

## PERSONAL INFORMATION

## Zuzana Smeets Křístková



📍 Groenhoedenvveen 85, 1019 HM Amsterdam (Netherlands)

✉ zuzana.kristkova@wur.nl

## WORK EXPERIENCE

01/04/2016–Present

**Researcher**

Wageningen Economic Research, The Hague (Netherlands)

- Contribution to the development and application of MAGNET CGE model in the areas of Food Security, Food Safety and Bioeconomy
- Participation and coordination of A4NH project of Food Systems for Sustainable Diets
- Contribution to projects using econometric modelling tools to support policy makers

01/04/2014–01/04/2016

**Marie Curie Researcher**

Wageningen Economic Research, The Hague (Netherlands)

- Elaborating a Marie Curie Project METFACOS granted by the European Commission
- Research focused on Modelling Endogenous Technical Change in Agriculture for Food Security
- Econometric estimates of the relation between R&D investments and technical change in agriculture and other sectors of the economy
- Implementation of R&D-driven technical change in CGE model MAGNET

01/01/2008–Present

**Assistant professor**

Czech University of Life Sciences, Faculty of Economics and Management, Prague (Czech Republic)

- Research: the impact of research and development on the economic growth of the Czech Republic. Earlier research focused on analyzing the effects of Common Agricultural Policy on the Czech economy using a CGE framework.
- Education: lecturer/teacher of (graduate) courses in Economics of World Agriculture, Econometrics, Development Economics, and Agrarian Policy; supervision of M.Sc. and B.Sc. theses.
- Review of scientific papers (Economic Systems Research Journal, Review of Development Economics, Agris Online Papers in Economics and Informatics, Slovak Journal of Economics), Opponent Review of Master and Ph.D. theses, Evaluation of research proposals (Czech and Slovak Science Foundation)
- Other: member of state examination committees, organization of scientific seminars and conferences: International Conference on Economic Modeling in Prague EcoMod2013 (chair of the LOC), 131<sup>st</sup> EAAE Seminar in Prague (member of LOC).

01/04/2013–01/09/2013

**Visiting researcher**

Wageningen Economic Research, The Hague (Netherlands)

- Joint publication efforts focused on the Empirical estimations of R&D effects on TFP on the case of the Czech Republic (work in progress).
  - Joint problem/solving sessions on modeling technical change in CGE models
- Presentation of post-doc grant results in seminar and discussion sessions

01/12/2009–01/12/2012

**Researcher**

Institute of Agricultural Economics and Information, Prague (Czech Republic)

- Member of team consulting the Czech Ministry of Agriculture regarding the impact of the reform of the EU Common Agricultural Policy on the Czech economy.
- Key contributions include the design and implementation of a CGE model used for the ex-ante assessments, definition of policy-oriented scenarios and evaluation of results.
- Worked on co-authored publications with colleagues

01/03/2008–31/08/2008

### Stagiaire

European Commission, DG Agriculture and Rural Development, Brussels (Belgium)

- Contribution to the Impact Assessment of the Food Aid Program for the Most Deprived People.
- Participation in market projections of cereal crops and a review of the feedstuff projection method

01/08/2005–30/09/2005

### AIESEC Educational Traineeship

School of Business and Administration of Bogotá, Bogotá (Colombia)

- Participation in faculty's research activities including sector studies (textile and food processing sectors) and teaching econometrics seminars.

## EDUCATION AND TRAINING

---

01/10/2004–26/03/2010

### Ph.D. in Agricultural Economics

Czech University of Life Sciences in Prague, Faculty of Economics and Management, Prague (Czech Republic)

- Ph.D. thesis: Simulation of the impact of agrarian policy instruments on the Czech economy using a General Equilibrium Approach. (Defended: March 2010)

01/10/2001–09/06/2004

### M.Sc. in Agricultural Economics and Management

Czech University of Life Sciences in Prague, Faculty of Economics and Management, Prague (Czech Republic)

- Master thesis: Econometric modeling of Czech Agrarian Foreign Trade.
- Graduated with honors.

01/09/2002–30/06/2003

### Graduate exchange program (Erasmus)

Polytechnic University of Madrid, School of Agricultural Engineers, Madrid (Spain)

- Specialization: business economics and international trade

01/10/1998–30/06/2001

### B.Sc. in Economics and Management

Czech University of Life Sciences, Faculty of Economics and Management, Prague (Czech Republic)  
Specialization in Economics and Management. Graduated with honors.

09/10/2015–13/10/2015

### Dynamic Course in Global Trade Analysis

GTAP - Purdue University, West Lafayette (United States)

09/07/2012–13/07/2012

### Theory and Practice of Efficiency & Productivity Measurement: Dynamic Analysis

Wageningen School of Social Sciences, Wageningen (Netherlands)

- 18/07/2011–22/07/2011 **Advanced Techniques in General Equilibrium Modeling with GAMS**  
EcoMod Modelling School, Brussels (Belgium)
  
- 23/07/2007–27/07/2007 **Practical General Equilibrium Modeling using GAMS**  
EcoMod Modelling School, Brussels (Belgium)
  
- 25/08/2008–14/09/2008 **Exchange Study Program: “Doing Business in Taiwan”**  
Chinese Overseas Institute of Technology, Taichung (Taiwan)
  
- 27/06/2005–29/07/2005 **International seminar on Local Finance and Urban Taxation**  
International Center for Land Policy and Studies, Tayuan (Taiwan)

PERSONAL SKILLS

---

Mother tongue(s) Czech

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Spanish	C1	C1	C1	C1	C1
Dutch	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Job-related skills GAMS, Gempack, Stata, SPSS, R, MS Office (Excel, Word, Power Point)

ANNEXES

---

- List of research outputs January 2018.pdf

## List of research outputs January 2018.pdf

### Zuzana Smeets Křístková - List of recent academic publications:

Smeets Křístková, Z., Gardebroek, K., Van Dijk, M., Van Meijl, H. (2017): The impact of R&D on factor-augmenting technical change –an empirical assessment at the sector level. *Economic Systems Research*, Vol. 29, Issue 3, 385-417 .

Smeets Křístková, Z., Van Dijk, M., Van Meijl, H.(2016): Assessing the impact of agricultural R&D investments on long-term projections of food security. In *World Agricultural Resources and Food Security: International Food Security* (pp. 1-17). Emerald Publishing Limited.

Smeets Křístková, Z., Van Dijk, M., Van Meijl, H.(2016): Projections of long-term food security with R&D driven technical change – a CGE analysis. *NJAS - Wageningen Journal of Life Sciences* 77 (2016) 39–51.

Smeets Křístková, Z., Smeets, E., Van Meijl, H.(2016): Agricultural R&D investments, biofuel policy and food security – a CGE analysis. Paper prepared for the *GTAP 19th Annual Conference on Global Economic Analysis - "Analytical Foundations for Cooperation in a Multipolar World"*, Washington, 15.6. – 17.6.2016

Křístková, Z., & Ratinger, T. (2014). Potenciální distribuční efekty reformy Společné zemědělské politiky a vyvolaná strukturální změna. *Economic Journal of Slovak Academy of Science* (Journal of Economics), 62(5).

Ratinger, T. Smeets Kristkova, Z. (2015): R&D Investments, technology spillovers and agricultural productivity, case of the Czech Republic. *Czech Journal of Agricultural Economics* (Zemědělská ekonomika), Vol. 61/7.

Kristkova, Z., Garcia Alvarez-Coque, J.M. (2015): Competitiveness of the EU Beef Sector – a Case Study. *Agris Online Papers in Economics and Informatics*, Vol. 7/2

Křístková, Z. (2013), Analysis of private R&D effects in a CGE model with capital varieties, case of the Czech Republic. *Czech Journal of Economics and Finance*, Volume 63, Issue 3, pp. 262-287.

Ratinger, T., Křístková, Z. (2013), R&D Investments, Technology spillovers and Agricultural Productivity, Case of the Czech Republic. Paper presented at the 133<sup>rd</sup> EAAE Seminar in Chania, June 15 – June 16, 2013.

Křístková, Z., Ratinger, T. (2013): Modeling the efficiency of the agri-environmental payments to Czech agriculture in a CGE framework incorporating public goods approach. *Agris-Online Papers in Economics and Informatics*, Vol. V, Number 2, pp. 59 – 71.

Křístková, Z. (2012), Impact of R&D investment on the economic growth of the Czech Republic, a recursively dynamic CGE approach. *Prague Economic Papers*, 2012, Vol.4, pp. 412 – 433.

Křístková, Z., Ratinger, T. (2012), Impact of the CAP's Second Pillar Budget Reform on the Czech Economy. *Agris-Online Papers in Economics and Informatics*, 2012, Vol.4, Issue 4, pp. 49-59.

Křístková, Z. (2011): Macroeconomic Consequences of a Common Agricultural Policy Budget Reduction for the Czech Economy - a General Equilibrium Approach, *Economic Journal of Slovak Academy of Sciences*, 2011, Vol. 59, No.8 pp. 802-822.

Křístková, Z., and Habrychová, A. (2011): Modelling direct payments to agriculture in a CGE Framework – analysis of the Czech Republic, *Czech Journal of Agricultural Economics*. 2011, Vol. 57, No.11, pp. 517- 528.

Křístková, Z. (2010): „Approaches to the Dynamization of the CGE Model Applied to the Czech Republic”. *Emerging Markets Finance & Trade* / May–June 2010, Vol. 46, Supplement No. 1, pp. 59–82. ISSN 1540 – 496X/2010.

#### Policy Reports

Dudu, H., Křístková, S. Z, 2017, Impact of CAP Pillar II Payments on Agricultural Productivity, JRC Technical Report No: EUR; doi: 10.2760/802100

Grace, D., Smeets Křístková, Z., Kuiper, M.: The Economics of Food Safety in India – a rapid assessment. Wageningen Economic Research and International Livestock Institute.

Modelling Fish Stocks in MAGNET (2016): Internal report, included as a chapter in Deliverable D3.1 Report SUCCESS toolbox and visualisation of output

Ratinger, T., Foltyn, I., Humpal, J., Jelinek, L., Křístková, Z, and Zednickova, I. (2012) Analysis of the EC proposal for CAP 2014-2020 published on 12/10/2011 on Czech agriculture. (Analýza dopadu návrhu SZP pro období 2014-2020 pulikovaneho 12/10/2011 na české zemědělství). TU-4241 report, UZEI.

Ratinger, T., Foltyn, I., Humpal, J., Jelinek, L., Křístková, Z, and Zednickova, I. (2011) Analysis of the EU financial framework proposal for 2014-2020 on Czech agriculture. (Analýza dopadu návrhu finanční perspektivy EU pro období 2014-2020 na české zemědělství). TU-4241 report, UZEI.

Ratinger, T., Štiková, O., Mrhálková, I. Křístková, Z (2011): Impact of the VAT increase on the consumption of food and agriculture (Dopad zvýšení DPH na spotřebu potravin). Study prepared for the Federation of the Food and Drink Industries of the Czech Republic.

#### Presentation of papers at international conferences and seminars

EAAE Congress (Parma, 2017), EcoMod International Conferences on Economic Modelling (Boston 2015, Bali 2014, Prague 2013, Sevilla 2012, Azores 2011, Istanbul 2010), ICAE Congress (Milan 2015), ICABR Conference Ravello 2015, EAAE Seminars (Chania 2013, Capri 2012, Ancona 2011), EBES Conferences Istanbul (2012, 2009), Atlantic Economic Society (Warsaw 2008, Madrid 2007).

#### University Guest lectures and Invited Speaker Presentations

Smeets Kristkova, Z: Endogenising R&D investments in a global CGE model MAGNET. Invited speaker at the JRC Workshop on Estimation and Modelling Impacts of Pillar 2 Measures on the Agricultural Sector, Seville, September 14, 2017.

Smeets Kristkova, Z: Endogenising R&D investments in a global CGE model MAGNET. Invited speaker at the JRC-IPTS Macroeconomic Modelling Workshop: "Innovation and R&D modelling in a general equilibrium framework", Seville, 10-11 December 2015.

Smeets Kristkova, Z: Agricultural R&D investments and food security. Guest lecture prepared for the MSc Course Economics and Policy of Agricultural Development, Wageningen UR, November 19, 2015.

Smeets Kristkova, Z: Agricultural R&D investments, food security and bioenergy policy. Guest lecture prepared for the Lunch Seminar of the Wageningen School of Social Sciences, Wageningen UR, March 31, 2016.