

EMILY M. SCHMIDT

Senior Research Fellow (Development Strategies Unit), IFPRI

My research focuses on the intersection of development economics and geographic information systems with an emphasis on the dynamic process of rural land transformation, rural employment diversification, and agricultural production outcomes on household welfare. My most recent research explores household livelihood strategies in Papua New Guinea (PNG), including linkages between agriculture, poverty and nutrition outcomes among rural smallholder farmers.

EDUCATION

Ph.D. Civil Engineering	University of Colorado, USA (2013)
M.A. International Development Studies	George Washington University, USA (2007)
B.A. Spanish, Fine Arts	Colorado State University, USA (2002)

SELECT PROFESSIONAL EXPERIENCE

International Food Policy Research Institute, 2009 – present

Boulder, Colorado:	Senior Research Fellow; Papua New Guinea Country Program Leader (2021 – present)
Washington, D.C.:	Research Fellow (2017 – 2022), Associate Research Fellow (2014-17), Senior Research Analyst (2011-13)
Addis Ababa, Ethiopia:	Country Program Coordinator / GIS Specialist (2009-11)

- Lead researcher / principal investigator on Papua New Guinea country strategy support program funded by DFAT (2017-present) including primary data collection and analysis, policymaker engagement and communications, and capacity strengthening program at universities and government departments.
- Lead researcher for PNG agriculture investment strategy project, working with governments of PNG and Australia, and other donor partners to inform data-driven options for economic growth in PNG
- Lead researcher for food price data collection and analysis program in PNG, including capacity strengthening of local partners for improved price monitoring across rural and urban markets.
- Lead researcher for rural household surveys in Papua New Guinea (2018-19 and forthcoming 2023) resulting in a variety of policy and academic papers and briefs that were provided to government department heads, provincial authorities and universities.
- Interim country program leader in Ethiopia (2011) – managed IFPRI program evaluation, key donor and stakeholder workshops and meetings, and research agenda activities and outputs
- Designed, implemented, and analyzed household panel data evaluation (2010, 2014) on water conservation projects to inform the Sustainable Land Management Program (SLMP) in Ethiopia.
- Perform econometric and spatial analysis on watershed management, sustainable land management, infrastructure, labor markets, and market access (ongoing).

GIS Analyst (Junior Professional Associate), World Bank, 2007-09

- Developed a natural disaster risk platform to improve emergency planning and response.
- Analyzed Mozambique transportation corridors and rural-urban transformation.

- Designed and taught hands-on GIS workshops and wrote GIS exercise manuals and learning aids.

Program Evaluation Assistant (Graduate Researcher), Plan International, 2006-07

- Evaluated rural population access to birth registration services in Bolivia
- Reported results of birth registration services to Plan International leadership to inform future program investments and policy dialogue

SELECTED PUBLICATIONS

- Schmidt, E.** & P.A. Dorosh. 2022. Impacts of the COVID-19-driven rise in global rice prices on consumers in Papua New Guinea. In *COVID-19 and global food security: Two years later*, eds. John McDermott and Johan Swinnen. Part Two: Agricultural Production and Value Chains, Chpt. 16, Pp. 102-104. https://doi.org/10.2499/9780896294226_16
- Schmidt, E.**, P. Fang, & K. Mahrt. 2022. Rural household welfare in Papua New Guinea: Food security and nutrition challenges. Papua New Guinea Food Policy Strengthening Working Paper 3. Washington, DC: International Food Policy Research Institute (IFPRI). <https://doi.org/10.2499/p15738coll2.136311>
- Kosec, K., **E. Schmidt**, L. Carrillo, P. Fang, M. Ivekolia & R. Ovah. 2022. Improving agricultural value chain coordination and gender inclusiveness in PNG. Papua New Guinea Food Policy Strengthening Working Paper 4. Washington, DC: International Food Policy Research Institute (IFPRI). <https://doi.org/10.2499/p15738coll2.136350>
- Schmidt, E.**, Fang, P. 2021. Papua New Guinea agri-food trade and household consumption trends point towards dietary change and increased overweight and obesity prevalence. *Globalization and Health* 17, 135.
- Schmidt, E.**, R. Gilbert, and P. Dorosh. 2021. Impacts of COVID-19 related income and rice price shocks on household welfare in Papua New Guinea. *Agricultural Economics*. 52(3): 391-406.
- Schmidt, E.**, Gilbert, R., Holtemeyer, B., & Mahrt, K. 2021. Poverty analysis in the lowlands of Papua New Guinea underscores climate vulnerability and need for income flexibility. *Australian Journal of Agricultural and Resource Economics*. 65(1): 171-191.
- Kosec, K., C.H. Mo, **E. Schmidt**, J. Song. 2021. Perceptions of relative deprivation and women's empowerment. *World Development*. 138. <https://doi.org/10.1016/j.worlddev.2020.105218>
- Schmidt, E.**, Mueller, V., & Rosenbach, G. 2020. Rural households in Papua New Guinea afford better diets with income from small businesses. *Food Policy*, 97.
- Mueller, V., **Schmidt, E.**, & Kirkleeng, D. 2020. Structural Change and Women's Employment Potential in Myanmar. *International Regional Science Review* 43(5): 450-476.
- Schmidt, E.** & Thomas, T. 2020. Cropland Expansion. In *Ethiopia's Agrifood System: Past trends, present challenges, and future scenarios*. Dorosh, P.A; and Minten, B. (Eds.) Washington, DC.
- Benson, T., **Schmidt, E.**, Namusoke, H., Temple, V.J., Holtemeyer, B., Codling, K., & Rudert, C. 2020. Limits to commercially iodized salt to address dietary iodine deficiency in rural Papua New Guinea. *Asia Pacific Journal of Clinical Nutrition* 29(2): 414-422.

- Schmidt, E.,** Dorosh, P., Kedir Jemal, M., & Smart, J. 2020. Urbanization and Structural Transformation. In *Ethiopia's Agrifood System: Past trends, present challenges, and future scenarios*. Dorosh, P.A; and Minten, B. (Eds.) Washington, DC
- Schmidt, E.** & Woldeyes Bekele, F. 2019. Rural youth and employment in Ethiopia. In *Youth and jobs in rural Africa: Beyond stylized facts*. Mueller, V. and Thurlow, J. (Eds.). Chapter 5, Pp. 109-136. New York, NY: International Food Policy Research Institute (IFPRI) and Oxford University Press.
- Mueller, V., **Schmidt, E.,** Lozano, N., & Murray, S. 2019. Implications of Migration on Employment and Occupational Transitions in Tanzania. *International Regional Science Review* 42(2): 181-206.
- Schmidt, E.** & Tadesse, F. 2019. The impact of sustainable land management on household crop production in the Blue Nile Basin, Ethiopia. *Land Degradation and Development*. 30(7): 777-787.
- Kedir Jemal, M., **Schmidt, E.,** & Tilahun, H. 2018. Market access, teff production, and fertilizer use over time. In: Minten, B. et al (eds.). *The economics of teff: Exploring Ethiopia's biggest cash crop*. Washington, DC: International Food Policy Research Institute (IFPRI).
- Kosec, K. Ghebru, H., Holtemeyer, B., Mueller, V., & **Schmidt, E.** 2018. The effect of land access on youth employment and migration decisions: Evidence from rural Ethiopia. *American Journal of Agricultural Economics* 100(3): 931-954.
- Arndt, C., Dale, A., Hatzenbuehler, P., Kyle, J., Matshe, I., Schlosser, A., & **Schmidt, E.** 2018. A data revolution for agricultural production statistics in Sub-Saharan Africa. *Ghanaian Journal of Economics* 6(1): 54-73.
- Schmidt, E.,** Chinowsky, P., Robinson, S., & Strzepek, K. 2017. Determinants and impact of sustainable land management (SLM) investments: A systems evaluation in the Blue Nile Basin, Ethiopia. *Agricultural Economics* 45(5): 613-627.
- Dorosh, P., **Schmidt, E.,** & Thurlow, J. 2016. Agricultural Growth, Poverty and the Rural Non-Farm Economy: A Spatial Economywide Analysis. In: Spielman, D.J. et al. (eds.). *Agriculture and the Rural Economy in Pakistan: Issues, Outlooks, and Policy Priorities*. Philadelphia, PA: University of Pennsylvania Press.
- Schmidt, E.** & Zemadim, B. 2015. Expanding sustainable land management in Ethiopia: Scenarios for improved agricultural water management in the Blue Nile. *Agricultural Water Management* 158: 166-178. doi:10.1016/j.agwat.2015.05.001
- Lall, S.V., Schroeder, E., & **Schmidt, E.** 2014. Identifying Spatial Efficiency–Equity Trade-offs in Territorial Development Policies: Evidence from Uganda. *The Journal of Development Studies* 50(12): 1717-33.
- Schmidt, E.** & Tadesse, F. 2014. Sustainable agriculture in the Blue Nile Basin: land and watershed management practices in Ethiopia. *Environment and Development Economics* 19: 648-667.
- Chamberlin, J. & **Schmidt, E.** 2012. Ethiopian Agriculture: A dynamic geographic perspective. In: Dorosh, P.A. & Rashid, S. (eds.). *Food and Agriculture in Ethiopia: Progress and Policy Challenges*. Washington, D.C.: International Food Policy Research Institute and University of Pennsylvania Press.
- Dorosh, P., Wang, H., You, L., & **Schmidt, E.** 2012. Road connectivity, population and crop production in Sub-Saharan Africa: Spatial correlations and analysis. *Agricultural Economics* 43(1): 89-103.
- Dorosh, P., **Schmidt, E.,** & Shiferaw, A. 2012. Economic Growth without Structural Transformation: The Case of Ethiopia. *Journal of African Development* 14(2):7-40.

LANGUAGES

English - Native; Spanish – Fluent in writing and speaking; Italian – Fluent in writing and speaking