Conference, Manchester, UK, August 2009.
- Jablonski, S., Strachan, N., **Brand, C.**, Pantaleo, A. and Bauen, A. (2008) *A systematic assessment of bioenergy representation in the UK-MARKAL model: insights on the formulation of bioenergy scenarios*. Paper presented at the European Bioenergy Conference, Valencia, June 2008.
- Brand, C.** and Preston, J. (2004) *Tools for evaluating strategically integrated public transport*. Paper presented at Universities’ Transport Study Group 36th Annual Conference, Loughborough, January 2004. Also published as TSU Working Paper Ref. 965, University of Oxford.
- Brand, C. and Moon, D.P. (2000) *Integrated modelling and decision support for environmental transport policy and technology choices across Europe*. Proceedings of the European Transport Conference, Cambridge, UK, September 2000.

### Published Research Reports and Technical Papers

- Patrick, J., Killip, G., **Brand, C.**, Augustine, A. and Eyre, N. (2014) *Oxfordshire's Low Carbon Economy*. Environmental Change Institute and Low Carbon Oxford, Oxford.
- Brand, C.** (contributor) (2014) *UK Energy Strategies Under Uncertainty - Synthesis Report*. Ed. Watson, J., Gross, R., Ketsopoulou, I. and Winskel, M. UK Energy Research Centre, London. REF UKERC/RR/FG/2014/002.
- Preston, I., White, V., Thumim, J., Bridgeman, T. and **Brand, C.** (2013) *Distribution of carbon emissions in the UK: implications for domestic energy policy*. Joseph Rowntree Foundation, London, 135 pp.



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- Anable, J., **Brand, C.**, Eyre, N., Layberry, R., Bergman, N., Strachan, N., Fawcett, T. and Tran, M. (2011) *Energy 2050 - Energy Demand: Lifestyle and Energy Consumption*. UKERC Working paper UKERC/WP/ED/2011/001.
- Brand, C.** (2010) UK Transport Carbon Model: Reference Guide (v1.0). UK Energy Research Centre, Oxford. 131 pp. REF UKERC/WP/ED/2010/001.
- Brand, C.** (2010) UK Transport Carbon Model: User Guide (v1.0). UK Energy Research Centre, Oxford. 132pp. REF UKERC/WP/ED/2010/002.
- Jablonski, S., Strachan, N., **Brand, C.**, Pantaleo, A. and Bauen, A. (2008) *A Systematic Assessment of Bioenergy Representation in the UK Markal Model: Insights on the formulation of bioenergy scenarios*. TSU Working Paper Series, Ref. 1040.
- Brand, C.** (contributor) (2008) *Climate for a transport change. TERM 2007: indicators tracking transport and environment in the European Union*. European Environment Agency and Office for Official Publications of the European Communities. EEA Report No 1/2008.
- Brand, C.** (contributor) (2008) *Success stories within the road transport sector on reducing greenhouse gas emission and producing ancillary benefits*. European Environment Agency and Office for Official Publications of the European Communities. 70 pp. ISBN: 9789291671229. Technical report No 2/2008.
- Brand, C.** and Boardman, B. (2007) *Tesco Staff Carbon Profiles, Final Report*. Environmental Change Institute, Oxford for Tesco Stores Ltd.
- Brand, C.** (2006) *Integrated Travel Emissions Profiles: Case Study Report*. TSU Working Paper Series, Ref. 1017. Transport Studies Unit, University of Oxford.
- Brand, C.**, Preston, J.M. and Boardman, B. (2006) *Integrated travel emissions profiles: final research report to the ESRC*. Transport Studies Unit and Environmental Change Institute, University of Oxford.
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## Dr Christian Brand, *Curriculum Vitae*

- Brand, C.** et al. (2000) *Reducing congestion by introducing new concepts of transport (RECONNECT): policy and market synthesis*. European Commission, DG Transport and Energy, Brussels.
- Watkiss, P., **Brand, C.**, Hinds, N., Holl, M., Marx, C. and Stephenson, W. (2000) *Urban Energy-Use: Guidance on Reducing Environmental Impacts*. Final Report for the Department for International Development, London.
- Watkiss, P., **Brand, C.**, Hurley, F., Pilkington, A., Mindell, J., Joffe, M. and Anderson, R. (2000) *On the move: informing transport health impact assessment in London*. NHS Executive London and AEA Technology Environment.
- Moon, D.P. and **Brand, C.** (1999) *Strategic transport-energy-environment decision support (STEEDS), Final Report*. AEA Technology for the European Commission, DG Research.
- Brand, C.**, Davison, P. and Moon, D.P. (1997) A state-of-the-art survey and review of new transport technologies. Energy Technology Support Unit for the European Commission, DG Transport and Energy, Brussels.
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### Selected Invited Lectures and Presentations

- *Health co-benefits: evidence, methods and tools*. Presentation at WHO/Europe Expert Group meeting 'Health co-benefits of mitigation: evidence and methods for decision support', Bonn, Germany (15-16/12/15) (invited)
- *Future Transport Energy Demand*. Invited Lecture Series 2015, Department of Mechanical Engineering and Mathematical Sciences (MEMS), Oxford Brookes University (28/10/15) (invited)
- *Modelling car purchasing behaviour: a disaggregated consumer segmentation approach*. Presentation at International BE4 Workshop: Including Behaviour in 'E4' models, UCL Energy Institute, London (20-21/04/15) (invited)
- *Transport Energy Environment Systems Modelling*. Presentation at 'Oxford University R&D Proposal Meeting' with Korean Institute of Energy Research, Daejeon, South Korea (18-23/06/13) (invited)
- *Extending HEAT to carbon*. Presentation at WHO/Europe Expert Group meeting 'Health economic assessment tool (HEAT) for cycling and walking' Copenhagen, Denmark (19-20/12/12) (invited)
- Introducing the UK transport carbon model. Presentation at DECC/4CMR Expert Workshop 'Modelling the UK transport system for climate change policy analysis', London (18/03/09) (invited)
- *Transport Scenario Definition, Quantification and Modelling: UKERC Energy 2050: Moving towards a resilient, low carbon energy system*. Presentation at the Annual Energy Modelling Conference of the UKERC, Oxford (30-31/01/08)

### Popular Media, Public Engagement and Other Outputs

- Coverage in New York Times, The Guardian, International Herald, BBC News and technical press
- Media Interviews: BBC Oxford 'Drive Time' (Radio), BBC 'Money Programme' (Radio)
- Judging Panel, VentureFest Oxford 2014, Low Carbon Economy Award
- Short articles in: The Conversation, Local Transport Today, Outdoor Magazine

### Languages

German (mother), English (fluent), French (intermediate), Spanish (basic), Italian (basic)