

Curriculum Vitae

DR. CHRISTIAN BINZ

CIRCLE - Centre for Innovation, Research and Competence in the Learning Economy
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EDUCATION

- Mar 2009 – Nov 2012 **Eawag: Swiss Federal Institute of Aquatic Science and Technology, University of Bern and Chinese Academy of Sciences**
- Ph.D. in Geography (summa cum laude)
Title of the Ph.D. thesis: Environmental innovation and industry formation in multiscalar space - The emergence of on-site wastewater treatment in China
- Oct 2003 – Dec 2008 **University of Bern, Geographic Institute**
- M.Sc. in Geography
Minors: Economics, Philosophy and Chinese
Master thesis: Leapfrogging in urban water management – the development perspectives of decentralized wastewater treatment in China (with honors).

EXPERIENCE

- Since Jul 2015 **CIRCLE – Lund University**
- Post-Doctoral Research Fellow at the Center for Innovation, Research and Competence in the Learning Economy. Conducting an early Postdoc.Mobility project funded by the Swiss NSF. Title: Globalization of cleantech industries - Reconstructing China's integration into the global innovation networks of wind power and solar photovoltaics
- Sept 2014 – Jul 2015 **Harvard Kennedy School of Government**
- Giorgio Ruffolo Post-Doctoral Research Fellow in the Sustainability Science Program and the Energy Technology Innovation Policy Project
Analysing technology leapfrogging in China's solar PV and wind power sectors
- Dec 2014 – Feb 2015 **Qinghua University**
- Visiting Research Fellow at the School of Public Policy and Management
Interview campaign with senior experts in China's solar PV sector
- Sept 2013 – Dec 2013 **UC Berkeley**
- Visiting Scholar at the UC Berkeley Water Center and ReNUWit, the NSF Engineering Research Center for Re-Inventing Urban Water Infrastructure
Interview campaign with key stakeholders in California's water reuse sector
- Feb 2013 – Jul 2014 **Eawag: Swiss Federal Institute of Aquatic Science and Technology**
- Post-Doc at the Department for Environmental Social Sciences (ESS)
Project on the legitimation of direct potable water reuse in California
- Apr 2006 – Feb 2009 **University of Bern, Geographic Institute**
- Junior research assistant at the research group for economic geography and regional sciences. Organizing and correcting undergraduate level exams, assistant in teaching and research activities, web administrator

TEACHING EXPERIENCE

- Feb 2013 – July 2013 **University of Bern, Geographic Institute**
- Masters Seminar: Eco-Innovation in Economic Geography
Main lecturer
- Feb 2010 – Jul 2014 **University of Bern, Geographic Institute**
- Masters course: Innovation systems in space and time
Teaching assistant

AWARDS & SCHOLARSHIPS (Total received: CHF 147'000)

- Mar 2015 **Harvard University, Sustainability Science Program (SSP)**
- Grant for collaborative Research among SSP Fellows (5'400 US\$, 1 year)
Project title: Spatial Dynamics in the Knowledge Base of Emerging Clean-Tech Sectors
- Aug 2014 **International Conference on Sustainability Transitions (IST)**
- Nominated for the best paper award (3 out of 150 papers nominated)
- May 2014 **Swiss National Science Foundation**
- Early Post Doc.Mobility Scholarship (85'000 CHF, 1.5 years)
Project title: Globalization of cleantech industries – Reconstructing China's integration into the global innovation networks of wind power and solar photovoltaics
- Apr 2014 **Harvard University**
- Girorgio Ruffolo Post-Doc Fellowship in Sustainability Science (55'000 \$, 1 year)
Project title: Low-carbon leapfrogging in China - an international innovation system perspective
- Mar 2009 **Final MBR workshop, Berlin**
- Best Ph.D. student poster (EUR 1'000)
- Dec 2008 **University of Bern**
- Best master thesis of the Faculty of Geosciences (CHF 1'000)

INVITED LECTURES

- Apr 2015 Invited Panelist, American Association of Geographers annual meeting. "Forging Green Path Creation: EEG, GPNs and Sustainability Transitions." Chicago, IL.
- Apr 2015 Invited Speaker, Harvard Kennedy School Energy Policy Seminar Series. "Low-carbon leapfrogging and globalization: How China developed its solar PV industry"
- Apr 2015 Invited Panelist, Tufts Sino-US Relations Group Engagement (SURGE), China – US Symposium. Tufts University, Cambridge MA.
- Dec 2014 Invited Speaker, Qinghua University, School of Public Policy and Management, Innovation Policy Seminar Series. "Low-carbon leapfrogging in China - a global innovation system perspective"
- Sept 2013 Invited Speaker, UC Berkeley, Environmental Engineering Seminar Series. "Reinventing the Urban Water Sector? A socio-technical systems perspective"

REVIEWER

- Since 2015 Science and Public Policy, Total Quality Management & Business Excellence, Journal of Cleaner Production
- Since 2013 Research Policy, Technological Forecasting & Social Change, Energy Policy, IST conferences
- Since 2012 Environmental Innovation and Societal Transitions, Environment and Planning A, Technology Analysis & Strategic Management, GLOBELICS conferences

LEADERSHIP AND SERVICE

- Jan – Jun 2013 **4th International Conference on Sustainability Transitions**
 - Co-head of the organizing committee
- Since Nov 2005 **Winter Swimming Club Bern**
 - Founder, president and head of the PR division

LANGUAGES

German	Mother Tongue
English	Full professional proficiency
Chinese	Professional working proficiency (passed new HSK level 4)
Italian	Professional working proficiency
French	Limited working proficiency

INTERNATIONAL NETWORKS

- Member: Sustainability Transitions Research Network (STRN), International Water Association (IWA), Association of American Geographers (AAG), Beijing Energy Network (BEN)
- Conferences (presentations & posters): DRUID 2010, International Conference on Sustainability Transitions (3x), International conference on Sustainability Science 2010, GLOBELICS (3x), Association of American Geographers (3x), DIME workshops (2x), Annual Water Reuse & Desalination Research Conference 2014

REFERENCES

Prof. Dr. Bernhard Truffer
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PUBLICATIONS

Binz, Christian; Tang Tian (in preparation). Path Transplantation in Global Innovation Networks: The Emergence of the Chinese Solar PV Industry. *To be submitted to Energy Policy*.

Binz, Christian; Diaz Anadon, Laura (in preparation). Path Transplantation in Global Innovation Networks: The Emergence of the Chinese Solar PV Industry. *To be submitted to Global Environmental Change*

Binz, Christian; Diaz Anadon, Laura (in preparation). Import Substitution Or Global Interaction? A Comparison of China's Innovation Strategies in Solar PV and Wind Power. *To be submitted to Environmental Innovation and Societal Transitions*.

Kiparsky, M., C. Binz, B. Thompson, B. Truffer, D. Sedlak, A. Simmons, and L. Tummers (submitted). Barriers to Innovation in Urban Water Utilities: Attitudes of California Wastewater Managers. *Under review at Urban Water Journal*.

Binz, Christian; Truffer, Bernhard; Coenen, Lars (in revision): Systemic anchoring of global innovation processes and new industry formation – the emergence of on-site water recycling in China. *CIRCLE electronic working paper 2013/8, submitted to Economic Geography*.

Binz, Christian, David Sedlak, Sasha Harris-Lovett, Michael Kiparsky, and Bernhard Truffer (accepted). Legitimizing System Innovation – how Support for Potable Water Reuse was Constructed in California. *Under review at Technological Forecasting & Social Change*.

Binz, Christian and Bernhard Truffer (in print). Cities as Mediators between Local Niches and Global Networks, the Transition to Onsite Water Recycling in Three Chinese Cities. In: *Urban Sustainability Transitions*, edited by Frantzeskaki, Niki, Lars Coenen, Vanessa Castan Broto and Derk Loorbach. London: Routledge

Harris-Lovett, Sasha, Christian Binz, David Sedlak, Michael Kiparsky, and Bernhard Truffer (2015). Beyond User Acceptance: A Legitimacy Framework for Potable. *Environmental Science & Technology*, 49, 7552-7561.

Binz, Christian; Truffer, Bernhard; Coenen, Lars (2014): Why space matters in technological innovation systems – Mapping global knowledge dynamics of membrane bioreactor technology. *Research Policy* 43, 138-155.

UNEP (2013): City-level decoupling: Urban resource flows and governance of infrastructure transitions. A report of the working Group on Cities of the International Resource Panel. Eds: Swilling M., Robinson B., Marvin S., Hodson M. (contributing author).

Li, Li; Binz, Christian; Lu, Yonglong; Truffer, Bernhard; Shi, Yajuan (2013): Institutional trajectory for diffusing on-site wastewater treatment in urban China. *Water Science and Technology* 68 (5), 1180-1187.

Binz, Christian; Truffer, Bernhard; Li, Li; Shi, Yajuan; Lu, Yonglong (2012): Conceptualizing leapfrogging with spatially coupled innovation systems: The case of onsite wastewater treatment in China. *Technological Forecasting and Social Change* 79 (1), 155-171.

Truffer, Bernhard; Binz, Christian; Gebauer Heiko; Stoermer, Eckhard (2012): Market success of on-site treatment: a systemic innovation problem. In Larsen, T.A. Udert, K.M., Lienert, J. (eds.) *Wastewater Treatment: Source Separation and Decentralisation*. IWA Publishing 2012 pp. 209 – 223.

Binz, Christian and Truffer, Bernhard (2012): Technological innovation systems in multi-scalar space - Analyzing an emerging water recycling industry with social network analysis. *Geographica Helvetica* 66 (4): 254-260.

Gebauer, Heiko; Truffer, Bernhard; Stoermer, Eckhard; Binz, Christian (2012): Capability perspective on business network formation: Empirical evidences from wastewater treatment industry. *European Business Review*, 24 (2), 169–190.