

# Lena Janys



## Academic career

2001 - 2007	Msc Economics/Dipl. Vw. Department of Business and Economics Humboldt University Berlin, Specialization: Statistics, Econometrics Master
2004 - 2005	Visting Student (9/2004 - 2/2005), Charles University Prague, Czech Republic
2007 - 2011	PhD in Economics (7/2007 - 1/2011), Aarhus School of Business, Aarhus University, Department of Economics
2008 - 2009	Visiting PhD Student (9/2008 - 2/2009), TIER Group at the Amsterdam School of Economics, University of Amsterdam, Amsterdam, Netherlands
2010	Research Assistant (Forskningsassistent, 7/2010 - 9/2010), Danish National Institute for Social Research (SFI), Copenhagen, Denmark
2010 - 2014	Postdoc, Alexander von Humboldt Chair in Econometrics and Empirical Economics, University of Mannheim (Member of the DFG Research Group Statistical Regularization)
2014 - 2015 ;br> and 2017	Parental Leave (9/2014 - 9/2015 and 2/2017 - 5/2017)
Since 2015	Assistant Professor in Econometrics (Tenure Track), University of Bonn

## Invited Lectures

2010	Applied Economics and Econometrics Seminar University of Mannheim, Econometrics Seminar at SFI Copenhagen
2012	Econometrics Seminar at SFI Copenhagen, Stockholm School of Economics Lunch Seminar, Uppsala University Labor Seminar
2015	Young German Microeconomists Workshop (invited session)
2016	International Society For Non-parametric Statistics (invited session)
2017	Department Seminar at Université de Fribourg

## Research profile

Lena Janys is an Econometrician, focusing on theoretical and applied Microeconometrics, especially for applications in health economics. Her work is both within non- and semiparametric duration models [1] and bandwidth selection [2], and in testing for treatment effects in the case of multiple outcomes/subgroup analysis using the group-sparse Lasso. Additionally, she works on applying state-of-the-art methods to correctly estimate the impact of health behaviours on mortality.

Her future research plans include further development of semiparametric duration models [1] by including unobserved heterogeneity and accounting for familial dependence in the form of shared and correlated frailties. In the area of treatment effects for multiple outcomes, she plans to focus on practical strategies for inference on the post- model selection samples. This is especially important for applied researchers who are interested in the coefficient size and standard errors and are not satisfied with merely selecting those outcomes for which the treatment is significant.

**Research Area H** Lena Janys' research in Research Area H focuses on statistical and econo-

metric problems within microeconometrics. The methods that she developed, allow researchers to effectively utilize prior knowledge in order to reduce the dimensionality of microdata [1] in, for example, flexibly estimating the determinants of mortality, while accounting for heterogeneity in other covariates. In a similar vein, effective bandwidth selection methods [2] are critical for applied researchers to utilize nonparametric methods, especially in health economics.

### **Selected publications**

- [1] Lena Janys, Enno Mammen, Jens Perch Nielsen, and Gerard J Van Den Berg. A general semiparametric approach to inference with marker-dependent hazard rate models. 2014.
- [2] María Luz G'amiz P'erez, Lena Janys, María Dolores Martí nez Miranda, and Jens Perch Nielsen. Bandwidth selection in marker dependent kernel hazard estimation. *Comput. Statist. Data Anal.*, 68:155–169, 2013.