

## **Dr. Astrid Cullmann**

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### **Research and Teaching Interests**

- Applied Microeconometrics, Productivity and Performance Measurement,
- Industrial Organization, Regulation, Managerial Economics
- Public Infrastructure Provision, Public Economics

### **Current Position**

- Lecturer for Statistics and Econometrics, TU Berlin 2017 – current
- Leader of a research group, DIW Berlin, 2013 – current

### **Education**

- Dr. rer. oec in Economics, TU Berlin (summa cum laude), 2009
- Diploma in Economics, FU Berlin, 2006
- University Carlos III, Madrid, Spain, 2003 – 2004
- University Bordeaux III, France, Language Studies, 1997 - 1998

### **Academic Positions**

- Research Associate, Berlin Economics Research Associates (BERA), 2016 – current
- Research Associate, Department of Firms and Markets, DIW Berlin, 2009 – current
- Selection for the Leibniz Association Mentoring Program, 2011 – 2012
- Copenhagen Business School, Denmark, Short Research Visit, 2009
- ETH Zürich, Short Research Visit (2 Months), 2008
- ETH Zürich, Short Research Visit (1 Month), 2007
- World Bank, Washington DC, Short Research Visit (1 Month), 2007
- DIW DC, Washington DC, Research Visit (3 Months), 2007
- PhD Program, Graduate Center on Economic and Social Research, DIW Berlin, 2006 – 2008

### **Research Grants**

- DFG (Deutsche Forschungsgemeinschaft), Research Project: Modern state-owned firms' performance - An empirical analysis of productivity, market power and innovation, (190,000 Euro), Project Leader, 2019 – 2021
- Leibniz Association (Senate Competition Committee), third party funding to establish an independent research group, (777,000 Euro), Project Leader, 2013 – 2016

- European Commission, 7th Framework Programme, Collaborative Project GRASP, (336,000 Euro), Project Coordinator at DIW Berlin, 2009 – 2013
- Federal Network Agency (Bundesnetzagentur): Gutachten zum Investitionsverhalten der Strom- und Gasnetzbetreiber with DIW ECON, 2014
- European Commission, 7th Framework Programme, Project NEWJOBS, Collaborative Project, 2011 - 2014
- Deutsche Telekomstiftung: Innovationsindikator, 2009
- PhD Studies Stipend at DIW Berlin, (ca. 40.000 Euro, 36 months), 2006 – 2009
- Federal Network Agency (Bundesnetzagentur), GERNER IV with SUMICSID, 2008
- DAAD Research Grant to visit the Department of Economics, ETH Zurich, 2007
- European Commission, 6th Framework Programme: Project SESSA, 2005
- German-Economic Council of Economic Advisors: Joint project on German and French electricity distribution, 2004 – 2006

### **Seminars and Conferences**

- Invited Research Seminar, University Neuchat el, 2016
- Invited Research Seminar, ETH Z urich, 2015, 2008
- European Association for Research in Industrial Economics (EARIE), 2015, 2011, 2009, 2008, 2006, 2005
- Tagung des Vereins f ur Socialpolitik (VfS), 2015, 2007, 2008, 2009
- European Workshop on Efficiency and Productivity Analysis, (EWEPA), 2015, 2011, 2009, 2007
- North American Productivity Workshop (NAPW), 2014, 2008
- Invited Research Seminar, Kiel University, 2011
- European Economic Association, 2007, 2005
- International Association of Energy Economics (IAEE), 2006
- Halle Efficiency and Productivity Analysis Workshop (HEPAW), 2006
- Hellenic Workshop on Efficiency and Productivity Measurement (HEWPEN), 2005

### **PhD Supervision and Thesis Committee**

- Caroline Stiel, TU Berlin, 2018
- Stefan Seifert, TU Berlin, 2016
- Xiaomei Cheng, Norwegian School of Economics (NHH), 2015
- Julia Rechlitz, TU Berlin and DIW Berlin 2016 - current

### **Service to the Profession**

#### **• Refereeing**

Empirical Economics, Energy Economics, Energy Journal, Energy Policy, European Journal of Operational Research, European Journal of Political Economy, International Journal of Industrial Organization, Journal of Comparative Economics, Journal of Economics, Journal of Productivity Analysis, Papers in Regional Science, Small Business Economics, Transport Policy, Public Transport, Transport Economics and Policy, Utilities Policy

#### **• Organizing**

International PhD Autumn School, Research in Infrastructure Economics, TU Berlin and DIW Berlin, International KOMIED Project Workshop

## **Outreach and Policy Work**

- Innovationen im Energiebereich: Unternehmen forschen wenig selbst, investieren aber verstärkt in Klimaschutz und Digitalisierung. DIW Wochenbericht 33 / 2019, (with C. Stiel C. Kemfert, A. Kritikos, J. Niehues, J. Rechlitz).
- Trend zur (Re-)Kommunalisierung in der Energieversorgung: ein Mythos? DIW Wochenbericht 20 / 2016, pp. 441-457, 2016, (with M. Nieswand, S. Seifert and C. Stiel)
- Keine Effizienzunterschiede zwischen öffentlichen und privaten Energieversorgungsunternehmen, DIW Wochenbericht 20 / 2016, pp. 448-453, 2016, (with M. Nieswand, S. Seifert and C. Stiel)
- Kein Rückgang der Investitionen in der kommunalen Energie- und Wasserversorgung, DIW Wochenbericht 43/2015, pp. 1041-1047, 2015, (with M. Nieswand and C. Stiel)
- Keine Investitionshemmnisse in Elektrizitäts- und Gasverteilnetzen durch Anreizregulierung. DIW Wochenbericht 6/2015, pp. 98-104, 2015, (with N. Dehnen, M. Nieswand and F. Pavel)
- Regulierung und Investitionen in der leitungsgebundenen Energieversorgung. DIW Roundup 54, 2015, (with M. Nieswand)
- Gutachten zum Investitionsverhalten der Strom- und Gasnetzbetreiber im Rahmen des Evaluierungsberichts nach §33 Abs. 1 ARegV: Endbericht; Projekt im Auftrag der Bundesnetzagentur. DIW Berlin – Politikberatung kompakt 92, 2014, (F. Pavel, Y. Girard, M. Nieswand, and N. Dehnen)
- Growth and Sustainability Policies for Europe (GRASP), Collaborative Project, 7th Framework Programme. Final Report (Chapter II), for EU Commission, 2013, (with D. Gloecker)
- Fallende Preise in der Wasserwirtschaft: Hessen auf dem Vormarsch. DIW Wochenbericht 10/2009, 2009 (with C. v. Hirschhausen, M. Walter and M. Zschille)
- Wie effizient werden die Forschungsausgaben im internationalen Vergleich eingesetzt? DIW Wochenbericht, 44/2009, 2009 (with J. Schmidt-Ehmcke and P. Zloczynski)
- Innovationsindikator 2009: Deutschland hat Aufholbedarf. DIW Wochenbericht 44/2009, 2009 (with H. Belitz, M. Clemens, J. Schmidt-Ehmcke, C. v. Hirschhausen, D. Triebe and P. Zloczynski)
- Innovationsindikator Deutschland 2009: Forschungsprojekt im Auftrag der Deutschen Telekom Stiftung und des Bundesverbandes der Deutschen Industrie. DIW Berlin: Politikberatung kompakt 51/2009, 2009, (with H. Belitz, M. Clemens, J. Schmidt-Ehmcke, C. v. Hirschhausen, D. Triebe, J. Herold, A. Kemnitz, R. Ketzler, D. Schäfer, C. Spiess, V. Steiner and P. Zloczynski)
- Ermittlung möglicher Fusionseffekte im ÖPNV – Eine Effizienzanalyse für Nordrhein Westfalen. Internationales Verkehrswesen 12/2008, 2008, (with C. v. Hirschhausen and M. Walter)
- Größenvorteile bei Busunternehmen des ÖPNV in Deutschland - Eine vergleichende Effizienzanalyse. Internationales Verkehrswesen 06/2008, 2008, (with B. Hess, C. v. Hirschhausen and M. Nieswand)

## **Other Skills**

- Languages: German (native), fluent in oral and written English, French, Spanish
- Computer: Econometric Analysis with LIMDEP, R, STATA

## 10 Selected Publications

- The effect of restructuring electricity distribution systems on firms' persistent and transient efficiency: The case of Germany. *The Energy Journal*, forthcoming, (with Badunenko, O., Kumbhakar, S., Nieswand, M.)
- Finding the Right Yardstick: Regulation under Heterogeneous Environments, *European Journal of Operational Research*, 2018, Vol. 265, No. 2, 710-722, (with E. Björndal, M. Björndal and M. Nieswand)
- Do Private Utilities Outperform Local Government-Owned Utilities? Evidence from German Retail Electricity, *German Economic Review*, 2017, (with M. Nieswand, and C. Stiel)
- Regulation and Investment Incentives in Electricity Distribution: An Empirical Assessment, *Energy Economics*, 2016, Vol. 57, pp. 192-203, (with M. Nieswand)
- Technical Efficiency and CO2 Reduction Potentials – An Analysis of the German Electricity Generating Sector, *Energy Economics*, 2016, Vol. 65, pp. 9-19, (with S. Seifert and C. v. Hirschhausen)
- R&D Efficiency and Barriers to Entry – A Two Stage Semi-Parametric DEA Approach, *Oxford Economic Papers*, 2012, Vol. 64, No. 1, pp. 176-196, (with J. Schmidt-Ehmcke and P. Zloczysti)
- Unobserved Heterogeneity and Efficiency Measurement in Public Transport, *Journal of Transport Economics and Policy*, 2012, Vol. 46, No. 1, pp. 51-66, (with M. Farsi and M. Filippini)
- Nonparametric Efficiency Analysis of German Public Transport Companies, *Transportation Research Part E*, 2010, Vol. 46, No. 3, pp. 436-445, (with C. v. Hirschhausen)
- Efficiency Analysis of East European Electricity Distribution in Transition – Legacy of the Past? *The Journal of Productivity Analysis*, 2008, Vol. 29, No.2, pp. 155-167, (with C. v. Hirschhausen)
- From Transition to Competition – Dynamic Efficiency Analysis of Polish Electricity Distribution Companies, *Economics of Transition*, 2008 Vol. 16, No. 2, pp. 335-357, (with C. v. Hirschhausen)