

Miroslav Batka

Schlossplatz 1 • 2361 Laxenburg • Austria • +43 2236 807 665 • batka@iiasa.ac.at

Experience: **International Institute for Applied Systems Analysis (IIASA)**, Laxenburg, Austria
Research Scholar, 2015 – Present

- Developed a comprehensive global fisheries and aquaculture model.
- Participated in an assessment of global irrigation investment needs.
- Assisted with analysis and writing on issues of irrigation, livestock, and the environment.

International Food Policy Research Institute (IFPRI), Washington, DC
Research Analyst, 2012 – 2015

- Developed innovative models of livestock, land use change, aquaculture and fisheries.
- Trained researchers in GAMS software and basics of economic modeling in multiple countries.
- Presented findings at global conferences as well as to private and government stakeholders.

International Food Policy Research Institute (IFPRI), Washington, DC
Senior Research Assistant, 2010 – 2012

- Researched new markets and industries and created components for a global agricultural trade model.
- Authored research studies for a wide range of international private and public sector clients.
- Managed model development and trained junior members of the modeling team.

International Food Policy Research Institute (IFPRI), Washington, DC
Research Assistant, 2007 – 2010

- Supported senior fellows with statistical analysis and primary research.
- Created scenarios for partial-equilibrium and CGE model frameworks.

Sales Outsource Group, Washington, DC
Marketing Associate, 2007

- Generated leads and marketed consulting services to executives of Europe's Fortune 500 companies.

Roanoke College, Salem, Virginia
International Office Student Assistant, 2003 – 2007

- Assisted with management of academic exchange and study abroad programs.

Education: **Johns Hopkins University**, Washington, DC
Master of Arts in Applied Economics, 2008 – 2010

- Earned a degree with focus on public policy, trade, econometrics and quantitative methods.

Roanoke College, Salem, Virginia
Bachelor of Arts in Economics, 2003 – 2007

University of Bern, Bern, Switzerland, 2006

- Studied CGE economic models, learned GAMS, took master-level economics courses in German.

McGill University, Montreal, Canada, 2005

- Took advanced classes in international relations and regional politics in a French environment.

Languages: Native Speaker of Slovak; Fluent English, German, and Czech; Basic French.

Software: GAMS, STATA, RATS, Arc GIS, Stella Systems Dynamics, Microsoft Office

Miroslav Batka

Schlossplatz 1 • 2361 Laxenburg • Austria • +43 2236 807 665 • batka@iiasa.ac.at

- Publications:**
- Deppermann, A., Valin, H., Gusti, M., Sperling, F., **Batka, M.**, Chang, J., Frank, S., Havlík, P., Lauri, P., Leclère, D., Palazzo, A., Thomson, M., and M. Obersteiner. 2019. *Towards sustainable food and land-use systems: Insights from integrated scenarios of the Global Biosphere Management Model (GLOBIOM)*. Supplemental Paper to The 2019 Global Consultation Report of the Food and Land Use Coalition *Growing Better: Ten Critical Transitions to Transform Food and Land Use*.
 - Palazzo, A., Valin, H., **Batka, M.**, and P. Havlík. 2019. *Investment Needs for Irrigation Infrastructure along Different Socioeconomic Pathways (English)*. Policy Research working paper; no. WPS 8744. Washington, DC: World Bank Group.
 - Chan, C. Y., Tran, N., Dao, C. D., Sulser, T. B., Phillips, M. J., **Batka, M.**, Wiebe, K., and N. Preston. 2017. *Fish to 2050 in the ASEAN region*. Working Paper: 2017-01. Penang, Malaysia: WorldFish and Washington, DC: International Food Policy Research Institute.
 - Msangi, M., and **M. Batka**. 2015. "Major Trends in Diets and Nutrition: A Global Perspective to 2050." Pp. 227-241 in *Food Security in an Uncertain World (Frontiers of Economic Globalization, Volume 15)*, Schmitz, A., P. L. Kennedy and T. G. Schmitz (eds.). Emerald Group Publishing Limited.
 - Msangi, M., and **M. Batka**. 2015. "Dietary Change and Global Drivers of Change: How Can We Improve the Nutritional Status of the Bottom Billion?" Pp. 234-254 in *(Frontiers of Economic Globalization, Volume 15)*, Schmitz, A., P. L. Kennedy and T. G. Schmitz (eds.). Emerald Group Publishing Limited.
 - Kobayashi, M., S. Msangi, **M. Batka**, S. Vannuccini, M. Dey, and J. Anderson. 2015. "Fish to 2030: The Role and Opportunity for Aquaculture." *Aquaculture Economics and Management* 19(3):282-300.
 - Msangi, S., and **M. Batka**. 2015. "The Rise of Aquaculture: The Role of Fish in Global Food Security." Pp. 61-71 in *2014-2015 Global Food Policy Report*. Washington, DC: International Food Policy Research Institute.
 - The World Bank. 2013. *Fish to 2030: prospects for fisheries and aquaculture*. Agriculture and environmental services discussion paper No. 3. Washington, DC: The World Bank Group.
 - Msangi, S., A. Utah, and **M. Batka**. 2012. *African Agricultural Futures: Opportunities, Challenges and Priorities*. Prepared for Food Security in Africa. Sydney: Australian Centre for International Agricultural Research.
 - Yeh, S., D. Sperling, **M. Batka**, M. Griffin, H. Huang, M. Khanna, M. Kocoloski, P. Leiby, G. S. Mishra, S. Msangi, K. R. Mullins, H. Onal, N. C. Parker, J. Rhodes, J. Rubin, A. Venkatesh, J. Witcover, and C. Yang. 2012. *National Low Carbon Fuel Standard: Technical Analysis Report*. Institute of Transportation Studies Research Report UCDITS-RR-12-11. Davis, CA: University of California in Davis.
 - Westhoek, H. et al. 2011. *The Protein Puzzle*. The Hague: PBL Netherlands Environmental Assessment Agency.
 - Msangi, S., **M. Batka**, and M. Rosegrant. 2011. *Better Nutrition for the Bottom Billion: Policy Implications of Changing Diets for Agriculture and Development*. Prepared for PEPSICO. Washington, DC: International Food Policy Research Institute.

Miroslav Batka

Schlossplatz 1 • 2361 Laxenburg • Austria • +43 2236 807 665 • batka@iiasa.ac.at

Publications (continued)

- Vosti, S., S. Msangi, E. Lima, R. Quiroga, **M. Batka**, and C. Zanocco. 2011. *Agricultural Greenhouse Gas Emissions in Latin America: Current Situation, Future Trends and One Policy Experiment*. IDB Discussion Paper No. IDB-DP-167. Washington, DC: Inter-American Development Bank.
- Msangi, S., T. Sulser, A. Bouis, D. Hawes, and **M. Batka**. 2010. *Integrated Economic Modeling of Global and Regional Micronutrient Security*. HarvestPlus Working Paper No. 5. Washington, DC: International Food Policy Research Institute.
- Nelson, G., A. Palazzo, C. Ringler, T. Sulser, and **M. Batka**. 2009. *The Role of International Trade in Climate Change Adaptation*. ICTSD–IPC Platform on Climate Change, Agriculture and Trade Issue Paper No. 4. Geneva: International Centre for Trade and Sustainable Development and Washington, DC: International Food & Agricultural Trade Policy Council.
- Msangi, S. and M. Rosegrant. 2009. *World Agriculture in a Dynamic Changing Environment: IFPRI's Long-Term Outlook for Food and Agriculture Under Additional Demand and Constraints*. Prepared for FAO Expert Meeting on How to Feed the World in 2050. Washington, DC: International Food Policy Research Institute.
- Asian Development Bank. 2009. *Building Climate Resilience in the Agricultural Sector in Asia*. Mandaluyong City, Philippines: Asian Development Bank.
- Msangi, S., S. Tokgoz, **M. Batka**, and M. Rosegrant. 2009. *Investment Requirements under New Demands on World Agriculture: Feeding the World with Bioenergy and Climate Change*. Paper for FAO Expert Meeting on How to Feed the World in 2050. Washington, DC: International Food Policy Research Institute.
- Nelson, G., M. Rosegrant, J. Koo, R. Robertson, T. Sulser, T. Zhu, C. Ringler, S. Msangi, A. Palazzo, **M. Batka**, M. Magalhaes, R. Valmonte-Santos, M. Ewing, and D. Lee. 2009. *Climate Change: Impact on Agriculture and Costs of Adaptation*. Food Policy Report No. 21. Washington, DC: International Food Policy Research Institute.
- Rosegrant, M., C. Ringler, T. Sulser, M. Ewing, A. Palazzo, T. Zhu, G. Nelson, J. Koo, R. Robertson, S. Msangi, and **M. Batka**. 2009. *Agriculture and Food Security under Global Change: Prospects for 2025/2050*. Prepared for the Strategy Committee of the CGIAR. Washington, DC: International Food Policy Research Institute.
- Rosegrant, M., C. Ringler, A. Sinha, J. Huang, H. Ahammad, T. Zhu, S. Msangi, T. Sulser and **M. Batka**. 2009. *Exploring alternative futures for agricultural knowledge, science and technology (AKST)*. Canberra: Australian Centre for International Agricultural Research.