## HUMBOLDT-UNIVERSITÄT ZU BERLIN FACULTY OF LIFE SCIENCES



Albrecht Daniel Thaer-Institute | Resource Economics Group | Prof. Dr. Klaus Eisenack

26.04.2023

## **Master thesis - Current list of topics**

Taula	Tial	Dat Comamican	Deleted tenies
Topic	Title:	Pot. Supervisor:	Related topics
W.01	Wasserkonflikte in Berlin/Brandenburg	Eisenack / Roggero	(builds on / in parallel):
	(Nur Bachelor-Thesis)		
□ open	Description:		
	Identifikation der aktuellen Wasserkonflikten a	nhand einer Analyse de	er Tagespresse.
stored			
closed			
	References:		
	https://www.cliwac.de/		
	Prerequisites (methods / theories / content):		
	Umwelt- und Ressourcenökonomik		
	Advantageous / to learn (methods / theories / content):		
	Zugang zur Region, Qualitative Inhaltsanalyse		
Topic	Title:	Pot. Supervisor:	Related tonics

Topic	Title:	Pot. Supervisor:	Related topics
W.02	The Governance of Flash Floods in Berlin	Eisenack / Roggero	(builds on / in parallel):
□ open	Description:		
	Conduct a mapping of all relevant stakeholders involved in the prevention of climate-		
stored	change related flash floods in Berlin. Identify	key action situations and	d the social dilemmas
	characterizing them.		
closed			
	References:		
	https://www.cliwac.de/		
	Bisaro, A., & Hinkel, J. (2016). Governance of	social dilemmas in clima	te change adaptation.
	Nature Climate Change, 6, 354–359.		
	Hinkel, J., & Bisaro, A. (2016). Methodologica	al choices in solution-orie	nted adaptation
	research: A diagnostic framework. Regional Environmental Change, 16, 7–20. Roggero, M., Bisaro, A., & Villamayor-Tomas, S. (2017). Institutions in the climate adaptation literature: A systematic literature review through the lens of the Institutional		
	Analysis and Development framework. Jou	rnal of Institutional Econ	omics, 14(3), 423-448.
	https://doi.org/10.1017/S1744137417000376		
	Prerequisites (methods / theories / content):		
	IAD		
	Advantageous / to learn (methods / theories / content):		
	Qualitative social research skills, institutiona	l analysis, good command	d of German (analysis
	of policy documents and interviews with dec	ision-makers).	

Topic	Title:	Pot. Supervisor:	Related topics
W.03	NN	Hirschfeld	(builds on / in parallel):
☐ open	Description:		
stored			
closed			
	References:		
	https://www.cliwac.de/		
	Prerequisites (methods / theories / content):		
	Advantageous / to learn (methods / theories / content):		

Topic	Title:	Pot. Supervisor:	Related topics
P.02	City climate games	Eisenack	(builds on / in parallel):
☐ open	Description:		
	Develop a game theoretic model that sheds light on urban climate action and global climate		
stored	cooperation among cities.		
closed			
	References:		
	Andonova, Liliana B., Thomas N. Hale, and Chai	les B. Roger (2017) Na	tional Policy and
	Transnational Governance of Climate Change: Substitutes or Complements?, International		
	Studies Quarterly 61 (2): 253–68.		
	Hagen, A., L. Kähler and K. Eisenack (2017) Transnational Environmental Agreements with		
	Heterogeneous Actors, In S. Çağatay (ed.) Economics of International Environmental		
	Agreements: a Critical Approach, Routledge. (see		
	https://www.econstor.eu/bitstream/10419/148222/1/846907933.pdf)		
	Different earlier master theses on similar topics.		
	Prerequisites (methods / theories / content):		
	Game theory, environment and resource econd	omics	
	Advantageous / to learn (methods / theories / content):		
	Urban geography, economy, or related		

Topic	Title:	Pot. Supervisor:	Related topics
P.07	Case study of urban climate action in the city	Eisenack	(builds on / in parallel):
	of xxx		multiple P.07
□ open	Description:		
	Chose a city and conduct a case study of its climate policy. It might be a very active city, or a		
stored	quite important but inactive city. The study ide	ally traces the urban cli	imate action over
	several years.		
closed	,		
0.000	References:		
	Andonova, Liliana B., Thomas N. Hale, and Charles B. Roger (2017) National Policy and		
	Transnational Governance of Climate Change: Substitutes or Complements?, International		
	Studies Quarterly 61 (2): 253–68.		
	Reckien, Diana, Monica Salvia, Oliver Heidrich, Jon Marco Church, Filomena Pietrapertosa,		
	Sonia De Gregorio-Hurtado, Valentina D'Alonzo, et al. 2018. "How Are Cities Planning to		
	Respond to Climate Change? Assessment of Local Climate Plans from 885 Cities in the EU-		
	28." Journal of Cleaner Production 191: 207–19.		
	28. Journal of Cleaner Froduction 191, 207–19.		
	Prerequisites (methods / theories / content):		
	Empirical social science, field access to selected city		
	Advantageous / to learn (methods / theories / content):	,	
	Case study methods, process tracing		

Topic	Title:	Pot. Supervisor:	Related topics
P.09	XYZ as a driver of sub-national climate action	Eisenack	(builds on / in parallel):
			P.07, multiple P.09
□ open	Description:		
	Choose one potential set of drivers (XYZ), e.g. of	out of the following, and	d analyze whether it
stored	can explain urban climate action:		
	<ul> <li>Co-benefits</li> </ul>		
closed	<ul> <li>Vulnerability</li> </ul>		
	<ul> <li>Political economy incentives</li> </ul>		
	<ul> <li>National policies</li> </ul>		
	Learning in transnational networks		
	The driver can be studied with one out of several possible approaches: single case study,		
	comparative case study, data analysis with inferential statistics or machine learning or QCA,		
	References:		
	Andonova, Liliana B., Thomas N. Hale, and Charles B. Roger (2017) National Policy and		
	Transnational Governance of Climate Change	: Substitutes or Comple	ements?, International
	Studies Quarterly 61 (2): 253–68.		
	Prerequisites (methods / theories / content):		
	Environmental and resource economics		
	Advantageous / to learn (methods / theories / content):		
	Appropriate methods (see Description).		

Topic	Title:	Pot. Supervisor:	Related topics
PE.02	Barriers in local environmental policies	Hagen / Eisenack	(builds on / in parallel):
☐ open	Description:		
stored	Many decisions on environmental policies or pe		
	on the local level (depending on the country, e	.g. waste charges, deve	lopment approval,
closed	public transport). Sometimes, such decisions a	re hampered by local po	olitical conflicts or
	rent-seeking.		
	The thesis selects on such decisions and explores how the theory of contests can capture		
	the related conflicts. The thesis could also select data on a selected policy decisions		
	(possibly in a selected geographical area) to estimate an econometric model that explains		
	conflict dimensions or their outcomes.		
	References:		
	Graichen, P. R., Requate, T., & Dijkstra, B. R. (2001). How to win the political contest: A		
	monopolist vs. environmentalists. <i>Public Choice</i> , 108(3), 273-293.		
	Prerequisites (methods / theories / content):	. , , , ,	
	Game theory, environmental and resource economics		
	Advantageous / to learn (methods / theories / content):		
	Inferential statistics / econometrics		

Topic	Title:	Pot. Supervisor:	Related topics		
PE.03	Unterleuten	Eisenack	(builds on / in parallel):		
	Description				
□ open		Description: Worldwide, there are increasingly land-use conflicts about agricultural land which might be			
stored	converted into solar farms (large scale PV power plants). This is also the case in				
	Brandenburg. Such conflicts between farmers,				
closed	residents can play out on the local level, but als		•		
		J			
	The thesis would collect data on operating and	planned solar farms in	Brandenburg, as well		
	as the associated conflicts. The data will be ana	lysed to identify comm	on patterns of such		
	conflicts, and leverage points for dealing with those conflicts.				
	References:	L = (2000) D . II :	1,1,0,1		
	Dunnett, S., Holland, R. A., Taylor, G. & Eigenbr				
	Energy Expansion has Minimal Overlap with Multiple Conservation Priorities across Global Regions. PNAS 119 (6).  Farja, Y., & Maciejczak, M. (2021). Economic Implications of Agricultural Land Conversion to Solar Power Production. Energies, 14(19), 6063.				
	Zeh, Juli. 2016. Unterleuten. München: Luchter				
	Roddis, P., Roelich, K., Tran, K., Carver, S., Dallii	_	)). What shapes		
	community acceptance of large-scale solar farms? A case study of the UK's first 'nationally significant' solar farm. Solar Energy, 209.				
	Prerequisites (methods / theories / content):				
	Environmental and resource economics, quality	ative data analysis or in	ferential statistics		
	Advantageous / to learn (methods / theories / content):				
	Game theory, access to Brandenburg, background knowledge on agriculture / PV.				

Topic	Title:	Pot. Supervisor:	Related topics	
KC.03	Participatory Game Design and	Eisenack	(builds on / in parallel):	
	Transdiciplinary Method		W.01, W.02, KC.02	
□ x	Description:			
open	Develop, test and evaluate a workshop protoco	ol for participatory gam	e design on local	
	sustainability issues.			
stored	Participatory game design is a novel approach t	o transdisciplinary rese	earch where	
	stakeholders and scientists co-develop simple k	ooardgame.		
closed				
	References:			
	Eisenack, Klaus (2013): A Climate Change Board	l Game for Interdiscipli	nary Communication	
	and Education. In: Simulation & Gaming, 44 (2	2-3), 328–348.		
	Eisenack, Klaus, and Anja Wirsing. 2019. "Spiele	end in die Utopie." In		
	Möglichkeitswissenschaften. Ökonomie mit Möglichkeitssinn, edited by Lars Hochmann,			
	Silja Graupe, Thomas Korbun, Stephan Panther, and Uwe Schneidewind, 617–37.			
	Marburg: Metropolis Verlag.			
	Lankford, Bruce A., and Joanne Craven. 2020. "	Rapid Games Designing	; Constructing a	
	Dynamic Metaphor to Explore Complex Syste	ms and Abstract Conce	pts." Sustainability 12	
	(17): 7200.			
	Prerequisites (methods / theories / content):			
	Facilitation skills; experience with board games; knowledge of environmental/resource			
	problems; knowledge on transdisciplinarity			
	Advantageous / to learn (methods / theories / content):			
	Institutional Analysis and Development Framev	vork		

Topic	Title:	Pot. Supervisor:	Related topics
A.09	Urban Climate Action and National Policies	Roggero	(builds on / in parallel):
			A. 08, A.10
□ open	Description:		
	Cities have taken the lead in the fight against climate change. National governments,		
stored	instead, have long lagged behind and are argu	ably moving towards po	licies potentially
	hampering urban climate action. How exposed	l are urban climate strat	tegies to
closed	counterproductive and/or poorly coordinated	national policies?	
	References:		
	Hughes, S., Chu, E. K., & Mason, S. G. (Eds.). (2017). Climate change in cities: Innovations in multi-level governance. Springer.		
	O'Neill, B. C., Kriegler, E., Ebi, K. L., Kemp-Benedict, E., Riahi, K., Rothman, D. S., & Levy,		
	M. (2017). The roads ahead: narratives for shared socioeconomic pathways describing		
	world futures in the 21st century. Global Environmental Change, 42, 169-180.		
	Prerequisites (methods / theories / content):		
	Institutional analysis.		
	Advantageous / to learn (methods / theories / content):		
	Basics of climate policy.		
	Basics of social research methods (interviews, case-studies).		