

SHAN HUANG

SHuang@diw.de
+49 176 432 901 06

DIW Berlin
Mohrenstr. 58
10117 Berlin, Germany

RESEARCH INTERESTS Health Economics, Applied Microeconometrics, Empirical Industrial Organization

EDUCATION **PhD Student** since 2017
DIW Berlin, Berlin School of Economics
Advisors: Prof. Hannes Ullrich, Prof. Tomaso Duso

Research Master in Economics (M.Sc.) Aug 2015 - Aug 2017
Tilburg University (CentER Graduate School). Final Grade: 7.5 (Dutch Scale; *with distinction*)
Thesis: “The Effect of a Ban on Gender-Based Pricing on Risk Segmentation in the German Health Insurance Market”
Advisors: Prof. Martin Salm, Prof. Tobias Klein

Bachelor of Science in Economics (B.Sc.) Oct 2012 - Aug 2015
Humboldt University Berlin. Final Grade: 1.5 (German Scale; *very good*)
Thesis: “Modeling Effects from Chinese New Year in Time Series”
Advisors: Prof. Wolfgang Härdle, Prof. Michael Burda

Exchange Semester Sep 2014 - Feb 2015
Waseda University, Tokyo

REFEREED JOURNAL PUBLICATIONS *The Effect of a Ban on Gender-Based Pricing on Risk Selection in the German Health Insurance Market*
[Health Economics](#), 2020
With Martin Salm

WORK IN PROGRESS *Physician effects in antibiotic prescribing: Evidence from physician exits*
With Hannes Ullrich

Human antibiotic consumption is considered the main driver of antibiotic resistance. Reducing human antibiotic consumption without compromising health care quality poses one of the most important global health policy challenges. A crucial condition for effective policies is to identify who drives antibiotic treatment decisions. We investigate to what extent physician practice style, as opposed to patient-specific factors, determines general practice antibiotic intake and health outcomes. Using linked administrative data from Denmark, a low-prescribing country, we first document that prescriptions in general practice drive large variation in antibiotic consumption. To identify the causal effect of physician practice style on variation in antibiotic prescribing, we exploit quasi-experimental variation in patient-physician relations due to physician exits from clinics in general practice. We estimate that physician practice style accounts for 53 to 56 percent of the cross-practice variation in all antibiotic consumption, and for 74 to 81 percent in broad-spectrum antibiotic consumption. We find little evidence that low prescribing styles adversely affect health outcomes measured as preventable hospitalizations due to infections. Our findings suggest that policies to curb antibiotic resistance are most effective when aimed at improving physician decision-making. We document that high prescribing practice styles are positively associated with physician age and negatively with staff size and the availability of diagnostic

tools, suggesting that improvements in the quality of diagnostic information could be an important path to improved decisions.

NON-REFEREED PUBLICATIONS AND POLICY CONTRIBUTIONS	<i>Risk Segmentation in the German Health Insurance Market</i> With Martin Salm jointly published by BCCP News and BSE Insights , December 16 2020	
	<i>Unisex-Regelung verringerte Geschlechterlücke beim Wechsel zur privaten Krankenversicherung (German)</i> With Martin Salm DIW Wochenbericht 44 / 2020 , October 28 2020	
	<i>Gefahr durch Armut: Corona macht eben doch nicht alle gleich (German)</i> Guest commentary in the Frankfurter Rundschau , July 11 2020	
	<i>Corona-Tests sind zu selektiv, um auf tatsächliche Infektionszahlen zu schließen (German)</i> DIW aktuell 33 / 2020 , April 16 2020	
	<i>The importance of (non-selective) testing for understanding the SARS-CoV-2 pandemic</i> BSE Insights , April 1 2020	
EXPERIENCE	Research Assistant Department of Economics (University of Copenhagen)	<i>Jun 2019 - present</i>
	Research Associate Firms and Markets Department (DIW Berlin)	<i>Jan 2019 - present</i>
	Research Assistant Tilburg Law and Economics Center (Tilburg University)	<i>Apr 2017 - Aug 2017</i>
	Teaching Assistant Department of Econometrics & Operations Research (Tilburg University) Statistics 2 (Undergraduate course)	<i>Sep 2016 - Feb 2017</i>
	Student Assistant at Computer and Media Support Humboldt University Berlin	<i>Oct 2013 - Jul 2015</i>
WORKSHOPS, SEMINARS, AND CONFERENCES	2020: EBE Summer Meeting (Herrsching at Lake Ammer; postponed to 2021), 7th Workshop of the DGGÖ Committee Gesundheitsökonomie (Online), DIW Berlin GC Winter Workshop	
	2019: Econometric Society Summer School in Dynamic Structural Econometrics (Chicago), DIW Berlin GC Summer Workshop	
	2018: EBE&CRC/TR-190 Summer School: Applied Microeconomics - Topics and Methods (Ohlstadt), 5th Workshop of the DGGÖ Committee Gesundheitsökonomie (Essen)	
GRANTS AND AWARDS	Best Presentation Award at GC Winter Workshop 2020	<i>2020</i>
	Scholarship of the DIW Graduate Center	<i>2017</i>
	DAAD PROMOS Semester Travel Grant	<i>2014</i>
	WWG Humboldt University Berlin Travel Grant	<i>2014</i>

SKILLS

Software: Stata, R, Matlab, Latex, SPSS, Office

Languages: German (Native), English (Fluent, TOEFL 116 iBt), Chinese (Intermediate, HSK IV), Japanese (Intermediate, JLPT N3), French (Basic)

PERSONAL INFORMATION

Date of Birth: 01 April 1995

Citizenship: German