

# DR. CHRISTOPH BERTRAM

I am a senior researcher with superb experience in integrated assessment modeling, broad knowledge of climate economics and country specificities in the developing regions that are crucial for feasibility of ambitious global climate targets. My passion is to drive sustainable mitigation options via solution- and policy-oriented research, and improving science via trans-disciplinarity, so involving methods and insights from different disciplines and practitioners from various sectors.

## PROFESSIONAL EXPERIENCE

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Since 03/2019	Potsdam Institute for Climate Impact Research (PIK), Potsdam, Germany <i>Team Lead International Climate Policy</i>
06/2012 – 08/2012	International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria <i>Research fellow in the Young Scientists Summer Program (YSSP)</i>
Since 04/2011	Potsdam Institute for Climate Impact Research (PIK), Potsdam, Germany <i>Member of the Energy Systems group</i>
05/2010 – 03/2011	Potsdam Institute for Climate Impact Research (PIK), Potsdam, Germany <i>Research analyst for Professors Rahmstorf and Schellnhuber at the German Advisory Council on Global Change (WBGU)</i>
11/2009 – 03/2010	Heinrich Böll Foundation, Washington DC, USA <i>Intern with the climate &amp; energy program</i>

## SELECTED PROJECT PARTICIPATION AND RESPONSIBILITIES

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2020 - 2022	NGFS climate scenarios ( <a href="https://www.ngfs.net/ngfs-scenarios-portal/">https://www.ngfs.net/ngfs-scenarios-portal/</a> ), funded by ClimateWorks and Bloomberg Philanthropies <i>Lead of work package on transition scenario modeling, consortium coordination</i>
2019 - 2023	ENGAGE ( <a href="http://www.engage-climate.org/">http://www.engage-climate.org/</a> ), funded by EU H2020 <i>Lead of work package 3 “Global pathways reflecting the Paris Agreement”</i>
2018 – 2020	SENSES ( <a href="https://climatescenarios.org/toolkit/">https://climatescenarios.org/toolkit/</a> ), funded by JPI-Climate <i>Domain expert for finance and policy</i>
2018 – 2020	UNEP-FI banking pilot I + II ( <a href="https://www.unepfi.org/publications/banking-publications/extending-our-horizons/">https://www.unepfi.org/publications/banking-publications/extending-our-horizons/</a> ), funded by UNEP-FI <i>Scenario data provision and stakeholder interaction</i>
2015 – 2019	CD-LINKS ( <a href="https://www.cd-links.org/">https://www.cd-links.org/</a> ), funded by EU H2020 <i>Lead of task “Assessing carbon lock-ins” within WP5, and coordinating REMIND-MAgPIE modeling for WP3 and 5</i>

## PUBLICATIONS (peer-reviewed)

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Summary statistics: co-authored 39 peer-reviewed papers with a total of over 3300 citations, h-index 25 ([Scholar profile](#))

### SELECTED PAPERS:

Bertram C, Riahi K, Hilaire J, Bosetti V, et al (2021): *Energy system developments and investments in the decisive decade for Paris Agreement targets*, [Environmental Research Letters](#).

Duan H, Zhou S, Jiang K, Bertram C, et al (2021): *Assessing China's efforts to pursue the 1.5°C warming limit*, [Science](#).

Bertram C, Luderer G, Creutzig F, Bauer N, et al (2021): *COVID-19-induced low power demand and market forces starkly reduce CO<sub>2</sub> emissions*, [Nature Climate Change](#).

Malik A, Bertram C, Kriegler E, Luderer G (2021): *Climate policy accelerates structural changes in energy employment*, [Energy Policy](#).

Bauer N, Bertram C, Luderer G, Schultes A, et al (2020): *Quantification of an efficiency–sovereignty trade-off in climate policy*, [Nature](#).

Roelfsema M, van Soest HL, Harmsen M, van Vuuren DP, Bertram C, et al (2020): *Taking stock of national climate policies to evaluate implementation of the Paris Agreement*, [Nature Communications](#).

Malik A, Bertram C, Després J, Emmerling J et al (2020): *Reducing stranded assets through early action in the Indian power sector*, [Environmental Research Letters](#).

McCollum DL, Zhou W, Bertram C, de Boer HS et al (2018): *Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals*. [Nature Energy](#).

Jewell J, McCollum D, Emmerling J, Bertram C, et al (2018): *Limited emission reductions from fuel subsidy removal except in exporting regions*. [Nature](#).

Bertram C, Luderer G, Pietzcker R, Schmid E, Kriegler E, and Edenhofer O (2015): *Complementing carbon prices with technology policies to keep climate targets within reach*, [Nature Climate Change](#).

Luderer G, Pietzcker R, Bertram C, Kriegler E, et al (2013): *Economic mitigation challenges: how further delay closes the door for achieving climate targets*, [Environmental Research Letters](#).

## REVIEWING

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Reviewer for Environmental Research Letters (Outstanding reviewer 2018 and 2019), Nature, Science, Nature Climate Change, Nature Energy, Science Advances, Nature Communications, One Earth, Energy Economics, Energy Policy, Climate Policy, Climatic Change, Energies, Renewable and Sustainable Energy Transition, International Environmental Agreements: Politics, Law and Economics, Sustainability Science, Climate Change Economics, Environmental Modelling and Software

## SELECTED TALKS AND PRESENTATIONS

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11/2021	Climate congress, parliament of North-Rhine Westphalia: keynote and panel discussion
11/2019	UNEP-FI regional roundtable, Luxembourg: invited talk and panel discussion
11/2018	IAMC meeting #11, Seville, Spain: talk and panel discussion in plenary session “The role of the financial sector in decarbonization”
01/2018	Chinese Energy Modeling Forum (CEMF), Beijing, China: invited talk “The impact of short-term mitigation policies on broader sustainability impacts”
12/2015	IAMC meeting #8, Potsdam, Germany: talk in introductory plenary session “Implications of the INDCs for reaching long term climate policy objectives”

## EDUCATION

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04/2011 – 01/2015	Technical University Berlin, Germany PhD thesis: “The effect of near-term climate policies on the achievability of ambitious long-term climate targets” (“Dr. rer. oec.”, PhD in economics), supervised by O Edenhofer, G Luderer, and E Kriegler
10/2003 – 10/2009	Universität Tübingen, Germany Advanced degrees in physics (“Dipl.-Phys.”, Masters equivalent) and Political Science (“Staatsexamen”, Masters equivalent with Minor in Spanish)
08/2006 - 04/2007	Universidad Nacional de Córdoba, Argentina Study program funded by scholarship of Landesstiftung Baden-Württemberg

## SUPERVISION

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Aman Malik	Day-to-day supervisor for PhD (2017-2021, thesis handed in 11/2021)
Sebastian Franz	Day-to-day supervisor for Master thesis

## ACADEMIC FUNCTIONS & MEMBERSHIPS

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IPCC	Contributing Author for Chapters 3 and 15, AR6 WG3
IAEE	Member
SBTi	Member of the Scientific Advisory Group

## SKILLS

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Languages	German (native), English (fluent), Spanish (fluent), French (intermediate)
Computer	GAMS, R, MS Office, Matlab, LaTeX, Inkscape

Updated 01/2022

Full list of publications, projects and media appearances available on: <https://www.pik-potsdam.de/members/bertram>