

# Paul Wolfram

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## Professional experience

- Yale University, School of Forestry and Environmental Studies, Center for Industrial Ecology*      *New Haven, CT*  
Since 08/2016      PhD researcher and teaching fellow · Topic: Environmental life-cycle assessment scenarios of renewable electricity and power train electrification
- International Council on Clean Transportation (ICCT) gGmbH*      *Berlin, Germany*  
09/2015–07/2016      Research associate · Main tasks: Researching life-cycle emissions and costs of electric vehicles and specific components such as lithium-ion batteries and fuel cells  
Promoted from research intern (09/2015–02/2016) and research fellow (03/2016)
- Potsdam Institute for Climate Impact Research (PIK)*      *Potsdam, Germany*  
08–11/2015      Scientific assistant, Adaptive Networks of Socio-metabolic Flows group  
Tasks: Researching a method to calculate material footprints of renewable energy
- 09/2012–08/2014      Student assistant, Executive Department  
Main tasks: Organizational tasks and research assistance for the Director
- Bundesverband Verkehrsclub Deutschland (Federal Ecological Transport Assoc., VCD)*      *Berlin, Germany*  
09/2012      Promoter of the organization
- 02–08/2012      Intern · Main tasks: Co-author of a report on traffic safety, research for position papers
- State Ministry for Economy, Labor and Transportation*      *Dresden, Germany*  
04/2010      Intern · Main task: Research assistance on a draft environmental impact assessment (EIA) of the federal transport plan 2020

## Education

- Berlin Institute of Technology*      *Berlin, Germany*  
10/2012–05/2015      M.Sc. Environmental Planning  
Thesis: “Carbon Footprint Scenarios of Renewable Electricity in Australia”
- European Institute of Innovation and Technology (EIT)*      *ES, HU, NL*  
04/2013–05/2015      Climate-Knowledge and Innovation Community (KIC) Master Label (supplementary diploma on climate change and innovation)
- University of New South Wales (UNSW), School of Civil and Environmental Engineering*      *Sydney, Australia*  
10/2014–02/2015      Research exchange Master’s student within the Sustainability Assessment Program (SAP)
- Technical University Dresden*      *Dresden, Germany*  
10/2007–09/2010      B.Sc. Transportation Economics  
Thesis: “Spatial, Ecological and Economic Effects of Low Emission Zones in German Cities”
- Julius-Ambrosius-Hülße-Gymnasium*      *Dresden, Germany*  
08/1997–06/2005      Abitur (High school diploma)

## Peer-reviewed publications

- 08/2017      **Wolfram, P.**, T. Wiedmann. [Electrifying Australian Transport: Hybrid life cycle analysis of a transition to electric light-duty vehicles and renewable electricity](#). Applied Energy, 206, 531-540 (IF: 5.746)
- 02/2016      **Wolfram, P.**, T. Wiedmann, M. Diesendorf. [Carbon Footprint Scenarios of Renewable Electricity in Australia](#). Journal of Cleaner Production, 124, 236-245 (IF: 4.959)

## Books

10/2015 **Wolfram, P.** [Carbon Footprint Scenarios of Renewable Electricity: A greenhouse gas emission assessment for Australia](#). AV Akademikerverlag, Saarbrücken

## Book chapters

8/2017 **Wolfram, P.**, T. Wiedmann. Potentials to decarbonize electricity consumption in Australia. In: Ó. Dejuán, M. Lenzen, M.Á. Cadarso (eds.) "[Environmental and economic impacts of decarbonization. Input-output studies on the consequences of the 2015 Paris agreements](#)". Routledge Publishing

## Working papers, reports and others

10/2016 **Wolfram, P.**, J. German, U. Tietge, P. Mock. [Deployment of Passenger Car Technology in Europe and the United States](#). Working Paper, International Council on Clean Transportation (ICCT)

07/2016 **Wolfram, P.**, N. Lutsey. [Electric Vehicles: Literature review of technology costs and carbon emissions](#). Working Paper, International Council on Clean Transportation (ICCT).

12/2013 Hänel, A., C. Rostock, B. Sluka, **P. Wolfram**, A. Ahrens. [VCD Tempo 30 Soforthilfe-Papier](#). VCD Bundesverband Berlin

06/2012 Hänel, A., C. Rostock, **P. Wolfram**, J. Schneider. [VCD Städtecheck 2012: Verkehrssicherheit Kinder und Jugendliche](#). VCD Bundesverband Berlin

## Presentations at conferences and workshops

10/2017 **Wolfram, P.**, T.R. Miller, P. Berrill, Y. Kim, R. Wang, X. Zheng, E. Hertwich. Capturing capital consumption in IO-LCA: The case of US light-duty vehicles;

**Wolfram, P.**, E. Hertwich. Life Cycle Assessment of Prospective Electricity Systems. ACLCA XVII Conference, Portsmouth, NH, USA.

06/2017 **Wolfram, P.**, T. Wiedmann. Electrifying Australian Transport: Carbon footprint of a transition to electric vehicles and renewable electricity. ISIE/ISSST Joint Conference, Chicago, IL, USA.

04/2017 **Wolfram, P.** Electric vehicles in Australia: Are they really better for the climate? 33<sup>rd</sup> F&ES Research Conference, Yale University, New Haven, CT, USA.

11/2015 **Wolfram, P.** Electric Vehicles: Review of technology cost and carbon emissions. Presentation for the China Automotive Technology and Research Center (CATARC) at ICCT, Berlin, Germany.

07/2015 **Wolfram, P.**, T. Wiedmann. Carbon Footprint Scenarios of Renewable Electricity Generation in Australia. ISIE Conference, Surrey, UK.

06/2015 **Wiedmann, T.**, **P. Wolfram**. Carbon Footprint Scenarios of Renewable Electricity Generation in Australia. 1<sup>st</sup> Industrial Ecology Virtual Laboratory Conference, Sydney, Australia.

12/2013 **Wolfram, P.**, **T. Brocic**. The Use of Bayesian Networks in INNOVATE. INNOVATE Workshop on Water Quality, Berlin Institute of Technology, Germany.

07/2012 **Hänel, A.**, **P. Wolfram**. Nachhaltige Mobilität (Sustainable Mobility). „Klima Camp“ by Evangelische Akademie Loccum, Hannover, Germany.

## Scholarships

04/2017	Student Chapter scholarship to the 2017 ISIE-ISSST Conference	1,127 USD
03/2017	Doctoral Student Travel Fund, Yale Forestry & Environmental Studies	500 USD
12/2016	Doctoral Dissertation Improvement Grant, Yale Institute of Biospheric Studies	4,950 USD
Since 08/2016	Dissertation Scholarship, Yale School of Forestry & Environmental Studies	350,000 USD
10/2014–02/2015	PROMOS, German Academic Exchange Service (DAAD)	1,500 Eur

**Teaching assistance**

Fall 2017	Carbon Footprints – Modeling and Analysis (ENVE 442 01), Instructor: Prof. Dr. Edgar Hertwich, School of Environmental Engineering, Yale University
Spring 2017	Life Cycle Assessment Practicum (F&ES 950b), Instructor: Thomas Swarr, School of Forestry and Environmental Studies, Yale University

**Volunteering and memberships**

Since 03/2017	Member, International Society of Industrial Ecology
04/2014–05/2017	Fellow, Climate CoLab, Massachusetts Institute for Technology (MIT) Task: Evaluation of transport-related climate change mitigation and adaption solutions Promoted from Catalyst (04/2014–04/2016)
08/2012–07/2013	Member, Verkehrsclub Deutschland (Ecological Transport Association, VCD)

**Further qualifications**

Languages	<i>Mother tongue:</i> German · <i>Proficient:</i> English, CEFR C1 · <i>Intermediate:</i> French, CEFR B1/B2
IT	<i>Advanced:</i> LaTeX, Excel, Word, PowerPoint · <i>Basic:</i> Matlab, R, Access, GaBi, SimaPro, Inkscape, ArcGIS

**Review**

Sustainability (1) · Research in Transportation Economics (1) · Science of the Total Environment (1) · International Council on Clean Transportation (4) · Ecological Transport Assoc., VCD (1) · Center for European Policy Studies (1) (see <http://www.reviewerpage.com/Paul-Wolfram>; <http://publons.com/a/1247603/>)

**References**

Dr. Edgar Hertwich	Yale University · Director Center for Industrial Ecology, Prof. +1 203 432 5475 · <a href="mailto:edgar.hertwich@yale.edu">edgar.hertwich@yale.edu</a>
Dr. Peter Mock	International Council on Clean Transportation · Europe Managing Director / EU Lead +49 30 847 129 102 · <a href="mailto:peter@theicct.org">peter@theicct.org</a>
Dr. Thomas Wiedmann	University of New South Wales · A./Prof. School of Civil and Environmental Engineering +61 2 9385 0142 · <a href="mailto:t.wiedmann@unsw.edu.au">t.wiedmann@unsw.edu.au</a>



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6 October, 2017