

Dirk Antonczyk, PhD

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Personal Information

Citizenship and Immigration Status: German, permanent resident (green card holder)

Profile

Dirk is a Senior Economist at Amazon. He has over 11 years of combined experience in statistical and economic consulting and research. At Amazon Dirk develops economic models that drive global expansion strategies and that cover a wide range of labor market topics. As an economic consultant Dirk conducted studies for corporations, government agencies and law firms on a variety of economic and statistical/econometric issues. He also worked with testifying experts to address class certification, intellectual property, liability and damages issues in legal disputes and government investigations.

Dirk earned a PhD in Economics from the University of Freiburg and obtained an MSc in Economics from Humboldt-University Berlin. He also holds an MSc in Statistics from ENSAE, Paris. His research has been published in peer-reviewed journals and he has presented his research findings at university seminars and conferences in the United States and abroad.

Selected Consulting Experience

Labor and Employment

For various companies from the financial sector accused of miscalculating overtime pay, Dirk analyzed large company personnel and payroll databases to calculate restitution due to non-exempt employees. This task involved calculating the regular rate of pay for each employee on a week by week basis while accounting for incentive and bonus pay. His calculations took into account minimum wages that varied by state and findings were presented in mediation

In a matter alleging gender discrimination in the compensation of attorneys and their promotion to partner, Dirk examined the career profile of attorneys at a national law firm. The analysis focused on the determinants of compensation, promotion, and voluntary turnover. His analysis established that multiple career paths existed at the law firm and that associates working similar workloads in similar specialties were compensated and promoted similarly independent of gender.

Intellectual Property

For a large financial institution alleged of ignoring copyrights of publicly available information regarding interest rates, Dirk calculated damages under alternative scenarios, applying time-series econometrics and counterfactual distribution techniques.

For a trade association representing major motion picture studios, Dirk calculated the royalties owed for broadcasting the client's programs. He helped to develop an economic model that formed the basis for an estimation strategy which imputed TV ratings when they were not observed.

Compliance Analytics - Anti-Fraud and Money Laundering

Dirk has significant experience developing and applying experimental design approaches and subsequent statistical and econometric analysis frameworks to enhance and conduct validations of Anti-Money Laundering ("AML") customer risk rating ("CRR") models. He has led more than a dozen such CRR engagements for international as well as national and regional banks.

Securities

For an investment bank facing class actions and being under investigation by the SEC regarding its handling of certain initial public offerings, Dirk examined underwriting practices, prices and trading behavior. Based on these analyses he then estimated the bank's exposure under various trading models.

Professional Experience

Amazon, Seattle, WA Senior Economist – Labor Economics and Global Expansion Strategy	Since 07/2018
PricewaterhouseCoopers LLP, New York, NY Director and Manager, Advisory Services – Modeling and Analytics	06/2015-06/2018
Ernst & Young LLP, New York, NY Manager, Advisory Services – Modeling and Analytics	01/2015-05/2015
Deloitte Financial Advisory Services LLP, New York, NY Manager and Senior Associate – Economic and Statistical Consulting	10/2011-01/2015
Albert-Ludwigs-University Freiburg Research and Teaching Assistant to Prof. B. Fitzenberger	09/2007-09/2011

Education

Albert-Ludwigs-University Freiburg PhD in Economics (Dr. rer. pol.)	09/2007 - 09/2011
ENSAE ParisTech, Paris MSc in Statistics (Diplôme de Statisticien Economiste)	09/2004 - 09/2007
Humboldt-University Berlin MSc in Economics (Diplom-Volkswirt)	10/2002 - 09/2007

Academic Visits

Norwegian School of Economics and Business Administration (NHH), Bergen	10/2010
University of Wisconsin – Madison	06/2009-08/2009

Teaching Experience

Classes in Statistics and Econometrics, Undergraduate and Graduate level	04/2008-08/2011
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Professional Memberships

Institute for the Study of Labor (IZA), Bonn Research Fellow	Since 11/2010
American Economic Association	Since 12/2010

Publications and Working Papers

“Polarization and Rising Wage Inequality: Comparing the U.S. and Germany”, *Econometrics*, 2018, Vol.6(20), (with T. DeLeire and B. Fitzenberger)

“The Aftermath of Reunification: Sectoral Transition, Gender, and Rising Wage Inequality in East Germany”, *Economics of Transition*, 2013, Vol.21(1), pp.73-110, (with K. Kohn)

“Rising Wage Inequality, the Decline of Collective Bargaining, and the Gender Wage Gap”, *Labour Economics*, 2010, Vol.17(5), pp.835-847, (with B. Fitzenberger and K. Sommerfeld)

“Can a Task-Based Approach Explain the Recent Changes in the German Wage Structure?” *Journal of Economics and Statistics*, 2009, Vol.229(2+3), pp.214-238, (with B. Fitzenberger and U. Leuschner)

“Nonparametric Regression Models with Age, Period, and Cohort Effects”, revise and resubmit to *Journal of Statistical Planning and Inference*, (with B. Fitzenberger, E. Mammen, and K. Yu)

“Using Social Norms to Estimate the Effect of Collective Bargaining on the Wage Structure”, mimeo, (June 2014)

Languages

German (native), English (fluent), French (proficient), Spanish (basic)

Programming

R, Stata, SAS, Python, SQL, Matlab