

Philip P. Grabowski

Associate Professor of Sustainable Development
Department of Biology, Environmental Science, and Sustainability
Taylor University

CONTACT INFORMATION

1846 S Main St. 103 Randall
Upland, IN 46989-1001
765-998-5386
philip_grabowski@taylor.edu

EDUCATION

Ph.D., Community Sustainability Awarded May 2015
Michigan State University, East Lansing, MI. GPA: 3.98/4.0
Dissertation title: Promotion and Adoption of Conservation Agriculture in Mozambique and Zambia
Specialization in Ecological Food and Farming Systems
Certification in College Teaching

M.S., Community, Agriculture, Recreation and Resource Studies Awarded May 2011.
Michigan State University, East Lansing, MI. GPA: 4.0/4.0
Thesis title: Constraints to Adoption of Conservation Agriculture in the Angónia Highlands of Mozambique: Perspectives from Smallholder Hand-hoe Farmers
Specialization in International Development

B.S., Plant Biology/Environmental Biology with Honors, Awarded May 2002.
Michigan State University, East Lansing, MI. GPA: 3.975/4.0
Specializations in Environmental Studies and Caribbean and Latin American Studies
Study abroad in Costa Rica - 2 semesters

PROFESSIONAL EXPERIENCE

Assistant Professor of Sustainable Development - Taylor University (Aug 2017 – present)
Department of Biology, Environmental Science, Sustainability and Public Health
Faculty advisor for Stewards of Creation Club
Leader of campus sustainability efforts including overseeing Sustainability Assistants
Manager of campus garden and aquaponics system and supervisor of summer research interns

Research Associate – Michigan State University (May 2015 – August 2017)
Center for Global Change and Earth Observation, Department of Plant, Soil and Microbial Sciences
Supervisor: Dr. Sieglinde Snapp
Research projects: Developing effective indicators of sustainable agricultural intensification in Africa
Modeling the adoption of perennial grains in Africa with system dynamics

Adjunct instructor – Michigan State University (January – December 2014)

Department of Community Sustainability

Program Consultant - Malawi and Mozambique (December 2005 – August 2009)

World Renew - previously Christian Reformed World Relief Committee (CRWRC)

- Responsible for community development projects in sustainable agriculture, nutrition, public health, adult literacy and small business projects, reaching over 100,000 beneficiaries
- Organizational development of two local rural development organizations including capacity building of partner staff, board training, strategic planning, and program evaluations
- Grant writing success for food security, relief, home based care, and malaria prevention and treatment totaling over \$1.5 million

Program Hope Intern – Malawi (June 2003 – December 2005)

World Renew - previously Christian Reformed World Relief Committee (CRWRC)

- Developed a composting latrine project which spread to over 2000 households in 6 years
- Developed and carried out community planning protocols using Participatory Rural Appraisal

Volunteer in Missions - Yakama Reservation, Wapato, WA (June 2002 – June 2003)

The Campbell Farm, vegetable gardening, caretaker for wide range of animals, groundskeeper

Educational Concerns for Hunger Organization, Ft. Myers, FL (June-August 2001)

Research assistant: Moringa leaf sprays as a foliar fertilizer, and appropriate technology controls of root knot nematode (*Meloidogyne* spp.)

TEACHING EXPERIENCE

Undergraduate courses at Taylor University

SUS 120 “Environmental Stewardship and Sustainable Living” 1 cr., 7-15 students (2018-2021)

SUS 200/231 “Environmental Science, Society and Sustainability” 3-4 cr., 30-45 students (each semester 2017-2023); hybrid in 2020/21 and asynchronous virtual (summer 2020, 2021, 2023)

SUS 310 “Principles of Sustainable Development” 4 cr., 5-13 students (2018, 2020, 2021)

ENS 302 “Environmental Law and Policy” 4 cr., 15-20 students (2017, 2019, 2022)

SUS 315 “Sustainable Food Systems and Health” 4 cr., 13-15 students, (2018, 2020, 2022)

SUS 211 Lab “Crops and Society” 20-24 students - 2022, 2023 (support in 2020 and 2021)

SUS 325 “Sustainable Agricultural Development” 4 cr., with PBH 340 “Community Health Development” 4 cr. 20 students (2019), 12 students (2023) off-campus course in Malawi (and Zambia in 2019) hosted by World Renew

PBH 110 “Global Health” 3 cr. 19 students (2022 co-taught w/ S. Bielko), 25 students in 2023

PBH 350 “Determinants of Health and Health Equity” 3 cr. 14 students (2021) co-taught w/ S. Bielko

HEA 370 “Practical Skills in Sustainable Development” 3 cr. 6 students (2022) instructor of record for experience at HEART village, Lake Wales, FL

Independent studies (SUS 360 “community health development in cross-cultural settings” (2022) and “Sustainable agriculture” (2019)) and practicums (SUS 393 two to five per summer 2018-2022)

Undergraduate courses at Michigan State University

CSS 431 “International Agricultural Systems” 3 cr., 9 and 17 students (2016 and 2017)

CSUS 200 “Introduction to Sustainability” - 3 cr., 40 students, 2014

ACR 202 “Problem Solving in Community Agriculture and Environmental Systems” 3 cr., 25 students, 2014

On-line course development

Chung, K., Cashin, K., Isaacs, K., and Grabowski, P. 2015. An Introduction to Nutrition-Sensitive Agricultural Programming. Online course. Washington, DC: USAID’s FANTA Project at FHI 360.

SUS 200 – Environment and Society – Taylor University Online – summers 2020, 2021, 2023

Conferences Organized

“Blackford and Grant County Community Food Workshop” September 27, 2022. Hosted 35 community leaders and food system stakeholders. Facilitated by Indiana Department of Health.

“Creation Fest” April 23, 2022. Led a task force in organizing this 1st annual open-house event in Fishers with Evangelical Environmental Network and several local churches. Set up a booth about sustainability at Taylor University including a worm bin. 250+ attended.

“Meeting on Indicators for the Sustainable Intensification of Agriculture” December 14 and 15, 2016. Hosted 50 participants from 6 institutions at Kellogg Conference Center, Michigan State University. Program included plenary presentation, World Café sessions and a poster session.

Selected Workshops Facilitated

“Understanding Environmental Racism: The Disproportionate Burden of Pollution on Minorities in the U.S.” Taylor University’s Martin Luther King Jr. Day seminar (Upland, IN, January 2020)

“Creation Stewardship across the Curriculum” at the Council of Christian Colleges and Universities Faith Integration Conference (Upland, IN, August 2019)

“Gender and Youth Analysis Tools for Decision-makers in Sustainable Agricultural Intensification” (Malawi and Ghana, July 2019 and June 2018). Sustainable Agricultural Intensification Research and Learning Alliance with Michigan State University and the Institute for International Tropical Agriculture.

“Indicators for Sustainable Intensification” 2 day workshop for Africa RISING and the Sustainable Intensification Innovation Lab (Malawi, Senegal, Cambodia, Kansas, Oct 2016 to May 2017)

“Participatory Research Methods for Agriculture”
Snapp lab group training – MSU (November 2015)
Center for Regional Food Systems - MSU (Shakara Tyler; June 2014)

“Faith Based Community Development in Southern Africa” undergraduate lecture presented at:
Calvin College - Community Development (Joe Kuilema; March 2013)
Calvin College - NGOs and Grassroots Organizations (Tracy Kuperus; January 2012 and 2013)

“Participatory Rural Appraisal for Community Planning” for World Renew partners in Southern Africa (2008)

“Designing for Behavior Change” for World Renew Malaria Control Program in Malawi (2008)

“Results Based Management” for World Renew partners in Southern Africa (2007)

PUBLICATIONS

Grabowski, P., 2023. Eat lovingly: Christianity and food ethics for sustainable and just food systems. Submitted to Christian Scholars Review

Grabowski, P., Slater, D., Gichohi, W., Chikowo, R., Mwangwela, A., Chimwala, D., Bekunda, M. (in prep). Human micronutrient deficiencies and the soil: A Sustainable Intensification perspective from East and Southern Africa.

Grabowski, P., Slater, D., Okori, P., Manda, J., Mwololo, J., Jumbo, B., Chikowo, R., Ndanikou, S., Wanyama, R., Bekunda, M. (in prep). A pluralistic seed system research agenda for sustainable intensification – lessons from Africa RISING in East and Southern Africa

Lalani, B., Aminpour, P., Gray, S., Williams, M., Büchi, L., Hagggar, J., **Grabowski, P.** and Dambiro, J., 2021. Mapping farmer perceptions, Conservation Agriculture practices and on-farm measurements: The role of systems thinking in the process of adoption. *Agricultural Systems*, 191, p.103171.

Zulu, L.C., Djenontin, I.N., **Grabowski, P.** 2021. From diagnosis to action: Understanding youth strengths and hurdles and using decision-making tools to foster youth-inclusive sustainable agriculture intensification. *Journal of Rural Studies* 82, 196-209.
<https://doi.org/10.1016/j.jrurstud.2021.01.023>

Grabowski, P., Djenontin, I., Zulu, L., Kamoto, J., Kampanje-Phiri, J., Darkwah, A., Egyir, I., and Fischer, G. (2020) Gender-and youth-sensitive data collection tools to support decision making for inclusive sustainable agricultural intensification. *International Journal of Agricultural Sustainability*. P. 1-17

Fischer, G., Darkwah, A., Kamoto, J., Kampanje-Phiri, J. and **Grabowski, P.** (2020). Sustainable agricultural intensification and gender-biased land tenure systems: an exploration and conceptualization of interactions. *International Journal of Agricultural Sustainability*. p.1-20

Zulu, L.C., Djenontin, I.N., Darkwah, A., Kamoto, J., Kampanje-Phiri, J., Fischer, G., **Grabowski, P.** and Egyir, I., 2020. Realizing Inclusive SAI: contextualizing indicators to better evaluate gender and intergenerational inequity in SAI processes and outcomes—cases from Southern and Western Africa. *International Journal of Agricultural Sustainability*, pp.1-27.

Grabowski, P., Schmitt-Olabisi, L., Adebiyi, J., Waldman, K., Richardson, R., Snapp, S. 2019. Assessing adoption potential in a risky environment: The case of perennial pigeonpea. *Agricultural Systems* 171, 89-99.

Grabowski, P., Musumba, M. Palm, C. and Snapp, S. 2018. Sustainable agricultural intensification and measuring the immeasurable: Do we have a choice? Chapter 29 In: Bell, S. and Morse, S. (eds.) *The Routledge Handbook of Sustainability Indicators and Indices*. Taylor and Francis.

- Snapp, S., **Grabowski, P.**, Chikowo, R. , SIRRINE, D., Anders, E., Smith, A. Chimonyo, V. and Bekunda, M. 2018. Maize yield and profitability tradeoffs with social, human and environmental performance: Is sustainable intensification feasible? *Agricultural Systems* 162, 77-88.
- Grabowski, P.**, Kerr, J., Haggblade, S. Kabwe, S. 2016. Determinants of adoption and disadoption of minimum tillage by cotton farmers in Eastern Zambia. *Agriculture Ecosystems and Environment* 231, 54-67.
- Grabowski, P.**, Haggblade, S. 2016. The Economics of Conservation Agriculture in Africa: The Implications of Climate Change. In: Lal, R., Kraybill, D., Hansen, D.O., Singh, B.R., Mosogoya, T., Eik, L.O. (Eds.) *Climate Change and Multi-Dimensional Sustainability in African Agriculture* ISBN 978-3-319-41238-2.
- Grabowski, P.**, Haggblade, S. Kabwe, S. and Tembo, G. 2014. Minimum tillage adoption among commercial smallholder cotton farmers in Zambia 2002 to 2011. *Agricultural Systems*. 131, 34-44. DOI: 10.1016/j.agsy.2014.08.001
- Grabowski, P.** and Kerr, J. 2014. Resource constraints and partial adoption of conservation agriculture by hand-hoe farmers in Mozambique. *International Journal of Agricultural Sustainability* 12 (1) 37-53.

Manuals

- Grabowski, P. Djenontin, I., Zulu, L., Kamoto, J., Kampanje-Phiri, J., Darkwah, A., Egyir, I., and Fischer, G. 2022. A Decision Makers' Guide to Equitable Sustainable Agricultural Intensification. <https://cgspace.cgiar.org/handle/10568/121982>
- Musumba, M., Grabowski, P., Palm, C. and Snapp, S.S., 2017. Guide for the sustainable intensification assessment framework. <https://www.k-state.edu/siil/resources/framework/index.html>
- Musumba, M., Grabowski, P., Palm, C. and Snapp, S.S., 2017. Sustainable Intensification Assessment Methods Manual. <https://www.k-state.edu/siil/resources/framework/index.html>

Policy Briefs

- Kabwe, S., Grabowski, P., Haggblade, S. and Tembo, G. 2014. Conservation farming adoption among smallholder cotton farmers in Zambia 2002 to 2011. Indaba Agricultural Policy Research Institute, Policy Brief Number 64. Available from: <http://www.iapri.org.zm>

Working Papers

- Grabowski, P. and Jayne, T.S. 2016. Analyzing trends in herbicide use in Sub-Saharan Africa. International Development Working Paper 142. Michigan State University. <http://fsg.afre.msu.edu/papers/idwp.htm>

- Richardson, R.B., Olabisi, L.S., Sakana, N., Waldman, K. and Grabowski, P. 2015. The impact of sustainable intensification on landscapes and livelihoods (SILL) in Zambia. Ibadan, Nigeria: IITA. <https://cgspace.cgiar.org/handle/10568/69008>
- Grabowski, P., Kerr, J., Donovan, C. Mouzinho, B. 2015. A prospective analysis of participatory research on conservation agriculture in Mozambique. Instituto de Investigação Agraria em Moçambique, Maputo, Mozambique. Research paper 11E. <http://fsg.afre.msu.edu/mozambique/WP11E.pdf>
- Grabowski, P., Kerr, J., Haggblade, S., Kabwe, S. 2014. Determinants of adoption of minimum tillage by cotton farmers in Eastern Zambia. Indaba Agricultural Policy Research Institute Working Paper 87, Lusaka, Zambia. <http://fsg.afre.msu.edu/zambia/research.htm>
- Grabowski, P., and Mouzinho, B. 2013. Mozambique conservation agriculture inventory report. Instituto de Investigação Agraria em Moçambique, Maputo, Mozambique. Working paper 6E.
- Grabowski, P., and Mouzinho, B. 2013. Prioritizing actions for conservation agriculture in Mozambique. Instituto de Investigação Agraria em Moçambique, Maputo, Mozambique. Working paper 5E.
- Grabowski, P., Walker, F., Haggblade, S., Maria, R., and Eash, N. 2013. Conservation agriculture in Mozambique: Literature review and research gaps. Instituto de Investigação Agraria em Moçambique, Maputo, Mozambique. Working paper 4E.

RESEARCH GRANTS

- “Local food access for health” High-Impact Community Engagement Practices grant from Community Engaged Alliance. \$4000, 2022
- “Grant and Blackford County Local Food Summit” Community Food Systems Workshop grant from Indiana Department of Health, Division of Nutrition and Physical Activity. \$4,000, 2022
- “Faculty Mentored Undergraduate Scholarship” to oversee 2 summer researchers in campus garden, from Taylor University Provost’s office. \$9,600 per year 2018-2022
- “Randall Compost and Greenhouse Collaboration” from Taylor University’s Women’s Giving Circle. \$4100, 2019
- “Strengthening Local Food Systems – Exploring Opportunities for Sustainability” Indiana Campus Compact, Scholarship of Engagement Grant. \$3,250, 2018
- “Achieving equitable benefits from sustainable agricultural intensification through more effective tools and metrics” Funded by Department for International Development – United Kingdom (DFID-UK) through the Sustainable Agricultural Intensification Research and Learning Alliance (SAIRLA) project. £450,000 July 2016 to December 2019. Co-lead on proposal development with Dr. Gundula Fischer (IITA). Thematic leader for assessing tools to analyze gender and youth equity. Co-principal investigator at MSU with Dr. Leo Zulu (Geography).
- “Are we there yet: Developing indicators for sustainable intensification” Awarded by United States Agency for International Development (USAID) through the Sustainable Intensification

Innovation Lab (SIIL) at Kansas State University. \$233,610 (MSU portion) from September 2016 to August 2017.

PRESENTATIONS

- “Sustainable Development and the Christian Faith”, September 2, 2022. Taylor University Academic Chapel main speaker (approximately 1300 in attendance).
- “Organic food production research in the Taylor University campus garden”, May 25, 2022. Delaware County Master Gardeners (approximately 50 in attendance)
- “Christian Community Development” Lesson 12 of the course “Perspectives on the Christian World Movement”. November 2019 (WGM), 2020 and 2021 (College Wesleyan)
- “Eat Lovingly: Ethical aspects of food choices for sustainability and justice” September 2020 for Homecoming “Taylor Talks” at Taylor University. <https://pillars.taylor.edu/taylor-talks/20/>
- “Eat Lovingly: Ethical reflections on food, the body and creation” August 21, 2019, Colleagues’ College, Taylor University
- “Modeling Adoption of Perennial Grains for Sustainable Agriculture: Insights from System Dynamics and Choice Experiments.” November 07, 2018, American Society of Agronomy meeting, Baltimore Convention Center
- “Evaluating ‘climate-smart’ agricultural technologies with indicators of sustainable intensification: Examples from Southern Africa” Presented at American Society of Agronomy Annual Meeting, Phoenix, AZ, November 8, 2016
<https://scisoc.confex.com/scisoc/2016am/webprogram/Paper100207.html>
- “How do we measure progress towards being good stewards?” and “Balancing accountability and flexibility in agricultural development projects”, Presented at Global Agriculture Summit, Dordt College, March 3-4, 2016.
- “Modeling adoption of perennial grains in Africa with System Dynamics” Presented at Workshop on Perennial Crops in West African Farming Systems, ICRISAT/FAO/MSU, Bamako, Mali September 2-5, 2015.
- “Farmers’ Perspectives on Conservation Agriculture in Eastern Zambia” Presented at the Eye on Africa seminar series, African Studies Center, Michigan State University, October 9, 2014.
<http://eyeonafrika.matrix.msu.edu/wp-content/uploads/2014/11/October-9th-2014-Philip-Grabowski.mp4>
- “Conservation Agriculture Adoption by Smallholder Cotton Farmers in Eastern Province, Zambia” Presented at the First African Congress on Conservation Agriculture, Lusaka, Zambia, March 17, 2014.
- “Constraints to Adoption of Conservation Agriculture in Mozambique” graduate lecture presented at: Michigan State University - (January 2013 and December 2012)
- “Adoption of Conservation Agriculture by Smallholder Cotton Farmers in Zambia.” Presented at the CARRS Graduate Research Symposium, East Lansing, MI, March 21, 2013.

“Desenvolvimento de um plano para agricultura de conservação em Moçambique.” Presented at the annual meeting of the Platform for Agricultural Research and Technological Innovation, IIAM, Maputo, Mozambique, November 8, 2012.

“Uma Avaliação Qualitativa da Agricultura de Conservação no Planalto de Angónia, Moçambique: Perspectivas dos Agricultores de Sector Familiar.” Presented at the IIAM mini-symposium on Conservation Agriculture, Maputo, Mozambique, February 11, 2011.

“A Qualitative Assessment of Conservation Agriculture in the Angonia Highlands of Mozambique: Perspectives from Smallholder Farmers.” Presented at the FAO Regional Conservation Agriculture Symposium held in Johannesburg, South Africa, February 8-9, 2011.

RESEARCH POSTERS

Grabowski, P., Staritz, N., Hynson, R. October 2022. “Comparing organic sprays and soil amendments for vegetables” presented at Taylor University Homecoming student / faculty research poster and at the Indiana Small Farm Conference (February 2023)

Grabowski, P., Tucker, J., Langerak, K. October 2021. “Effective Sustainable Gardening with Organic Soil Amendments and Sprays” presented at Taylor University Homecoming student / faculty research poster

Grabowski, P., Rice, L, Fouts, I. March 2021. “Cost-effective Organic Vegetable Production” presented at Indiana Small Farms Conference, Purdue Extension, virtual

Grabowski, P., Snapp, S., Djenontin, I., Fischer, G. and Zulu, L. February 2021 “Participatory Tools for Analyzing and Enhancing Gender and Youth Equity in Sustainable Agriculture Intensification in Ghana and Malawi” Women, Gender and Development Conference, Virginia Tech, virtual

Weikart, R., Lyon, H., and Grabowski, P. October 2019. “Taylor University Garden and Local Food Sustainability” presented at Taylor University Homecoming student / faculty research poster

Grabowski, P. Nelson, J., and Rush, C. February 2019. “Strengthening Local Food Systems in Grant County” presented at Indiana Small Farms Conference, Purdue Extension, Danville, IN

Rush, C., Nelson, J., and Grabowski, P. October 2018. “Taylor University Garden and Local Food Sustainability” presented at Taylor University Homecoming student / faculty research poster

FELLOWSHIPS AND AWARDS

Dr. Joe Burnworth Teaching Award (2022) from Taylor University for outstanding teaching and noteworthy contributions to the academic and community life of Taylor University during the first 5 years

Dissertation Completion Fellowship (2014). Michigan State University

Ph.D. Research Assistantship with MSU-USAID Food Security Project (2011-2014)

C.S. Mott Pre-doctoral Fellowship in Sustainable Agriculture (2012). CSUS-MSU

Milton H. Steinmueller Fellowship in Natural Resources and Environmental Policy (2013) MSU

Foreign Language and Area Studies Fellowship - U.S. Department of Education (2009-2011)

George and Nancy Axinn Scholarship for International Development (2011) CSUS-MSU

Hueschen Scholarship - American Chemical Society (1998-2002)

OTHER QUALIFICATIONS

Professional Societies

American Society of Agronomy

Air and Waste Management Association

Languages

Spanish: Proficient. 5.5 years of classes and 1.5 years of immersion

Portuguese: Strong verbal and written skills. Studied 4 semesters, 4 years of experience

Chichewa: Near fluent. 4 months of immersion and study and 8 years of experience

Data Analysis Software

STATA, Stata Corporation - statistical analysis

NVIVO, QSR international - qualitative analysis

Stella– System Dynamics Modeling

QGIS - spatial analysis

R – statistics and spatial data analysis