

# STEPHANIE ROSCH

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## Contact:

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## Key Qualifications:

Stephanie Rosch is a PhD candidate in the Department of Agricultural Economics at Purdue University specializing in international development, industrial organization, and contract theory. She holds an MS in Agricultural Economics from Purdue University (2010) and an S.B in Environmental Engineering from MIT (1999). She is a recipient of a US Borlaug Fellowship in Global Food Security (2012-2013), a US Embassy Policy Research Fellowship (2012-2013), and Kruhe and Ross Fellowships from Purdue University. She worked previously as a project manager for The Cadmus Group, Inc, where she oversaw contracts with revenues in excess of US\$1.2 million. Her international experience includes research and data collection in Kenya and Azerbaijan, consulting assignments in Madagascar and Canada, and two years of service as a Peace Corps volunteer in the Islamic Republic of Mauritania.

## Education:

- PhD Agricultural Economics; Purdue University, West Lafayette, IN; expected graduation May 2015.  
Dissertation: Why Don't Small-Scale Producers Supply French Bean Export Markets in Kenya?  
Essay 1: Does Contract Enforceability Act as a Barrier to Adopting French Bean Production?  
Essay 2: Do Search Frictions Compound Problems of Relational Contracting?  
Essay 3: Efficiency of Kenyan French Bean Exporters and Their Suppliers
- M.S. Agricultural Economics; Purdue University, West Lafayette, IN; December 2010.  
Thesis: Long-Term Contracts for Commodity Biofuel Crops
- B.S. Environmental Engineering Sciences, with minors in Civil Engineering, and Earth, Atmospheric, and Planetary Sciences; Massachusetts Institute of Technology, Cambridge, MA; 1999.

## Teaching Experience:

Purdue University

Fall 2011	Instructor of record	AGEC 596 Mathematical Economics
Spring 2011	Guest lecturer	AGEC 643 Theory of Economic Development
Fall 2010	Teaching assistant	AGEC 685 Advanced Quantitative Methods: Decision Making Under Uncertainty

## Grants and Awards:

- Kruhe Fellowship, Purdue University, 2013-2014  
US Embassy Policy Research Specialist Fellowship, 2012-2013.  
Lowell Hardin Award, Department of Agricultural Economics, Purdue University, 2012.  
US Borlaug Fellow in Global Food Security Program, 2012-2013.  
Graduate Student Excellence in Teaching Award, Department of Agricultural Economics, Purdue University, 2012.  
Committee for the Education of Teaching Assistants (CETA) Teaching Award, 2011-2012  
"Purdue Research Foundation Research Grant." Purdue University, One-Year Research Assistant Support, 2011-2012.  
Ross Fellowship, Purdue University, 2008 – 2009.

## **Employment Record:**

- 2008 – Present Graduate Research Assistant, Department of Agricultural Economics, Purdue University, West Lafayette, IN
- 2013 – 2013 Visiting Student Researcher, International Maize and Wheat Improvement Center (CIMMYT), Nairobi, Kenya
- 2012 – 2012 US Embassy Policy Specialist, IREX, Baku, Azerbaijan
- 2009 – 2009 Short Term Consultant, World Bank, Washington, DC
- 2007 – 2008 Associate, The Cadmus Group, Watertown, MA
- 2006 – 2007 Senior Analyst, The Cadmus Group, Watertown, MA
- 2006 – 2006 Analyst, The Cadmus Group, Watertown, MA
- 2003 – 2005 United States Peace Corps Volunteer, Islamic Republic of Mauritania, West Africa
- 2002 – 2003 Research Analyst, Tellus Institute, Boston, MA
- 1999 – 2001 Consultant – Engineer – Trainer, Customer Care Department, Akamai Technologies, Inc, Cambridge, MA

## **Relevant Technical Experience:**

### ***Visiting Student Researcher***

Socio-Economics Program, CIMMYT, Nairobi, Kenya (May 2013 – November 2013)

Designed and led a household survey for 240 farmers in Kirinyaga County, Kenya. Trained and supervised a team of 6 enumerators. Conducted interviews with farmers, regulators, and local experts on the French bean market. Forged partnerships with Kenya Agricultural Research Institute (KARI), Horticultural Crop Development Authority (HCDA), and Ministry of Agriculture (MoA).

### ***US Embassy Policy Specialist***

IREX, Ganja and Baku, Azerbaijan (October 2012 – December 2012)

Conducted field research on contracts in Azerbaijani horticultural markets. Conducted interviews with development experts and policymakers. Conducted focus groups with farmers in four regions of Azerbaijan. Established relationship with several NGO partner organizations to organize and carry out the focus groups. Preliminary results were presented to development experts at the USAID office in Baku on 18 December 2012. Research was subsequently published as an IREX Scholar Research Brief.

### ***Short Term Consultant***

Development Research Group, World Bank, Washington, DC (June 2009 – December 2009)

Conducted background research on climate change, agriculture, and poverty. Research consisted of interviews with World Bank staff, and reviews of academic and policy literatures. Research was subsequently published in *Applied Economic Perspectives and Policy* and *World Bank Policy Research Working Paper Series*. A short summary of the paper for policymakers was also published on the economics forum VoxEU.org.

### ***Analyst/Senior Analyst/Associate***

The Cadmus Group, Watertown, MA (2006 – July 2008)

Project manager for three USAID EPIQ II IQC task orders totaling more than US\$1.2 million in funding. Project manager for USEPA STREAMS task order to develop case studies of risk assessment applied to nanotechnology. Conducted research for the *Environmental Guidelines for Small-Scale Activities in Africa* for

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USAID and public drinking water systems in support of USEPA's community water system survey. Prepared a variety of compliance materials and trainings to support USAID's ENCAP program.

***US Peace Corps Volunteer***

Islamic Republic of Mauritania, West Africa (2003-2005)

Designed and conducted a number of activities to support public health initiatives, and address problems of water and sanitation in the village of Gani and the town of Rosso, Mauritania. Prepared and co-taught classes on women's health issues at the Maternal and Children's Health Center (PMI) in Rosso. Taught algebra and trigonometry tutorials at the Girls' Mentoring Center in Rosso.

***Research Analyst***

Tellus Institute, Boston, MA (2002-2003)

Developed course materials about environmental issues for micro and small enterprises in developing countries. Conducted research for the *Environmental Guidelines for Small-Scale Activities in Africa* for USAID.

***Customer Care Consultant/Engineer/Trainer***

Akamai Technologies, Cambridge, MA (1999-2001)

Diagnosed advanced problems with internal protocols (DNS, HTTP, RTSP), web servers & browsers, and IP network congestion. Coordinated communication between customer, business support staff, and software developers. Designed and managed group website built using Server-Side Includes on an Apache webserver. Specified, designed, and implemented software tools in Perl. Developed course materials and trained consultants in new products.

**Overseas Experience:**

Work Experience: Azerbaijan, Canada, Kenya, Mauritania, Madagascar

Travel Experience: Austria, Botswana, France, Greece, Hungary, Italy, Lesotho, Morocco, Namibia, Senegal, South Africa, Spain, Switzerland, Turkey, Zambia, Zimbabwe

**Languages:**

English (native); French (advanced speaking, reading, and writing); Wolof (advanced speaking, basic reading)

**Publications:**

Alexander, C., R. Ivanic, S. Rosch, W. Tyner, S. Y. Wu, and J. R. Yoder. "Risk Versus Reward, a Financial Analysis of Alternative Contract Specifications for the Miscanthus Lignocellulosic Supply Chain." Forthcoming in *BioEnergy Research*.

Rosch, S. (2013). Problems of Information and Contracting in Azerbaijani Agricultural Markets. IREX Scholar Research Brief.

Rosch, S., C. Alexander, W. Tyner, S. Y. Wu, and J. R. Yoder (2012). "Incentives in Long-Term Biofuel Contracts." Purdue University, RE-4-W.

Alexander, C., R. Ivanic, S. Rosch, W. Tyner, S. Y. Wu, and J. R. Yoder (2011). "Contract Theory and Implications for Perennial Energy Crop Contracting." *Energy Economics*, 34 (4): 970-979.

Hertel, T. W. and S. D. Rosch (2011). "Climate change and Agriculture: Implications for the World's Poor," VoxEU.org, 17 March.

Hertel, T. W., and S. D. Rosch (2010). Climate Change, Agriculture, and Poverty. *Applied Economic Perspectives and Policy*, 32 (3): 355-385. (Also published as World Bank Policy Research Working Paper 5468)

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### **Conference Presentations and Posters:**

- Rosch, S. and D. L. Ortega (2014). *Does Contract Enforceability Deter the Participation of Small-Scale Producers in Kenya's French Bean Export Market?* Presentation at the 11th Annual Midwest International Economic Development Conference in Minneapolis, MN; May 2-3, 2014.
- Rosch, S. and D. L. Ortega (2014). *The Impact of Imperfect Contract Enforcement on Kenya's French Bean Export Market.* Presentation at the 12th Annual International Industrial Organization Conference in Chicago, IL; April 11-13, 2014.
- Wu, S.Y, Rosch S., Alexander, C.E., Tyner, W.E., and J. Yoder (2010). *Making a market for Miscanthus: Can new contract designs solve the biofuel investment hold-up problem?* Poster presented at the Agricultural and Applied Economics Association 2010 Annual Meeting in Denver, CO; July 25-27, 2010.

### **Technical Reports:**

- U.S. EPA (2009). *Nanomaterial Case Studies: Nanoscale Titanium Dioxide (External Review Draft)*. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-09/057.
- S. Rosch (2007). *Initial Environmental Examination for the PlayPumps Program*. USAID Africa Bureau Office of Sustainable Development: Washington, DC.
- R. Jones and S. Rosch (2007). *Assessment of Drinking Water Quality for the USAID-Funded PlayPumps Program*. USAID Africa Bureau Office of Sustainable Development: Washington, DC.
- W. Fisher, M. Stoughton, M. Crow, and S. Rosch (2003). *USAID Environmental Guidelines for Small-Scale Activities in Africa (2<sup>nd</sup> Edition)*. USAID Africa Bureau Office of Sustainable Development: Washington, DC.

### **Service:**

Reviewer for the *Journal of African Economies* and *Agricultural Economics*.

Member of the Agricultural and Applied Economics Association.

For the Department of Agricultural Economics, Purdue University:

Organized and recruited faculty to teach a seminar class on history of economic thought (2009)

Vice President of the Graduate Student Organization (2010-2011)

Member of the department seminar committee (2011-2012)

Member of the ad-hoc committee on PhD student development (2014)

Member of the Board of Directors for the Bach Chorale Singers, Inc., Lafayette IN (2012-2015)

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