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Climate Change and Public Health - Regime Types, Perception Patterns and Policy Responses in International Comparison“

Research Project by Dr. Maximilian Jungmann, Heidelberg University

Executive Summary

In his doctoral thesis, Maximilian Jungmann analyzes how states adapt to climate change-related health risks. He compares the performance of more than 190 states with regards to their adaptation initiatives and seeks to understand the driving forces behind varying risk perceptions and different levels of adaptation. Based on previous academic articles that compare the adaptation initiatives of states, such as Lesnikowski et al. (2013) and Austin et al. (2016), the author has developed a refined analytical framework to examine how states adapt to climate change-related health risks and created a global index, the Climate Change Health Adaptation Index (CHAI_n). To understand the underlying factors that influence states' actions, a correlation analysis, taking into account political and socioeconomic factors, has led to first insights that will further be tested in five case studies (Republic of Korea, Japan, Ireland, UK, Sri Lanka). The case studies follow two objectives: 1) they provide insights into the different factors that influence perceptions and actions of states on climate change-related health risks, and 2) they are designed to show whether the CHAI_n data is valid and the developed analytical framework is reliable or whether it needs to be further modified. Following the mixed methods design of the doctoral thesis, the drivers and barriers of health adaptation that will be identified in the case studies will again be tested quantitatively. The results of the study will be published as a monograph in 2019. Various papers on adaptation to climate change-related health risks in specific regions, such as East Asia, the Visegrad states, and the Eurasian Economic Union, are currently underway and will be submitted to peer-reviewed journals in 2019.

Profile of Maximilian Jungmann



Maximilian Jungmann holds a PhD in Political Science from the University of Heidelberg in Germany. He is the Executive Manager of the Heidelberg Center for the Environment and lecturer at the Chair of International Relations and Foreign Policy at the University of Heidelberg, as well as the Karlsruhe Institute of Technology. He teaches classes on the interdependencies between media, society, and politics, on topics related to sustainable development and climate change, on scenario building in International Relations, on effective working techniques, and the United Nations. In 2018, he founded *Momentum Novum*, a social enterprise that offers

information, educational and advisory services on sustainable development. He currently acts as the CEO of Momentum Novum where he leads a team of over 20 international individuals that seek to foster sustainable development. He volunteers his time as a Climate Reality Leader and at the National Model United Nations • New York, where he serves as Under-Secretary-General for the Conference Management Department. His main research areas are centered around climate change and health, sustainable development, futurology, media effects, and International Relations theories.

Selected Publications

Jungmann, Maximilian (2018): The 16+1 Cooperation and China-EU Relations - Window of Opportunity for Sustainable Development?, China CEE Institute, Working Paper, No. 15, https://china-cee.eu/wp-content/uploads/2018/08/Work_paper-201815.pdf [6 September 2018].

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Marcou, Pauline/Jungmann, Maximilian/Carrier, Vincent/Miller, Kaylin (2016): High-Level Political Forum on Sustainable Development - Background Guide 2017, New York, http://nmun.org/ny17_downloads/BGGs/NY17_BGG_HLPF.pdf [6 September 2018].

Artmann, Stefan/Conard, Louis/Hassebrauck, Lukas/Jungmann, Maximilian/Starkmann, Anna/Větrovcová, Martina (2016): Auf dem Weg zur globalen Verantwortung? Die deutsche Außenpolitik im Wandel, in: Zeitschrift für Außen- und Sicherheitspolitik, DOI 10.1007/s12399-015-0549-6

Marcou, Pauline/Jungmann, Maximilian/Thorpe, Jeffrey, A. II/Keelan, Katie (2015): UN Environment Programme - Background Guide 2016, New York, http://nmun.org/ny16_downloads/BGGs/NY16_BGG_UNEP.pdf [6 September 2018].

Jungmann, Maximilian/Shively, Angela/Sandin, Kaitlin/Marcou, Pauline/Rudolph, Alexander/Erb, Kasey (2014): Security Council Background Guide 2015, New York, http://nmun.org/ny_archives/ny15_downloads/BGGs/NY15_BGG_SC.pdf [6 September 2018].

Shively, Angela/Aurora, Rubai/Godoy, David/Jungmann, Maximilian (2013): UN High Commissioner for Refugees Background Guide 2014, New York, http://www.nmun.org/ny_archives/ny14_downloads/BGGs/NY2014_BGG_UNHCR.pdf [6 September 2018].