CURRICULUM VITAE
Friederike Arndt

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Office: +49 201 18-37485
Citizenship: German

EDUCATION

2016-	**PhD Candidate Economics**, University of Duisburg-Essen, Germany
2012 – 2015	**MSc Economics**, Humboldt University Berlin, Germany
2011 – 2012	Economic studies, Copenhagen University, Denmark
2009 – 2012	**BSc Economics**, Humboldt University Berlin, Germany

ACADEMIC APPOINTMENTS

2016-	**Research Fellow**, Department for Empirical Health Economics, University Duisburg-Essen, Germany
2013 – 2016	**Research Assistant**, Department for Economics, Humboldt University Berlin

WORK IN PROGRESS

"The impact of regulating physician prescribing behaviour – Spillover effects from preferred drug quotas across health insurance systems in Germany" with D. Avdic and K. Blankart

PRESENTATIONS

2018	Conference of the German Society for Health Economics (Hamburg, 03/2018), PhD Student-Supervisor Conference of the European Health Economics Association (Catania, 08/2018)

TEACHING

2016-	Teaching Assistant, Health Economics I (MSc)
2016-	Teaching Assistant, Applied Econometrics in Health Care Management (MSc)
2017-	Supervision of Master theses in the area of health economics and applied econometrics

ADDITIONAL INFORMATION

Programming Skills:	Stata, SAS, R
Language Skills:	German (native), English (fluent), French (advanced), Russian (basic)
Research Interests:	Health Economics and Applied Econometrics

UNIVERSITÄT DUISBURG ESSEN

Open-Minded

Faculty of Economics and Business Administration

Reference for Friederike Arndt, M.Sc.

To whom it may concern

I am delighted to be able to provide a reference to support Friederike's application for the Health Economics Research Boot Camp. I have known Friederike since 2016 in the recruiting of new PhD fellows. Her application was outstanding with regards to educational background and international experience. She is an economics graduate from Humboldt University, Berlin, Germany and the University of Copenhagen, Denmark. Early in her studies she started to gain research experience in economics and econometrics. Her motivation to address health economics issues led her to start her PhD project entitled 'The impact of regulation on physician treatment behavior' under my supervision at the University of Duisburg-Essen, Germany.

I am currently assistant professor of empirical health economics at the Faculty of Business and Economics of University of Duisburg-Essen. Before this appointment in 2016, I held a post-doc research position at University of Hamburg including supervision of PhD students and was a visiting scholar at Columbia Business School (NY) in the 2015/2016 academic year. I have specific expertise in innovation and industrial organization of highly regulated markets such as health care.

Friederike is in her second year of her PhD project. Her research has progressed quickly and is promising to inform discussions on how regulations impact physician practice styles. Friederike is analyzing variation in regional cost-control strategies in the health care sector with regards to physician treatment discretion and for different health systems. In doing so, Friederike aims to shed light on physician learning behavior. In her future projects, Friederike will address the undesirable consequences of regulating physicians with regards to health care utilization and cost, especially with respect to the pace of adoption of new products. In that context, aspects addressed by behavioral

Prof. Dr. Katharina Blankart, MBR
Assistant professor in empirical health economics

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Essen: Underground railway 11, 17, 18
Tram 101, 103, 105, 106, 107, 109
Bus SB16, 145, 147, 154, 155, 166, 196

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economics research are largely at play (e.g. intrinsic vs. extrinsic motivation of physicians) that Friederike aims at incorporating.

For the purpose of her current and future research, I consider the Health Economics Research Boot Camp an ideal place for Friederike to sensitize her to current challenges in her research field and to deepen her knowledge in public and behavioral economics.

Friederike always shows a great deal of commitment to her academic work. Further, her teamwork in the cooperative projects and her independence in her research are exemplary. She has an outstanding reputation among colleagues and project partners. Friederike is a highly motivated and interested PhD student with a quick perception of theory and methods.

I have no hesitation in writing a supportive statement for Friederike's application for the Health Economics Research Boot Camp.

Best regards,

Katharina Blankart

Katharina Blankart

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Essen, 23. September 18

Application for the Health Economics Research Boot Camp for Graduate Students

Dear Professor Ho, Professor Handel and Professor Kolstad,

I would like to apply as an attendance at the Health Economics Research Boot Camp for graduate students at NBER from December 4 to December 6, 2018.

My letter of recommendation will be written by my PhD advisor Professor Katharina Blankart.

Thank you for your consideration.

Sincerely,



Friederike Arndt

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Motivation Letter

The idea of a research-focused workshop on topics in health economics with leading researchers in this field is something I am very enthusiastic about. I would like to enhance my knowledge, discuss important topics in health economics and discuss my research ideas. In particular, would it be of great value for my current and future research projects, if I could attend the research boot camp.

I am a second year PhD student in economics at the University of Duisburg-Essen, Germany. I am eager to get an in-depth understanding in the field of empirical health economics. In particular, I am interested in the effect of market regulation on physician learning behavior and the diffusion of innovation in the health care market.

Due to rapidly increasing health expenditures, many countries have implemented cost-control strategies in the health care sector to regulate physician treatment discretion. In my first project, I study how regional variation in preferred drug quotas within the German statutory health insurance affects physicians' prescribing behavior of pharmaceuticals. I study the effects of both introduction and discontinuation of preferred drug quotas by applying a difference-in-difference econometric framework and the synthetic control method. Furthermore, I analyze whether the intervention spilled over to the non-treated patient population of private health insurees. The aim is to investigate to what extent these regulations influence the practice style of physicians and if cost savings can be achieved.

In my second project, I investigate whether and to what extend minimum quotas and priority prescription regulations affected the pace of diffusion and the utilization of biosimilars. Biosimilars are medicinal products that are similar to a biopharmaceutical but less expensive. Despite potentially high cost-savings, the diffusion of biosimilars is slow and there exist large variations of the utilization rate of biosimilars across regions and states. Using German data on physician prescriptions and patient characteristics, the impact of minimum quotas and priority prescription regulation shall be analyzed and potential cost-savings calculated.

In a future project, I will consider unintended and undesirable effects of regulation on product adoption. Cost-control regulations, e.g., budgets or target quotas, may influence physician

treatment behavior not only with respect to established drugs in the market but also with respect to innovative drugs entering the market. These innovative drugs are typically more expensive than their comparator treatments and physicians first need to learn about the product quality. Thus, physician adoption behavior for new pharmaceutical products may depend on exposure to regulations for cost-control and their respective compliance with such measures. Exploiting the fact of varying regulations across regions in Germany, it shall be analyzed if and to what extent physicians adopt new technologies or delay the decision.

What these projects have in common is the suboptimal choice of drugs by physicians. Benjamin Handel and Joshua Schwartzstein show in their paper "Frictions or Mental Gaps: What's Behind the Information We (Don't) Use and When Do We Care?" (2018) that it would be desirable to distinguish carefully the underlying mechanism of consumers' decision mistakes. Only with this knowledge, targeted mechanism policies would be possible. Reading this analysis was groundbreaking for me and I would like to learn in the workshop more about underlying empirical approaches and how regulations can be improved through in-depth knowledge of behavioral economics. In this regards, it would be very important for my current and future projects on physician choices to be able to attend the workshop.

Despite applied to the German health care system, the topic of physician regulation – either by the state or by insurers – is of great relevance for most countries facing increasing health expenditures. Therefore, learning more about unintended effects for, e.g. other patient populations or about unintended effects with respect to providence of innovative medication is crucial.

My research interests are at the intersect of public economics and behavioral economics. Enhancing my knowledge in these fields by attending the workshop would be a great opportunity for me to advance my projects and lead them to excellence. It is important to me and inspires me to discuss related research topics, methods and challenges with other researchers.

Thank you for your consideration.

Friederike Arndt