

# TRAVIS WILLIAM REYNOLDS

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NSF Research Experience for Undergraduates (REU): <https://www.uvm.edu/cals/cdae/reu-in-uganda>

Consortium for Crop Genetic Heritage: <https://www.uvm.edu/cals/consortium-for-crop-genetic-heritage>

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## ACADEMIC APPOINTMENTS AND AFFILIATIONS

2018 – present: UNIVERSITY OF VERMONT, Burlington, VT.

**Associate Professor of Community Development and Applied Economics** (2021-present).

**Director, Master of Public Administration Program** (2021-present).

**Fellow, Gund Institute for Environment** (2019-present).

**Graduate Faculty Affiliate, Food Systems Program** (2018-present).

Courses: CDAE 371 / 7710: Sustainable Development Policy & Governance

CDAE 3952 / 6920: Graduate Research Seminar

CDAE 351 / 6510 / PA 6030 / 303 / FS 395 / 6950: Research & Evaluation Methods

PA 375 / 6750: Master of Public Administration Capstone

PA 302 / 6020: Organizational Culture and Leadership

CDAE 295 / 395: Food Systems Resilience in Puerto Rico

CDAE 295 / 395: Global Food Policy

CDAE 255 / 3550: Applied Consumption Economics

CDAE 002 / 1020: World Food, Population, & Sustainable Development

**Assistant Professor of Community Development and Applied Economics** (2018-2021).

2011 – 2018: COLBY COLLEGE, Waterville, ME.

**Associate Professor of Environmental Studies** (2017-2018).

Honors: Charles Bassett Teaching Award for Excellence in Undergraduate Teaching.

Courses: ES 493A: Environmental Policy Practicum (*capstone research course*)

ES 347A: Tropical Forests and Rural Livelihoods

ES 346A: Global Food Policy

ES 234A: International Environmental Policy

ES 233A: Domestic Environmental Policy

ES 118A: Environment and Society

**Assistant Professor of Environmental Studies** (2011-2017).

2008 – 2019: UNIVERSITY OF WASHINGTON, Seattle, WA.

**Affiliate Assistant / Associate Professor of Public Policy and Management** (2017-2019).

**Visiting Assistant Professor of Public Policy and Management** (2014).

**Graduate Instructor in Public Affairs** (2009-2011).

Courses: PBAF 516: Microeconomic Policy Analysis

PBAF 499: Microeconomics and Public Policy

2005 – 2007: UNIVERSITY OF VERMONT, Burlington, VT.

**Graduate Instructor in Community Development and Applied Economics** (2006-2007).

Courses: CDAE 295: Sustainable Development in Saint Lucia (Co-Instructor)

## **EDUCATION**

2007 – 2011: UNIVERSITY OF WASHINGTON, Seattle, Washington.

### **Ph.D. in Public Policy and Management**

Focus: Environmental governance; natural resource management; rural livelihoods.

Honors: Certificate in social statistics from the Center for Statistics & Social Sciences.

2005 – 2007: UNIVERSITY OF VERMONT, Burlington, Vermont.

### **M.S. in Community Development and Applied Economics**

Focus: Environmental policy, rural community development, agriculture and environment.

Honors: University Fellowship; Peace Corps Fellow; Graduate Certificate in Ecological Economics; North American Colleges and Teachers of Agriculture Award for Excellence in Graduate Teaching.

1998 – 2002: BROWN UNIVERSITY, Providence, Rhode Island.

### **B.A. in International Relations and French Civilization**

Honors: Magna cum laude; Phi Beta Kappa.

2001 – 2001: INSTITUT D'ETUDES POLITIQUES DE PARIS, Paris, France.

UNIVERSITÉ PARIS 1 PANTHÉON-SORBONNE, Paris, France.

## **OTHER PROFESSIONAL EXPERIENCE**

2020 – present: INTERNATIONAL FUND FOR AGRICULTURAL DEVELOPMENT (IFAD), Rome, Italy.

### **Research Mentor, 50x2030 Research Awards Program**

Responsibilities: supporting applied research by low-income country scholars participating in the 50x2030 research competition; activities including providing editorial feedback on written work and supporting primary data analysis using 50x2030 agricultural datasets.

2014 – present: BIOVERSITY INTERNATIONAL, Rome, Italy.

### **Agrobiodiversity & Ecosystem Services Programme Policy Analysis Trainer**

Responsibilities: development and delivery of workshops training Bioversity International staff from Africa, Latin America, South Asia, and Eastern Europe in policy analysis theory and methods as applied to national policies, with a focus on policies relating to agro-biodiversity.

2013 – 2014: HORN OF AFRICA REGIONAL ENVIRONMENTAL COLLABORATIVE & NETWORK (HOA-REC&N), Addis Ababa, Ethiopia.

### **Wild Food Value Chain Consultant**

Responsibilities: design and implementation of research on value chains for wild-harvested products in the Gambella Region including fish, honey, and shea butter, including resource mapping, documenting processing and quality control methods, and socioeconomic surveys.

2003 – 2005: UNITED STATES PEACE CORPS, Senegal, West Africa.

### **Peace Corps Trainer – Agriculture and Agro-forestry**

Responsibilities: instructing new agriculture and agro-forestry Peace Corps recruits in Senegalese farming practices and intermediate to advanced agro-forestry techniques.

### **Peace Corps Volunteer – Agro-forestry Program**

Responsibilities: assisting/training Senegalese farmers in tree nursery establishment, fruit tree propagation, grafting, and the use of trees in gardens and crop fields to increase production.

2000: TIMOR AID EMERGENCY PROGRAM, Dili, East Timor.

### **Assistant Logistics Coordinator**

Responsibilities: overseeing customs clearance, transport, and distribution of humanitarian aid; collaborating with local and international staff in a multicultural environment.

Since Birth: STANNARD FARM (The Reynolds Family), Stannard, VT.

#### **Farmer's Son**

Responsibilities: land stewardship and animal husbandry including production of certified organic hay, organic grass-fed beef, and organic maple syrup; extensive small business management experience including direct and wholesale marketing of agricultural products; preparing organic certification paperwork and small business licenses and taxes; developing farm infrastructure (buildings, fencing, corrals, pasture water systems), using and maintaining farm machinery and other agricultural equipment.

### **GRANTS AND AWARDS**

"Sustainability and Resilience of Upstream Input Value Chains Supporting Small- and Medium-scale Farms in Rural Vermont." 2023-2026. USDA Hatch. Principal Investigator. **\$44,456.**

"Doctoral Dissertation Research: Scientific Evidence Use in Public Policy Decision Making in Nigeria." 2024-2025. National Science Foundation. Principal Investigator with co-PI / PhD student Toyib Aremu. **\$30,000.**

"Peace Corps Strategic Campus Recruiter." 2024-2025. US Department of the Interior. Principal Investigator. **\$149,850.**

"Managing Pasture for Healthy Farms and Soils across Vermont." 2021-2025. USDA NRCS and Vermont Land Trust. Co-PI with PI Dr. Eric Bishop von Wettberg. **\$2,500,000.**

"Understanding Farmer Decision Making in Performance-Based PES Programs through the Vermont Pay for Phosphorus Program." Principal Investigator. Northeast SARE. 2022-2024. **\$29,937.**

"REU Site: Geographic, Socio-economic, and Cultural Factors Shaping Crop Diversity and Livelihood Outcomes." 2020-2024. National Science Foundation. Principal Investigator with co-PI Dr. Daniel Tobin. **\$475,468.**

"Sustainability Metrics for Upstream Input Value Chains on Small- and Medium-scale Farms in Vermont." Principal Investigator with co-PIs Dr. Mario Machado and Dr. Bryony Sands. ARS Food Systems Research Center. 2022-2023. **\$54,935.**

"Food Systems Resilience: Fisheries and Aquaculture in Puerto Rico." 2021-2023. NOAA Sea Grant. Principal Investigator with PI / Co-PI Dr. Jane Kolodinsky. **\$120,000.**

"Changing Climate and Changing Markets in the New England Maple Syrup Sector: Risk Perceptions and Adaptation Strategies among Small/Medium-Scale Maple Producers." 2019-2023. USDA Hatch. Principal Investigator. **\$60,000.**

"Social and Economic Factors and Resilience in Vermont's Food System: Critical Lessons from COVID –19" 2020-2021. Center for Food Systems Research: Rapid Response to COVID-19, University of Vermont. **\$19,771.** Co-PI with Susan Hodgson.

"Seeds of Resilience: Learning from COVID –19 to Strengthen Seed Systems in Vermont" 2020-2021. Center for Food Systems Research: Rapid Response to COVID-19, University of Vermont. **\$20,000.** Co-PI with Dr. Eric Bishop von Wettberg, Dr. David Conner, and PI Dr. Daniel Tobin.

“Northeast Organic Seed Conference: Strengthening the Regional Organic Seed Sector.” 2020-2021. USDA NIFA OREI Conference Grant. Co-PI with Dr. Eric Bishop von Wettberg and PI Dr. Daniel Tobin. **\$49,974.**

“Conference Grant for the 24th ICABR Conference: Accelerating Innovations for the Bioeconomy: Applied Research Policy Change and Economic Growth.” 2019-2021. USDA NIFA AFRI Conference Grant. Principal Investigator. **\$49,978.**

“Enhancing Food Resilience as Disaster Preparedness: The Role of Anchor Institution Partnerships.” 2019-2021. USDA-NIFA Smith-Lever Special Needs Competitive Grants for Disaster Preparedness. Co-Investigator with Dr. Jane Kolodinsky and PI Dr. David Conner. **\$42,617**

“Food Systems Resilience in Coastal Communities: Curricular and Grant Partnerships with the University of Puerto Rico.” Food Systems Transdisciplinary Workshop / Proposal Development Funds, University of Vermont. 2019-2020. Principal Investigator. **\$10,000.**

“Seed System Diversity and Resilience in New Vermont Farming Communities.” 2019-2020. Catalyst Award. Gund Institute for the Environment, University of Vermont. Co-PI with Dr. Eric Bishop von Wettberg. **\$50,000.**

“Risk Perceptions and Adaptation Strategies among Small/Medium-Scale Maple Producers.” 2018-2019. USDA Hatch. Principal Investigator. **\$10,000.**

“Evans School Policy Analysis and Research (EPAR).” Bill and Melinda Gates Foundation, Agricultural Development Group. Co-PI with Dr. C. Leigh Anderson (University of Washington). 2015-2019. **\$4,580,000.**

“Evans School Policy Analysis and Research (EPAR).” Bill and Melinda Gates Foundation, sub-contract with Brookings Institution. Co-PI with Dr. C. Leigh Anderson (University of Washington). 2015-2019. **\$476,790.**

“REU Supplement: Undergraduate Research into the Cultural, Economic, and Ecological Significance of Church Forests in South Gondar, Ethiopia.” National Science Foundation Research Experience for Undergraduates (REU) Site Supplement. Principal Investigator, with Co-PIs Dr. Denise Bruesewitz (Colby College) and Dr. Margaret Lowman (California Academy of Sciences). 2017-2018. **\$14,568.**

“REU Site: Undergraduate Research into the Cultural, Economic, and Ecological Significance of Church Forests in South Gondar, Ethiopia.” National Science Foundation Research Experience for Undergraduates (REU) Site. Principal Investigator, with Co-PIs Dr. Denise Bruesewitz (Colby College) and Dr. Margaret Lowman (California Academy of Sciences). 2014-2018. **\$391,470.**

## **PEER-REVIEWED PUBLICATIONS**

(\*Denotes student co-author)

Aremu\*, T., & Reynolds, T. W. (2024). Welfare benefits associated with access to agricultural extension services in Nigeria. *Food Security*, 1-26.

Morrissey\*, K., Reynolds, T., Tobin, D., & Isbell\*, C. (2024). Market engagement, crop diversity, dietary diversity, and food security: evidence from small-scale agricultural households in Uganda. *Food Security*, 16(1), 133-147.

Curtin, I. J., Tobin, D., & Reynolds, T. (2024). Do wealth and market access explain inconsistent relationships between crop diversity and dietary diversity? Evidence from 10 sub-Saharan African countries. *Sustainability*, 16(3), 1040.

- Zebrowski\*, W. M., & Reynolds, T. W. (2024). Consumed from within? Social and ecological drivers of internal clearings in Ethiopian Orthodox church forests. *Land Degradation & Development*, 35(1), 334-349.
- Lacasse\*, H., Kolodinsky, J., Reynolds, T., & Darby, H. (2024). Modeling hemp as an innovative input: an application of the diffusion of innovations in a sample of hemp aware consumers. *Agriculture and Human Values*, 41(1), 239-248.
- Isbell\*, C., Tobin, D., Jones, K., & Reynolds, T. W. (2023). Enhancing resilience through seed system plurality and diversity: challenges and barriers to seed sourcing during (and in spite of) a global pandemic. *Agriculture and Human Values*, 40(4), 1399-1418.
- Conner, D., Whitehouse\*, C., Serrano-Cortés\*, N., Rodriguez-Perez, R., Cunningham\*, N., Reynolds, T., & Kolodinsky, J. (2023). Food Resilience Toolkit in action. *Journal of Agriculture, Food Systems, and Community Development*, 13(1), 1-7.
- Cunningham\*, N, Conner, D, Reynolds, TW. (2023). Anchor institutions and food resilience: A Multiple Streams approach. *International Journal on Food System Dynamics*, 14(2), 134-145.
- Wubalem, A, Reynolds, TW, Wodaju, A. (2022). Estimating the recreational use value of Tis-Abay Waterfall in the upstream of the Blue Nile River, North-West Ethiopia. *Heliyon*, e12410.
- Reynolds, TW, Anderson, CL, Biscaye, P, O'Brien-Carrelli, C, Keel\*, J. (2023). Gender, mobile money and financial inclusion: Evidence from eight low- and middle-income countries. *Information Technology for Development*, 1-28.
- Whitehouse\*, C, Conner, D, Chase, L, Reynolds, TW. (2023). The experience of Vermont local food businesses during the first year of the COVID-19 pandemic. *Journal of Agriculture, Food Systems, and Community Development*, 12(2), 1-14.
- Quella, L., Chase, L., Conner, D., Reynolds, T., & Schmidt, C. (2023). Perceived success in agritourism: Results from a study of US agritourism operators. *Journal of Rural and Community Development*, 18(1).
- Shafer\*, PJ, Chen, YH, Reynolds, TW, von Wettberg, EJ. (2022). Farm to Institution to Farm: Circular food systems with native entomoculture. *Frontiers in Sustainable Food Systems*, 5, 721985.
- Otieno, G, Zebrowski\*, WM, Recha, J, & Reynolds, TW. (2021). Gender and social seed networks for climate change adaptation: Evidence from bean, finger millet, and sorghum seed systems in East Africa. *Sustainability*, 13(4): 2074-2106.
- Sahle, M, Saito, O, Reynolds, TW. (2021). Nature's contributions to people from church forests in a fragmented tropical landscape in southern Ethiopia. *Global Ecology and Conservation*, e01671.
- Isbell\*, C, Tobin, D, Reynolds, TW. (2021). Motivations for maintaining crop diversity: Evidence from Vermont's seed systems. *Ecological Economics*, 189: 107-138.
- Quella\*, L, Chase, L, Conner, D, Reynolds, TW, Wang, W, Singh-Knights, D. (2021). Visitors and values: A qualitative analysis of agritourism operator motivations across the US. *Journal of Agriculture, Food Systems and Community Development*, 10(3): 1-15.
- Reynolds, TW, Tobin, D, Otieno, G, McCracken\*, A, Guo\*, J. (2020). Differences in crop selection, resource constraints, and crop use values among female- and male-headed smallholder households in Kenya, Tanzania, and Uganda. *Journal of Agriculture, Food Systems and Community Development*. 9(4): 1-28.

- Anderson, CL, Reynolds, TW, Biscaye, P, Patwardan, V, Schmidt, C. (2020). Economic benefits of empowering women in agriculture: Assumptions and evidence. *Journal of Development Studies*, 57(2): 193-208.
- Wineman, A, Njagi, T, Anderson, CL, Reynolds, TW, Wainaina, P, Njue, E, Biscaye, P, Ayieko, M. (2020). A case of mistaken identity? Measuring rates of improved seed adoption in Tanzania using DNA fingerprinting. *Journal of Agricultural Economics*, 71(3): 719-741.
- Caughron, A, Legault, S, Haut, C, Reynolds, TW. (2020). A changing climate in the maple syrup industry: Variation in Canadian and U.S. producers' climate risk perceptions and willingness to adapt across scales of production. *Small-Scale Forestry*. 20(1): 73-95.
- Wineman, A, Anderson, CL, Reynolds, TW, Biscaye, P. (2019). Methods of crop yield measurement on multi-cropped plots: Examples from Tanzania. *Food Security*, 11(6), 1257-1273.
- Reynolds, TW, Klawitter, M, Biscaye, PE, Anderson, CL. (2018). Mobile money and branchless banking regulations affecting cash-in, cash-out networks in low-and middle-income countries. *Gates Open Research*, 2: 64-96.
- Cullen, A, Anderson, CL, Biscaye, P, Reynolds, TW. (2018). Variability in cross domain risk perception among smallholder farmers in Mali by gender and other demographic and attitudinal characteristics. *Risk Analysis*. 38(7):1361–1377.
- Anderson, CL, Reynolds, T, Merfeld, JD, Biscaye, P. (2018). Relating seasonal hunger and prevention and coping strategies: A panel analysis of Malawian farm households. *The Journal of Development Studies*, 54(10): 1737-1755.
- Mellaku, M., Reynolds, T., & Woldeamanuel, T. (2018). Linear programming-based cropland allocation to enhance performance of smallholder crop production: A pilot study in Abaro Kebele, Ethiopia. *Resources*, 7(4), 76-84.
- Otieno, GA, Reynolds, TW, Karasapan\*, A, Lopez-Noriega, I. (2017). Implications of seed policies for on-farm agrobiodiversity and food security policy in Ethiopia and Uganda. *Sustainable Agriculture Research*, 6(4): 12–30.
- Reynolds, TW, Staves, K, Shimekach, T, Wassie, A. (2017). Changes in community perspectives on the roles and rules of church forests in northern Ethiopia: Evidence from a panel survey of four Orthodox communities. *International Journal of the Commons*, 11(1): 355–387.
- Reynolds, TW, Collins, C, Wassie, A, Liang\*, J, Briggs\*, W, Adamu, E. (2017). Sacred natural sites as mensurative fragmentation experiments in long-inhabited multifunctional landscapes. *Ecography*, 40(1): 144–157.
- Anderson, CL, Reynolds, TW, Gugerty, MK. (2017). Husband and wife perspectives on farm household decision-making authority and evidence on intra-household accord in rural Tanzania. *World Development*, 90: 169–183.
- LoTempio\*, S, Reynolds, TW, Wassie, A, Abrahams\*, M, Bruesewitz, D, Wall\*, J. (2017). Ethiopian Orthodox church forests provide regulating and habitat services: evidence from stream sediment and aquatic insect analyses. *African Journal of Ecology*. 55(2): 247–251.
- Biscaye, PE, Reynolds, TW, Anderson, CL. (2017). Relative effectiveness of bilateral and multilateral aid on development outcomes. *Review of Development Economics*, 21(4): 1425–1447.

- Liang\*, J, Reynolds, TW, Wassie, A, Collins, C, Wubalem, A. (2016). Effects of exotic Eucalyptus spp. plantations on soil properties in and around sacred natural sites in the northern Ethiopian Highlands. *AIMS Agriculture and Food*, 1(2): 175–193.
- Reynolds, TW, Waddington, SR, Anderson, CL, Chew, A, True, Z, Cullen, A. (2015). Environmental impacts and constraints associated with the production of major food crops in Sub-Saharan Africa and South Asia. *Food Security*, 7(4): 795–822.
- McClenachan, L, O'Connor\*, G, Reynolds, TW. (2015). Adaptive capacity of co-management systems in the face of environmental change: The soft-shell clam fishery and invasive green crabs in Maine. *Marine Policy*, 52: 26–32.
- Reynolds, TW, Murray, B, Kolodinsky, J, Howell\*, J. (2015). Contrasting self-reported willingness to pay and demonstrated purchase behavior for energy-saving technologies in a small island developing state. *Energy for Sustainable Development*, 27: 18–27.
- Reynolds, TW. (2012). Institutional determinants of success among forestry-based carbon sequestration programs in Sub-Saharan Africa. *World Development*, 40(3):542–554.
- Reynolds, TW, Murray, B, Kolodinsky, J. (2012). Consumer preferences and willingness to pay for compact fluorescent lighting: Policy implications for energy efficiency promotion in Saint Lucia. *Energy Policy*, 41:712–722.
- Reynolds, TW, Bostrom, A, Read, D. (2011). Now what do people know about global climate change? Survey studies of educated laypeople. *Risk Analysis*, 30(10):1520–1538.
- Reynolds, TW, Huber, CH, Farley, J. (2010). Investing in human and natural capital: An alternative paradigm for sustainable development in Awassa, Ethiopia. *Ecological Economics*, 69(11):2140–2150.
- Kolodinsky, J, Reynolds, TW, Cannella, M, Timmons, D & Bromberg, D. (2009). U.S. consumer demand for restaurant calorie information: targeting demographic and behavioral segments in labeling initiatives. *American Journal of Health Promotion*, 24(1):11–14.
- Kolodinsky, J, Labrecque, J, Doyon, M, Oble, F, Bellavance, F, Marquis, M, Reynolds, TW. (2008). Sex and cultural differences in the acceptance of functional foods: A comparison of American, Canadian and French college students. *American Journal of College Health*, 57(2):143–149.
- Reynolds, TW, Murray\*, B, DeSisto, T, Kolodinsky, J. (2007). Energy efficiency in small island states: the 'island factor' in Saint Lucia. *International Journal of Consumer Studies*, 31(5):460–467.
- Kolodinsky, J, Harvey-Berino, JR, Berlin, L, Johnson, R, Reynolds, TW. (2007). Knowledge of current dietary guidelines and food choice of college students: Better eaters have higher knowledge of dietary guidance. *Journal of the American Dietetic Association*, 107(8):1409–1413.

## **REPORTS AND RESEARCH PAPERS**

(\*Denotes supervised student co-author)

### *Vermont Maple Policy Briefs*

- Reynolds, TW, McCracken, A. (2020). "Vermont Maple Consumption Trends 2020." Vermont Maple Policy Brief No. 3.
- Reynolds, TW, McCracken, A. (2020). "Vermont Maple Sector Insights from the 2019 and 2020 Vermonter Polls." Vermont Maple Policy Brief No. 2.
- Reynolds, TW, McCracken, A. (2019). "Vermont Maple Sector Insights from the 2019 Vermonter Poll." Vermont Maple Policy Brief No. 1.

*Evans School Policy Analysis and Research (EPAR) Reports*

Wineman, A, Anderson, CL, Reynolds, TW, et al. (2019). "A Case of Mistaken Identity? Measuring the Intended and Unintended Adoption of Improved Seed in Tanzania." EPAR Technical Report No. 363.

Anderson, CL, Reynolds, TW, Biscaye, P, et al. (2019). "Self Help Groups Prevalence and Coverage." EPAR Technical Report No. 362.

Anderson, CL, Reynolds, TW, Biscaye, P, et al. (2018). "Economic Growth and Poverty in Ethiopia." EPAR Technical Report No. 360.

Reynolds, TW, Anderson, CL, Biscaye, P, Coomes, D, et al. (2017). "Review of Long-Term Impacts of Cash Transfer Programs." EPAR Technical Report No. 359.

Reynolds, TW, Anderson, CL, Biscaye, P, et al. (2017). "Review of Land Tenure Technologies and Indicators." EPAR Technical Report No. 357.

Anderson, CL, Biscaye, P, Reynolds, TW. (2018). "Tracking Smallholder Farm Households." EPAR Technical Report No. 356.

Reynolds, TW, Anderson, CL, Biscaye, P, et al. (2018). "Impact of Regulations on Cash-In and Cash-Out Networks." EPAR Technical Report No. 355.

Wineman, A, Anderson, CL, Reynolds, TW, Biscaye, P. (2018). "Crop Yield Measurement on Multi-Cropped Plots." EPAR Technical Report No. 354.

Reynolds, TW, Klawitter, M, Anderson, CL, Biscaye, P, et al. (2017). "Review of Digital Credit Regulations in Selected Countries in Africa and Asia." EPAR Technical Report No. 351b.

Reynolds, TW, Klawitter, M, Anderson, CL, Biscaye, P, et al. (2017). "Review of Digital Credit Products in India, Kenya, Nigeria, Tanzania, and Uganda." EPAR Technical Report No. 351a.

Anderson, CL, Reynolds, TW, Biscaye, P, Wang, B, et al. (2017). "Aid and Economic Self-Sufficiency." EPAR Technical Report No. 349.

Anderson, CL, Reynolds, TW, Biscaye, P, et al. (2017). "Economic Benefits of Empowering Women in Agriculture: Assumptions and Evidence." EPAR Technical Report No. 347.

Anderson, CL, Reynolds, TW, Biscaye, et al. (2018). "Assessing Pharma's Constraints, Opportunities, and Investment Options in Global Health R&D: An Analysis of SEC 10-K Filings." EPAR Technical Report No. 346.

Anderson, CL, Reynolds, TW, Biscaye, P, et al. (2017). "Agricultural Public Expenditures: Ethiopia, Nigeria, Tanzania, and India. Comparison of Indicators across Data Sources." EPAR Technical Report No. 341.

Anderson, CL, Reynolds, TW, Biscaye, P, Callaway, K, et al. (2017). "Funding for Agricultural Research and Development Public Goods." EPAR Technical Report No. 339.

Anderson, CL, Reynolds, TW, Biscaye, P, Callaway, K, et al. (2017). "Policy and Economic Considerations for the Provision of Global Public Goods: Biomedical R&D." EPAR Technical Report No. 338.

Anderson, CL, Reynolds, TW, Biscaye, P, Merfeld, J, et al. (2016). "Relating Seasonal Hunger, Coping, and Prevention Strategies, and Household Nutrition: A Panel Analysis of Malawian Farm Households." EPAR Technical Report No. 337.



Reynolds, TW, Anderson, CL, Biscaye, P, et al. (2016). "Financial Pathways out of Poverty: Evidence from Bangladesh and Tanzania." EPAR Technical Report No. 333.

Anderson, CL, Reynolds, TW, Biscaye, P, Beetstra, M, et al. (2016). "Review of LSMS-ISA Research." EPAR Presentation No. 332.

Reynolds, TW, Anderson, CL, Biscaye, P, Aylward, C, et al. (2016). "Nigeria Economic Growth & Poverty." EPAR Technical Report No. 327.

Reynolds, TW, Anderson, CL, Biscaye, P, Beetstra, M, et al. (2017). "Maize Yield and Crop Area Allocation among Tanzanian Farmers." EPAR Technical Report No. 326.

Reynolds, TW, Anderson, CL, Biscaye, P, et al. (2017). "Digital Financial Services & Gender: An Analysis of Correlates of Awareness, Adoption, and Use." EPAR Technical Report No. 317.

Anderson, CL, Biscaye, P, Reynolds, TW, et al. (2016). "Review of Digital Financial Services Interoperability in Developing Countries." EPAR Technical Report No. 313.

Anderson, CL, Reynolds, TW, Biscaye, P, Panhorst-Harris, K, et al. (2016). "Maize Yield Trends and Agricultural Policy in East Africa." EPAR Technical Report No. 310.

Reynolds, TW, Anderson, CL, Biscaye, P, Clarke, J, et al. (2016). "Review of Human Development Indices." EPAR Technical Report No. 309.

Anderson, CL, Biscaye, P, Reynolds, TW, et al. (2016). "Review of National Identity Programs in Developing Countries." EPAR Technical Report No. 306.

Cullen, A, Reynolds, TW, Anderson, CL, Biscaye, P, et al. (2015). "Root, Tuber, and Banana Textural Traits: Review of Food Science and the Consumer Preferences Literature." EPAR Report No. 295.

Anderson, CL, Reynolds, TW, Slakie, E, et al. (2013). "Do Common Yield Estimates Misrepresent Smallholder Land Productivity?" EPAR Report No. 193.

#### *Evans School Policy Analysis and Research (EPAR) Briefing Papers*

Anderson, CL, Reynolds, TW, Biscaye, P, Chen, K, et al. (2017). *Estimating Crop Yields: Implications of Construction Decisions*. EPAR Brief No. 358.

Reynolds, TW, Anderson, C, et al. (2016). *Review of Global Public Goods*. EPAR Brief No. 325.

Panhorst-Harris, K, Reynolds, TW, Anderson, CL, Biscaye, P. (2016). *Measuring Productivity*. EPAR Brief No. 321.

Anderson, CL, Reynolds, TW, Biscaye, P, et al. (2016). *Measuring Aid*. EPAR Brief No. 320.

Reynolds, TW, Anderson, CL, et al. (2016). *Measuring Food Security*. EPAR Brief No. 319.

Anderson, CL, Reynolds, TW, Clarke, J, Biscaye, P. (2016). *Review of Time Use*. EPAR Brief No. 318.

Reynolds, TW, Anderson, CL, Biscaye, P, et al. (2016). *Pathways out of Poverty: Outcomes Associated with Poverty Alleviation in Developing Countries*. EPAR Brief No. 316.

Anderson, CL, Reynolds, TW, Biscaye, P, et al. (2015). *Review of Realized Yield Gains from Quality Seed and Improved Varieties*. EPAR Brief No. 312.

Reynolds, TW, Anderson, CL, Biscaye, P, et al. (2015). *Agribusiness Development Clusters, SEZs and Incubators: Lessons Learned for Smallholder-Focused Agricultural Development*. EPAR Brief No. 302.

Reynolds, TW, Anderson, CL, Panhorst-Harris, K, et al. (2015). *Cassava Bacterial Blight and Postharvest Physiological Deterioration: Production Losses and Controls*. EPAR Brief No. 298.

Biscaye, P, Reynolds, TW, Anderson, CL, Panhorst-Harris, K. (2015). *Relative Effectiveness of Bilateral and Multilateral Aid on Development and Social Outcomes*. EPAR Brief No. 294.

Reynolds, TW, Anderson, CL, Merfeld, J. (2014). *Social Sector Applications of Returnable Capital by Development Finance Institutions*. EPAR Brief No. 288.

Anderson, CL, Reynolds, TW, Slakie, E, et al. (2013). *Key Findings: Do Common Yield Estimates Misrepresent Smallholder Land Productivity?* EPAR Brief No. 252.

Environmental Impacts of Agriculture Series (2012-2014).

Reynolds, TW, Waddington, S, Anderson, CL, True, Z. (2014). *Overview of Crop-Environment Interactions in South Asia & Sub-Saharan Africa*. EPAR Brief No. 257.

Chew, A, Reynolds, TW, Waddington, S, Papanastassiou\*, N, Anderson, CL. (2013). *Sweetpotato/Yam and Environment in South Asia & Sub-Saharan Africa*. EPAR Brief No. 225.

Chew, A, Reynolds, TW, Waddington, S, Papanastassiou\*, N, Anderson, CL. (2013). *Agriculture-Environment Series: Maize Systems*. EPAR Brief No. 218.

Reynolds, TW, Slakie, E, Chew, A, Anderson, CL., et al. (2013). *Sorghum/Millet and Environment in South Asia & Sub-Saharan Africa*. EPAR Brief No. 213.

Chew, A, Reynolds, TW, Pandey, S, Anderson, CL., et al. (2013). *Agriculture-Environment Series: Rice Systems*. EPAR Brief No. 208.

Environmental Impacts of Livestock Series (2011).

Lipson, J, Reynolds, TW, Anderson, CL. (2011). *Environmental Impacts of Livestock: Water Buffalo*. EPAR Brief No. 158.

Lipson, J, Reynolds, TW, Anderson, CL. (2011). *Environmental Impacts of Livestock: Chickens*. EPAR Brief No. 157.

Lipson, J, Reynolds, TW, Anderson, CL. (2011). *Environmental Impacts of Livestock: Goats*. EPAR Brief No. 156.

Lipson, J, Reynolds, TW, Anderson, CL. (2011). *Environmental Impacts of Livestock: Cattle*. EPAR Brief No. 155.

Lipson, J, Stokes-Prindle, C, Reynolds, TW, et al. (2011). *Glyphosate-Tolerant Maize: Ex-Ante Impact Analysis for SSA, Kenya & Uganda*. EPAR Brief No. 148.

Derksen-Schrock, K, Paulsen, J, Pennington, A, Reynolds, TW, et al. (2011). *Tanzania Comparison and Analysis: LSMS and Farmer Focus Data*. EPAR Brief No. 140.

Reynolds, TW, Pennington, A, Paulsen, J, Anderson, CL. (2011). *Preliminary Analysis of Farmer Focus Data: Follow-up to the January 2011 Farmer Focus Convening*. EPAR Brief No. 139.

Holway, K, Pennington, A, Reynolds, TW, Gugerty, MK, Anderson, CL. (2011). *Economic Rationales for Bill & Melinda Gates Foundation Interventions: How and Why Markets are Imperfect for Agricultural Development*. EPAR Brief No. 122.

Pennington, A, Reynolds, TW, Gugerty, MK, Anderson, CL. (2010). *Investments in Public versus Private Goods: Characterizing the Bill & Melinda Gates Foundation Agricultural Development Portfolio*. EPAR Brief No. 122.

*Evans School Policy Analysis and Research (EPAR) Code, Data and Visualizations*

EPAR Agricultural Development Data Curation (publicly available data and code for agricultural development data analysis)

Alia, D, Anderson, CL, Reynolds, et al. (2018). "Year Over Year Smallholder Threshold Variability (Sub-Saharan Africa)." EPAR Data Visualization.

Alia, D, Anderson, CL, Reynolds, et al. (2018). "Implications of Definitions of Smallholder Farm Households." EPAR Data Visualization.

Anderson, CL, Reynolds, T, Biscaye, P, Chen, K, Coomes, D, Merfeld, J. (2017). "Estimating Crop Yield." [Stata .do files]. EPAR Technical Report [Code] No. 358.

Anderson, CL, Reynolds, TW, Biscaye, P, et al. (2017). "Changes in Public Sector Agriculture R&D Investment in Sub-Saharan Africa." EPAR Technical Report [Data Visualization] No. 339.

Biscaye, P, Anderson, CL, Reynolds, TW. (2017). "Tracking Smallholder Farm Households." EPAR Technical Report [Data Visualization] No. 356.

Anderson, CL, Klawitter, M, Reynolds, TW. (2017). "Digital Credit Products in India, Kenya, Nigeria, Tanzania, and Uganda." EPAR Technical Report [Data Visualization] No. 351a.

Reynolds, TW, Anderson, CL, Biscaye, P. (2017). "Awareness, Adoption, and Use of Mobile Money." EPAR Technical Report [Data Visualization] No. 317.

## **CONTRIBUTIONS TO EDITED VOLUMES**

(\*Denotes supervised student co-author)

Massey Marks, Ashley; Reynolds, Travis W.; Hamann, Sara; Wassie Eshete, Alemayehu; Lowman, Meg D.; Nogué, Sandra; Willis, Kathy J. and Bhagwat, Shonil A. (2022). "Ethiopian Orthodox Tewahedo Church Forests and Pollination Services across an Agricultural Landscape." In: Borde, Radhika; Ormaby, Alison A; Awoyemi, Stephen M and Gosler, Andrew G eds. *Religion and Nature Conservation: Global Case Studies*. Oxford, UK: Taylor and Francis.

Anderson, CL, Reynolds, TW. (2019). "Measurement choices with consequences." In *Agrobiodiversity Index Report 2019: Risk and Resilience*. Bioversity International: Rome.

Zebrowski\*, WM, Lacasse\*, HK, Otieno, G, Reynolds, TW, LaValle\*, N, Baker-Wacks\*, E, & Klein\*, E. (2018). "Social seed networks and climate change adaptation in East Africa." Policy Brief for Bioversity International.

Otieno, G, Lacasse\*, H, Adokorach, J, Mulumba, JW, Recha, JW, Reynolds, TW, & Fadda, C. (2018). "Social seed networks for climate change adaptation in Uganda: Strategies to improve access to genetic diversity and information." Policy Brief for Bioversity International Hoima Climate-Smart Villages Program.

Otieno, G, Lacasse\*, H, Fadda, C, Reynolds, TW, & Recha, JW. (2018). "Social seed networks for climate change adaptation in Western Kenya" Policy Brief for Bioversity International Nyando Climate-Smart Villages Program.

Otieno, G, López-Noriega, I, Reynolds, TW. (2016). "Smallholder access to quality and diverse seed in Uganda: Implications for food security." Policy Brief for Bioversity International.

Reynolds, TW, Sisay, TS, Lowman, M, Wassie, A. (2015). "Sacred natural sites provide ecological libraries for landscape restoration and institutional models for biodiversity conservation." Policy Brief for the 2015 U.N. Global Sustainable Development Report.

Gugerty, MK, Reynolds, TW. (2009). "Ethnicity and civil society." In *International Encyclopedia of Civil Society*, Anheier, H, Toepler, S (Eds.).

### **SELECTED PAPERS PRESENTED AT CONFERENCES AND SEMINARS**

(\*Denotes supervised student co-author; \*\*Denotes student presenter)

Makombore\*\*, L., Tobin, D., Reynolds, T.W. Revisiting the agrarian question: Does class differentiation or the household life cycle explain smallholder farming in sub-Saharan Africa? 86th Annual Meeting of the Rural Sociological Society, University of Wisconsin, 24 - 30 July 2024.

Schalkham\*, E., Reynolds, T.W. Consumer Willingness to Pay for Agroecologically and/or Locally Produced foods in Puerto Rico. 28<sup>th</sup> International Consortium on Applied Bioeconomy Research (ICABR), Ravello, Italy, 11-14 June 2024.

Aldaghlis\*\*, N., Reynolds, T.W., Tobin, D. Spatial Variation in Maternal Nutrition Status: Evidence from Uganda. 85th Annual Meeting of the Rural Sociological Society, University of Vermont, 2 - 6 August 2023.

Brouillard\*\*, H., Reynolds, T.W., Tobin, D. Drought Adaptation Strategies' Relationship to Food Security in Uganda. 85th Annual Meeting of the Rural Sociological Society, University of Vermont, 2 - 6 August 2023.

Eatchel\*\*, M., Reynolds, T.W., Tobin, D. Gendered Dimensions of Land Tenure and Their Relationship to Food Security: Evidence from Uganda. 85th Annual Meeting of the Rural Sociological Society, University of Vermont, 2 - 6 August 2023.

Jablonski\*\*, M., Reynolds, T.W., Tobin, D. Seed Sourcing and Crop Diversity in Uganda: Associations with Proximity to a Community Seed Bank. 85th Annual Meeting of the Rural Sociological Society, University of Vermont, 2 - 6 August 2023.

Keimach\*\*, A., Reynolds, T.W., Tobin, D. Farmers' Organizations in Uganda: Associations between Group Access and Participation with Food and Nutrition Security. 85th Annual Meeting of the Rural Sociological Society, University of Vermont, 2 - 6 August 2023.

King\*\*, J.A., Ekitela\*, E., Reynolds, T.W., Tobin, D. Examining Pastoralist Livelihood Resilience in Turkana County Kenya. 85th Annual Meeting of the Rural Sociological Society, University of Vermont, 2 - 6 August 2023.

Lam\*\*, V., Reynolds, T.W., Tobin, D. Gender and Conflict-Induced Migration Outcomes in Post-War Uganda. 85th Annual Meeting of the Rural Sociological Society, University of Vermont, 2 - 6 August 2023.

Lightner\*\*, L., Reynolds, T.W., Tobin, D. Post-Harvest Losses in Uganda: On and Off-farm Mitigation Strategies. 85th Annual Meeting of the Rural Sociological Society, University of Vermont, 2 - 6 August 2023.

Curtin\*\*, I.J.; Tobin, D., Reynolds, T.W. Does wealth explain inconsistent relationships between crop diversity and dietary diversity? Evidence from 10 sub-Saharan African Countries. International Consortium on Applied Bioeconomy Research (ICABR), Buenos Aires, Argentina, July 2023.

Reynolds, TW. (2020). "Leveraging big datasets for smallholder farmers: Crop choices, market access and dietary diversity across spatial scales," International Consortium on Applied Bioeconomy Research (ICABR), Virtual Conference, October 2020.

Giziew, A, Wubalem Nadew, A, Reynolds, TW. (2020). "Determinants of adoption of improved bread wheat technologies in East Amhara Region, Ethiopia," International Consortium on Applied Bioeconomy Research (ICABR), Virtual Conference, October 2020.

Rose\*\*, N, Reynolds, T, Kolodinsky, J. (2020). "Consumer use of food labels increases as "clean label" trend continues." Society for Nutrition Education and Behavior, Virtual Conference, July 2020.

Reynolds, TW. (2020). "'All-natural," "family-farmed," and other marketing mysteries: What's in a Vermont maple label?" Vermont Maple Conferences, Brattleboro, VT & Hyde Park, VT, January 2020.

Guo\*\*, J, Tobin, D, Reynolds, T. (2019). "Refugee seed systems in Vermont," Sustainability and Development Conference, Ann Arbor, MI, October 2019.

Reynolds, TW, Wall, J, Wassie Eshete, A. (2019). "Missing the trees for the forest: The socioecological significance of dispersed farmland trees in Northern Ethiopia," Sustainability and Development Conference, Ann Arbor, MI, October 2019.

Reynolds, TW, Anderson, CL, Alia, D, Biscaye, P, Merfeld, J. (2019). "Measurement considerations for prioritizing input use among smallholder farmers: Examples from Ethiopia and Tanzania," International Consortium on Applied Bioeconomy Research (ICABR), Ravello, Italy, June 2019.

Reynolds, TW (2018). "Ethiopian Orthodox Tewahido church forest locations and extent: Applications of a new dataset for remote sensing studies of Afromontane forest patches in Northern Ethiopia." Association for Tropical Biology and Conservation (ATBC) Annual Meeting. Kuching, Malaysia, July 2018.

Zebrowski\*\*, W, Ferguson\*, D, Reynolds, TW. (2018). "Sustained from within? Social and ecological drivers of expanding internal clearings in Ethiopian Orthodox church forests." Association for Tropical Biology and Conservation (ATBC) Annual Meeting. Kuching, Malaysia, July 2018.

Ferguson\*\*, D, Zebrowski\*, W, Reynolds, TW. (2018). "Growing pains: Expanding eucalyptus plantations in Ethiopia's Northern Highlands." Association for Tropical Biology and Conservation (ATBC) Annual Meeting. Kuching, Malaysia, July 2018.

MacKenzie\*\*, P, Reynolds, TW. (2018). "Differential pest damage of maize, teff, and horse beans by surrounding Afromontane forest cover in the Amhara Region of Ethiopia." Association for Tropical Biology and Conservation (ATBC) Annual Meeting. Kuching, Malaysia, July 2018.

Brown\*\*, K, Sisay, T, Lowman, M, Reynolds, TW. (2018). "Including women in the conservation conversation: Environmental degradation disproportionately impacts women's livelihoods in the Amhara Region of Northern Ethiopia." Conference of the International Society for Ecological Economics (ISEE). Puebla, Mexico, July 2018.

Hawkins-Johnson\*\*, K, Reynolds, TW. (2018). "For God and for country: Religious, economic, and institutional incentives for church forest conservation." Sustainability and Development Conference. Ann Arbor, MI, October 2018.

Anderson, CL, Reynolds, TW, Biscaye, P. (2018). "DNA fingerprinting and measuring the intended and unintended adoption of improved variety seed," International Consortium on Applied Bioeconomy Research (ICABR), Washington, DC, June 2018.

Anderson, CL, Reynolds, TW, Biscaye, P. (2018). "Temporal and geographic variation in support for agricultural R&D in low and middle income countries: Research funding for subsistence crops,

commodity grains, and cash crops from private, public, multilateral and philanthropic sources,” International Consortium on Applied Bioeconomy Research (ICABR), Washington, DC, June 2018.

Reynolds, TW, Anderson, CL, Biscaye, P. (2018). “A Household-level perspective on agricultural transformation: Evidence from Ethiopia, Nigeria, and Tanzania,” International Consortium on Applied Bioeconomy Research (ICABR), Washington, DC, June 2018.

Reynolds, TW, Wassie, A, Zebrowski\*, W. (2018). “Ethiopian Orthodox Tewahido church forest locations and extent: A new dataset for remote sensing studies of sacred natural sites in northern Ethiopia,” International Society of Tropical Foresters (ISTF), Yale University, CT, February 2018.

Ferguson\*\*, D, Reynolds, TW, Wassie, A. (2018). “Growing pains: Expanding eucalyptus plantations in Ethiopia’s northern highlands,” International Society of Tropical Foresters (ISTF), Yale University, CT, February 2018.

Yoelin\*\*, A, Reynolds, TW, Wassie, A. (2018). “Economic valuation of selected ecosystem services provided by church forests in northern Ethiopia,” International Society of Tropical Foresters (ISTF), Yale University, CT, February 2018.

Anderson, CL, Reynolds, TW, Biscaye, P. (2017). “Policy and economic considerations for global public goods provision: Agricultural R&D funding from the public, private, and philanthropic sectors,” International Consortium on Applied Bioeconomy Research (ICABR), Rome, Italy, September 2017.

Baker-Wacks\*, E, Klein\*, E, Lacasse\*, H, Reynolds, TW. (2017). “Farmer seed networks and climate change adaptation in East Africa,” Association of Environmental Studies and Sciences (AESS), Tucson, AZ, June 2017.

Zebrowski\*\*, W, Reynolds, TW, Lee\*, D, Caspi\*, T, Wassie, A, Bruesewitz, D. (2017). “Consumed from within: Social and ecological drivers of expanding internal clearings in Ethiopian Orthodox church forests from 1960 to present,” Association of Environmental Studies and Sciences (AESS), Tucson, AZ, June 2017.

Reynolds, TW, Wall, J, Fisher\*\*, E, Abame\*, A, Wassie, A, Wubalem, A. (2017). “Ecological and socioeconomic drivers of scattered tree abundance and richness in farmland surrounding church forests in Ethiopia,” Association of Environmental Studies and Sciences (AESS), Tucson, AZ, June 2017.

Bruesewitz, D, Kim\*, B, Zebrowski\*, W, Lee\*, D, Garner\*, T, Wright\*, M, Lowman, M, Wassie, A, Reynolds, TW. (2017). “Examining the role of Ethiopian Orthodox church forests in preserving stream ecosystem function and water quality.” Society for Freshwater Sciences (SFS). Raleigh, NC, June 2017.

Reynolds, TW [Session Leader]. (2017). “The Bioeconomy and development in Sub-Saharan Africa.” International Consortium on Applied Bioeconomy Research (ICABR), Berkeley, CA, May 2017.

Anderson, CL, Reynolds, TW, Biscaye, P. (2017). “Policy and economic considerations for global public goods provision: agriculture and health R&D for economic development,” International Consortium on Applied Bioeconomy Research (ICABR), Berkeley, CA, May 2017.

Reynolds, TW, Anderson, CL, Biscaye, P, Beetstra, M, Panhorsst-Harris, K. (2017). “Land productivity, crop choice and the bioeconomy in Sub-Saharan Africa: productivity gains and cropland allocation shifts at the extensive and intensive margins,” International Consortium on Applied Bioeconomy Research (ICABR), Berkeley, CA, May 2017.

Reynolds, TW, Anderson, CL, Biscaye, P, Panhorst-Harris, K, Beestra, M. (2016). "Making exploratory data analysis more accessible through interactive visualization," Global Open Data Network (GODAN) Summit, New York, NY, September 2016.

Reynolds, TW, Anderson, CL, Biscaye, P. (2016). "Policy and economic considerations for global public goods provision in agriculture in Sub Saharan Africa and South Asia," International Consortium on Applied Bioeconomy Research (ICABR), Ravello, Italy, June 2016.

Otieno, G, Noriega-Lopez, I, Reynolds, TW, Currier\*, T, Karasapan\*, A. (2016). "Implications of seed policies for agro-biodiversity, informal seed systems, and food security in Ethiopia and Uganda," International Consortium on Applied Bioeconomy Research (ICABR), Ravello, Italy, June 2016.

Reynolds, TW, Anderson, CL, Biscaye, P. (2016). "Considerations for global public goods provision in agriculture and health in developing countries," Association for Public Policy Analysis & Management (APPAM), London, UK, June 2016.

Anderson, CL, Reynolds, TW, Biscaye, P, Merfeld, J. (2016). "Relating seasonal hunger, coping and prevention strategies, and household nutrition: A panel analysis of Malawian farm households," Association for Public Policy Analysis & Management (APPAM), London, UK, June 2016.

Anderson, CL, Reynolds, TW. (2016). "Polygamous households and intrahousehold bargaining: Evidence and policy implications from Mali and Tanzania," Association for Public Policy Analysis & Management (APPAM), London, UK, June 2016.

Reynolds, TW. (2016). "Orthodox church forests' ecological and institutional contributions to landscape conservation in northern Ethiopia," Association for Environmental Studies and Sciences (AESS), Washington, D.C., June 2016.

Currier\*\*, T.A., Karasapan\*\*, A., Reynolds, TW. (2016). "Implications of seed policies for on-farm agro-biodiversity and food security in Ethiopia and Uganda," Association for Environmental Studies and Sciences (AESS), Washington, D.C., June 2016.

Clemens\*\*, M, Heisler\*\*, A, Reynolds, TW. (2016). "Cultivating conservation in the Lake Tana Basin: Implications of a UNESCO Biosphere Reserve for ecosystems and livelihoods." Society for Human Ecology (SHE), Santa Ana, CA, April 2016.

Olacio\*\*, R, Reynolds, TW, Collins, C, Wassie, A. (2016). "Holy springs and ecosystem services: Sacred forests may help mitigate the impacts of riparian deforestation in Amhara, Ethiopia." Society for Human Ecology (SHE), Santa Ana, CA, April 2016.

Reynolds, TW, Anderson, CL, Slakie, E. (2015). "Common crop yield measures misrepresent productivity among smallholder farmers: implications for women, sustainability and development." International Conference of Agricultural Economists (ICAE), Milan, Italy, August 2015.

Kolodinsky, J, Reynolds, TW. (2015). "Influences on citizen support/opposition for controversial food system policy initiatives." Agricultural & Applied Economics Association (AAEA), Naples, Italy, March 2015.

Kolodinsky, J, Reynolds, TW. (2014). "All around the (genetically-modified) mulberry bush: Information-seeking and consumer preferences for genetically modified food labeling in Vermont." Agricultural & Applied Economics Association (AAEA), Minneapolis, MN, July 2014.

Reynolds, TW [Session Leader]. (2014). "Community forest governance in a globalizing world: Opportunities and challenges in rural Africa." Association for Environmental Studies and Sciences (AESS), Pace University, NY, June 2014.

Abrahams\*\*, M. Colby College: "Economic and environmental implications of non-timber forest products: A study of shea (*Vitellaria paradoxa* ssp. *nilotica*) in Gambella, Ethiopia."

Evangelides\*\*, E. Colby College: "Landscape-scale and community-scale analyses of church forest conservation in South Gondar, Ethiopia."

Wall\*\*, J. Colby College: "Competing preservationist and utilitarian perspectives on church forests in Amhara, Ethiopia: Evidence from social and ecological surveys."

Reynolds, TW. Colby College: "Does third-party certification change international conservation practices? An event history analysis of environmental and social goal attainment in The International Small Group and Tree Planting Program (TIST) in East Africa."

Reynolds, TW, Wassie-Eshete, A, Holmes\*, S, Lowman, M. (2013). "The role of the Ethiopian Orthodox Church in forest preservation in South Gondar, Ethiopia." Association for Tropical Biodiversity Conservation (ATBC) and Organization for Tropical Studies (OTS) 50<sup>th</sup> Anniversary Meeting, San José, Costa Rica, June 2013.

Reynolds, TW, Wall\*, J. (2013). "Just say maybe to drugs? The economic and environmental implications of khat production in rural Ethiopia." United States Society for Ecological Economics (USSEE) Conference, Burlington, VT, June 2013.

Reynolds, TW, Wall\*, J., Evangelides\*, E. (2013). "Land cover change and religious norms: how the Ethiopian Orthodox Church protects forests in South Gondar, Ethiopia." United States Society for Ecological Economics (USSEE) Conference, Burlington, VT, June 2013.

Reynolds, TW, Hatch\*, N, Wells\*, L, Reynolds, TW. (2013). "A rose with any other label wouldn't smell as sweet: Eco-labeling and environmental governance in the Ethiopian floriculture sector." Association for Environmental Studies and Sciences (AESS) Annual Meeting, Pittsburgh, PA, June 2013.

Reynolds, TW, Holmes\*, S, Evangelides\*, E, Wassie-Eshete, A. (2013). "From sacred grove to farm field: new and continuing threats to church forests in rural Ethiopia." Association for Environmental Studies and Sciences (AESS) Annual Meeting, Pittsburgh, PA, June 2013.

Nyhus, P, Cole, FR, Homeier\*, D, Sarkar, S, Teachey\*, N, Reynolds, TW, Dissanayake, S, Bevier, C, King, DW. (2012). "Cameras, satellites and surveys: A multi-platform approach to monitoring lake conservation practice." 32<sup>nd</sup> International Symposium of the North American Lake Management Society, Madison, WI, September 2012.

Anderson, CL, Reynolds, TW, Gugerty, MK. (2012). "Spousal accord and farm decision-making in Tanzania and Mali." Agricultural & Applied Economics Association (AAEA), Seattle, WA, August 2012.

Reynolds, TW, Anderson, CL. (2012). "Is there a minimum required landholding for food and nutritional self-sufficiency?" Agricultural & Applied Economics Association (AAEA), Seattle, WA, August 2012.

Reynolds, TW. (2012). "Transparency & accountability in international carbon markets: Carbon forestry in Africa." International Studies Association (ISA), San Diego, CA, April 2012.

Additional Panel (Chair): *Political Economy of Global Agriculture and Food Supplies*.

Additional Panel (Discussant): *Biodiversity: Sharks, Elephants, and Everything in Between*.



Reynolds, TW. (2011). "Governing the global commons: Identifying and evaluating collaborative processes in international carbon forestry programs." 6<sup>th</sup> Biennial Conference of the United States Society for Ecological Economics (USSEE), Michigan State University, East Lansing, MI, June 2011.

Gugerty MK, Reynolds, TW. (2011). "Certification and standard-setting among nonprofits and NGOs: Theory and evidence. USC Center on Philanthropy and Public Policy Nonprofit Research Seminar Series, University of Southern California, Los Angeles, CA, December 2011.

Reynolds, TW, Gugerty MK. (2011). "Collective action and the emergence of private governance and self-regulation among NGOs: Evidence from Africa. International Studies Association (ISA) Annual Convention, Montreal, Canada, March 2011.

Reynolds, TW, Gugerty MK. (2010). "Evaluating the strength of nonprofit regulation and certification programs." Northwest Nonprofit Data Conference, Portland State University, Portland, OR, April 2010.

Reynolds, TW. (2010). "Collaborative processes in international carbon forestry schemes." Consortium on Collaborative Governance (CCG) Mini-Conference, University of Southern California, Los Angeles, CA, April 2010.

Reynolds, TW. (2009). "Communicating sustainability in the face of global climate change: A mental models approach. 8th Biennial Conference of the Canadian Society for Ecological Economics (CANSEE), Vancouver Convention Center, Vancouver, B.C., Canada, October 2009.

Reynolds, TW. (2009). "Institutional determinants of success among forestry-based carbon sequestration projects in Sub-Saharan Africa." 5<sup>th</sup> Biennial Conference of the United States Society for Ecological Economics (USSEE), The American University, Washington, D.C., June 2009.

Reynolds, TW. (2008). "International reforestation strategies: Funding local initiatives through carbon sequestration payments." University of Washington Graduate Research Symposium, University of Washington, Seattle, WA, April 2008.

Reynolds, TW. (2007). "Investing in human and natural capital: An alternative paradigm for sustainable development." 4<sup>th</sup> Biennial Conference of the United States Society for Ecological Economics (USSEE), Pace University, NY, July 2007.

Reynolds, TW, Kerchner, C. (2006). "Insights into the equitable financing of watershed projects." Presented by Dr. Joshua Farley to the US Environmental Protection Agency (EPA), Washington, D.C., March 2006.

## **GRADUATE MENTORSHIP**

### *Primary Advisor*

- Awolich, Abraham. (Ph.D. Sustainable Development Policy, Economics and Governance) (in progress). Topic: Rural Community Development and Governance in South Sudan. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- Ale, Victoria. (M.S. CDAE.) (in progress). Topic: Sustainability and Empowerment in Agricultural Value Chains. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- Mooney, Ray. (M.S. CDAE.) (in progress). Topic: Economics of Sustainable Grazing Management. Community Development and Applied Economics. University of Vermont, Burlington, VT.

- Aremu, Toyib. (Ph.D. Sustainable Development Policy, Economics and Governance) (in progress). Topic: Agricultural Extension in Rural Nigeria. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- Ekitela, Esther. (Ph.D. Sustainable Development Policy, Economics and Governance) (in progress). Topic: Pastoralist Livelihoods in Northern Kenya. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- Pitawala, Dimagi. (M.S. CDAE.) (in progress). Topic: Technology Adoption among Vermont Maple and Livestock Producers. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- Schalkham, Emily. (M.S. CDAE.) (in progress). Topic: Climate Change Adaptations among Small-scale Farm Producers in East Africa. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- Saunders, Michelle. (M.S. CDAE.) (2023). Topic: Gender, Crop Diversity, and Livelihoods in East Africa. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- Barrett, Sarah. (M.S. CDAE.) (in progress). Topic: Intra-household Gender Dynamics in Rural Farm Households in Vermont. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- McCracken, Aidan (Conor). (M.S. CDAE.) (2020). Topic: Climate Change Risk Perception and Adaptation in the Vermont Maple Sector. Community Development and Applied Economics. University of Vermont, Burlington, VT.

*Graduate Student Committee Member*

- Marchessault, Anna. (M.S. Food Systems.) (in progress). Topic: Food Assistance Programs in New England in the Post-Covid-19 Era. Food Systems. University of Vermont, Burlington, VT.
- Burke, Sarah. (M.S. CDAE) (in progress). Topic: Barriers to Cultivating Culturally Meaningful Crops. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- Donovan, Chris. (M.S. CDAE) (in progress). Topic: Climate Change Risk Perception in the United States. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- Larson, Jolyon. (Ph.D. Rubenstein School of Environment and Natural Resources) (in progress). Topic: “Good” Governance and Environmental Conflicts. Rubenstein School of Environment and Natural Resources. University of Vermont, Burlington, VT.
- Cohen, Jamie. (M.S. Food Systems.) (2024). Topic: Eco-labels in the Vermont Maple Sector. Food Systems. University of Vermont, Burlington, VT.
- Fischer, Claire. (M.S. Food Systems.) (2024). Topic: Culturally Meaningful Seed Access through Formal and Informal Seed Systems. Food Systems. University of Vermont, Burlington, VT.
- Isbell, Carina. (M.S. CDAE) (2023). Topic: Diversity and Values in Informal Seed Systems. Community Development and Applied Economics. University of Vermont, Burlington, VT.
- Dube, Benjamin. (Ph.D. Ecological Economics) (2022). Topic: Definition and Institutionalization of Sustainable Agriculture Movements – Agroecology and Organic. Gund Institute for Environment. University of Vermont, Burlington, VT.

Cunningham, Naomi. (M.S. CDAE) (2022). Topic: Anchor Institutions and Resilience – Linking Hospitals in Local Food Systems. Community Development and Applied Economics. University of Vermont, Burlington, VT.

Lacasse, Hannah. (M.S. CDAE.) (2022). Topic: Opportunities for the Hemp Sector in Vermont. Community Development and Applied Economics. University of Vermont, Burlington, VT.

Quella, Lindsay. (M.S. CDAE.) (2022). Topic: Motivations and Goals of US Agritourism Operators. Community Development and Applied Economics. University of Vermont, Burlington, VT.

Jalleb, Tarek. (M.S. CDAE.) (in progress). Topic: Income and Food Consumption Trends in Tunisia. Community Development and Applied Economics. University of Vermont, Burlington, VT.

Daigle, Kerry. (M.S. CDAE.) (2020). Topic: Resilience Communication and Women Farmers in the US. Community Development and Applied Economics. University of Vermont, Burlington, VT.

Guo, June. (M.S. CDAE.) (2020). Topic: Seed Systems among New American Farmers in Burlington. Community Development and Applied Economics. University of Vermont, Burlington, VT.

Ball, Will. (M.S. Food Systems.) (2020). Topic: Perishable Food and the Vermont Food Bank. Food Systems. University of Vermont, Burlington, VT.

Mellaku, Meselu. (MSc Natural Resource Economics and Policy) (2014) “Linear Programming and Land Use Allocation in Southwestern Ethiopia”. Wondo Genet College of Forestry and Natural Resources, Hawassa University, Hawassa, Ethiopia.

#### **RECENT SCHOLARLY SERVICE ACTIVITIES**

*2021 – present.* Director, Master of Public Administration Program, University of Vermont.

*2021 – present.* Diversity Committee, Gund Institute for Environment. University of Vermont.

*2021 – present.* Communications Committee, International Consortium for Applied Bioeconomy Research (ICABR). University of Rome, Rome, Italy.

*2018 – present.* Public Policy PhD Program Committee. Department of Community Development and Applied Economics, University of Vermont.

*2018 – present.* Director, Peace Corps Prep Program. Department of Community Development and Applied Economics, University of Vermont.

*2018 – present.* Director, Peace Corps Coverdell Program. Department of Community Development and Applied Economics, University of Vermont.

*2019 – 2021.* Diversity Curriculum Review Committee. College of Agricultural and Life Sciences, University of Vermont.

*2017 – 2021.* Board Member, International Consortium for Applied Bioeconomy Research (ICABR). University of Rome, Rome, Italy.

*2017 – 2018.* President, Phi Beta Kappa, Beta Chapter of Maine, Colby College.

*2017 – 2018.* Planning Committee, Oak Institute for International Human Rights, Colby College.

*2013 – 2018.* Steering committee for the Colby Liberal Arts Symposium (CLAS) at Colby College, dedicated to showcasing Colby undergraduate student research.

*2015 – 2017.* Budget Committee, Interdisciplinary Studies Division (IDS) Representative.

*2016 – 2017.* Membership Committee Chair, Phi Beta Kappa, Beta Chapter of Maine, Colby College.

2015 – 2016. Service on the Global Colby Task Force at Colby College.

2015 – 2016. Search committee: Professor of Ecology, Colby College Environmental Studies Program.

2013 – 2014. Steering committee for the Colby College Environmental Studies Program's second Distinguished Fellow in Environmental Studies: Frances Moore Lappé (renowned food activist and author of *Diet for a Small Planet* and *Hunger: 12 Myths*.)

Reviewer for Rapid Response to Novel Coronavirus (SARS-CoV-2) Impacts Across Food and Agricultural Systems, USDA National Institute of Food and Agriculture (NIFA) Agriculture and Food Research Initiative (AFRI) Competitive Grants Program (2020).

NSF Review Panel for Social, Behavioral and Economic Sciences Division SBE Postdoctoral Research Fellowships (SPRF) Program (2X, 2017-2019).

NSF Review Panel for Research Experiences for Undergraduates (REU) Sites, SBE Division (3X, 2014-2017).

Reviewer for the Social Sciences and Humanities Research Council of Canada (2019).

Reviewer for: *World Development*, *Review of Development Economics*, *Ecological Economics*, *Current Opinions in Sustainability*, *Environment and Behavior*, *International Journal of the Commons*, *International Journal of Biodiversity and Conservation*, *Journal of Public Administration Research and Theory*, *Weather, Climate & Society*, *Climatic Change*, *Land Use Policy*, *Land, Sage Open*, *Applied Geography*, *Feminist Economics*, *Journal of Gender Studies*, *Food Security*, *Food Policy*, *Agriculture, Sustainability*, *Journal of Poverty and Social Justice*

## **SOCIETIES**

Association for Public Policy and Management (APPAM)

International Consortium for Applied Bioeconomy Research (ICABR)

United States Society for Ecological Economics (USSEE)

International Association of Agricultural Economists (IAAE)

Association for Environmental Studies & Sciences (AESS)

## **PERSONAL DATA**

### **LANGUAGES:**

English: maternal

French: fluent

Pulaar: some (spoken)

Spanish: proficient

Latin, Portuguese: familiar

- Vermont driver's license with motorcycle endorsement
- Computer skills: mastery of basic word processing (MS Word), spreadsheet (MS Excel), internet programs (Explorer, Safari, Firefox, Chrome) and statistical software packages (Stata, R, SPSS, LimDep, Minitab, LISREL). Expertise in geospatial data analysis (ArcMap, QGIS). Familiarity with both PC and Macintosh operating systems.
- Interests: International and community development, community-based natural resource management, food policy, food security, sustainable agriculture, agro-forestry, human capital, social capital.