

Matthew A. Schnurr

Associate Professor, Department of International Development Studies ♦ Dalhousie University
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matthew.schnurr@dal.ca

EDUCATION

- 2002-2008 University of British Columbia, Vancouver, BC
Department of Geography, Ph.D. Program
Dissertation Title: *Lowveld cotton: A political ecology of agricultural failure in Natal and Zululand, 1844-1948.*
- 2001-2002 School of Oriental and African Studies, University of London, London, UK
Department of Geography, M.A. in Environment and Development
Dissertation Title: *Knowledge appropriation: An historical re-examination of the Eurocentric model of botanical science in colonial India.*
- 1997-2001 Queen's University, Kingston, ON
Department of Biology, B.Sc. (Hon), First Class Degree

RESEARCH AND TEACHING INTERESTS

I am an environmental geographer with research and teaching interests in environment and development, political ecology, agricultural biotechnology, farmer decision-making and environmental justice. My regional interests are in east and southern Africa.

RESEARCH GRANTS

- 2015-2017 Dalhousie University Centre for Learning and Teaching Grant (\$5000) [PI]
2014-2016 SSHRC Connections Grant (\$42 105 + \$35 000 from Genome Canada) [PI]
2013-2019 SSHRC Partnership Grant (\$2.4 million) [collaborator]
2012-2015 SSHRC Insight Development Grant (\$53 109) [PI]
2012-2015 John Templeton Foundation Big Questions Grant (\$142 805) [PI]
2012-2013 Dalhousie University Centre for Teaching and Learning Services: Teaching with Technology Grant (\$5 000) [PI]
2011-2013 Dalhousie University Research Development Fund (\$3 500) [PI]
2010-2012 Dalhousie University Centre for Teaching and Learning Services: Teaching with Technology Grant (\$1 675) [PI]
2009-2010 Department of National Defence Special Project Funding (\$7 000) [PI]
2009-2011 Dalhousie University Research Development Fund (\$3 500) [PI]

ACADEMIC AWARDS AND HONOURS

- 2016 Faculty of Arts and Social Science Burgess Research Award (course release valued at \$6000)
2015 Dalhousie University's Early Career Faculty Award of Excellence for Teaching (\$1000)
2015 Dalhousie University's Academic Innovation Award (\$2000)
2014 Canadian Association of Geographers' Julian M. Szeicz Award for Early Career Achievement

- 2007 McGill University Department of History Travel Award (\$500)
 2005 Institute of British Geographers Annual Conference Travel Award (\$600)
 2003-2006 SSHRC Doctoral Fellowship (\$58 500)
 2003 Teaching Assistant of the Year Award, Department of Geography, University of British Columbia (\$500)
 2002-2003 Graduate Entrance Scholarship, University of British Columbia (\$10 000)
 2002 Distinction, M.A. in Environment and Development, University of London

PEER-REVIEWED ARTICLES

Dowd-Uribe, B. and **Schnurr, M.A.** (In Press) Burkina Faso's reversal on Genetically Modified crops and the implications for Africa. *African Affairs*. DOI: 10.1093/afraf/adv063

Addison, L. and **Schnurr, M.A.** (2015) Growing burdens: Disease-resistant Genetically Modified banana and the gendered implications for labour in Uganda. *Agriculture and Human Values*. DOI: 10.1007/s10460-015-9655-2

Schnurr, M.A. (2015) GMO 2.0: Genetically Modified crops and the push towards Africa's Green Revolution. *Canadian Food Studies*, 2(2): 201-208.

Schnurr, M.A. De Santo, E., Green, A. and Taylor, A. (2015) Investigating student perceptions of learning within a role-play simulation of the Convention on Biological Diversity. *Journal of Geography*, 114(3): 94-107.

Schnurr, M.A. and Gore, C. (2015) Getting to 'yes': Governing Genetically Modified crops in Uganda. *Journal of International Development*, 27: 55-72.

Jones, K., **Schnurr, M.A.** Carr, E., and Moseley, W. (2015) Should I stay or should I go? Incorporating a commitment to fieldwork throughout an academic career. *African Geographical Review*, 34(1): 55-68.

Moseley, W.G., **Schnurr, M.A.** and Bezner-Kerr, R. (2015) Interrogating the (neoliberal) agenda for agricultural development and hunger alleviation in Africa. *African Geographical Review*, 34(1): 1-7.

Schnurr, M.A. and Mujabi-Mujuzi, S. (2014) 'No one asks for a meal they've never eaten'; Or, do African farmers want Genetically Modified crops? *Agriculture and Human Values*, 31(4): 643-648.

Schnurr, M.A. De Santo, E. and Green, A. (2014) What do students learn from a role-play simulation of an international negotiation? *Journal of Geography in Higher Education*, 38(3): 401-414.

Schnurr, M.A. (2013) Bio-hegemony and biotechnology in Uganda: Unraveling the strategies used to promote Genetically Modified crops into new African market. *Journal of Peasant Studies*, 40(4), 639-658.

Meer, T. and **Schnurr, M.A.** (2013) The community versus community-based natural resource management: The case of Ndumo game reserve, South Africa. *Canadian Journal of Development Studies*, 34(4), 482-497.

Schnurr, M.A. (2013) Cotton as calamitous commodity: The politics of agricultural failure in Natal and Zululand, 1844-1938. *Canadian Journal of African Studies*, 47(1), 115-132.

Schnurr, M.A. De Santo, E. and Craig, R. (2013) Using a blended learning approach to simulate the negotiation of a multilateral environmental agreement. *International Studies Perspectives*. 14, 109-129.

Schnurr, M.A. (2012). Inventing Makhathini: Creating a prototype for the dissemination of Genetically Modified crops into Africa. *Geoforum*, 43(2), 784-792.

Schnurr, M.A. (2011). The boom and bust of Zululand cotton, 1910-1933. *Journal of Southern African Studies*, 31(1), 119-134.

Schnurr, M.A. (2011). Breeding for insect-resistant cotton across imperial networks, 1924-1950. *Journal of Historical Geography*, 37(2): 223-231.

Schnurr, M.A. (2009). Commodity cropping and the delineation of agricultural space in Natal, 1850–1863. *South African Historical Journal*, 61, 138-157.

Witt, H., Patel, R. and **Schnurr, M.A.** (2006). Can the poor help Genetically Modified crops? Technology, representation, and cotton in the Makhathini Flats, South Africa. *Review of African Political Economy*, 33, 497-513.

PEER-REVIEWED BOOK

Schnurr, M.A. and Swatuk, L.A., eds. (2012) *Natural Resources and Social Conflict: Towards Critical Environmental Security*. London: Palgrave Macmillan.

PEER-REVIEWED CHAPTERS IN EDITED BOOKS

Schnurr, M.A., Mujabi-Mujuzi, S., Miiro, T., and Addison, L. (2015) Can Genetically Modified crops help African farmers? Insights from Uganda. In: *Analyses: Africa's Future... Can Biosciences Contribute?* Cambridge: Lavenham Press, 28-36.

Schnurr, M.A. and Swatuk, L.A., (2012) 'Towards critical environmental security'. In: Schnurr, M.A. and Swatuk, L.A., eds. *Natural Resources and Social Conflict: Towards Critical Environmental Security*. London: Palgrave Macmillan, 1-15.

Schnurr, M.A. (2010). 'Resource curse' and 'Deep ecology'. In: Mulvaney, D., ed *Green Politics: An A-Z Guide* (London: SAGE Publications).

PEER-REVIEWED PUBLICATIONS UNDER REVIEW

Schnurr, M.A. and Addison, L. Which variables influence farmer adoption of Genetically Modified (GM) orphan crops? Measuring attitudes and intentions to adopt GM *matooke* banana in Uganda (Under Review)

OTHER PUBLICATIONS

Addison, L. and Schnurr, M.A. (In Press) Introduction to symposium on labor, gender and new sources of agrarian change. *Agriculture and Human Values*.

Dowd-Uribe, B., Glover, D., and **Schnurr, M.A.** (2014) Seeds and places: The geographies of transgenic crops in the global south. *Geoforum* 53: 145-148.

Schnurr, M.A. and Swatuk, L.A. eds. (2010) Critical environmental security: Rethinking the links between natural resources and political violence. *New Issues in Security Series #5* (Halifax: Centre for Foreign Policy Studies).

CONFERENCE PRESENTATIONS

Schnurr, M.A. and Addison, L. (2014) Which variables influence farmer adoption of Genetically Modified ‘orphan’ crops? Annual Meeting of the Canadian Association of Geographers. St. Catharines, ON. May 2014.

Addison, L. and **Schnurr, M.A.** (2014) Genetically Modified *matooke* and the gendered labour process in Uganda. Annual Meeting of the Association of American Geographers. Tampa, FL. April 2014.

Schnurr, M.A. Evaluating the suitability and sustainability of Genetically Modified crops for rural African farmers. Regional Conference of the International Geographical Union. Kyoto, Japan. August 2013.

Green, A., **Schnurr, M.A.** and De Santo, E. A role-play simulation of a Multilateral Environmental Agreement helps students to appreciate the real-world complexity of international negotiation. Internationalizing Teaching and Learning in a Global Context. Halifax, NS. April 2013.

Schnurr, M.A. and Gore, C. Getting to ‘yes’: The evolution of biotechnology regulation in Uganda. Annual Meeting of the Association of American Geographers. Los Angeles, CA. April 2013.

Schnurr, M.A. Who is behind Africa’s Green Revolution? Unraveling the strategies used to promote genetically engineered crops in Uganda. Annual Meeting of the Association of American Geographers. New York, NY. February 2012.

Schnurr, M.A. Using a blended learning approach to simulate the negotiation of multi-lateral environmental agreements. Annual Meeting of the Canadian Association for the Study of International Development. Fredericton, NB. May 2011.

Craig, R., **Schnurr, M.A.** and De Santo, E. Simulation and sustainability-readiness: Leveraging e-Learning technology for real-world impact. Partnerships in Learning Conference. Halifax, NS. April 2011.

Schnurr, M.A. The 'final frontier' for transgenic crops: Ugandan experiences with bio-hegemony and Bt cotton. Annual Meeting of the International Studies Association. Montreal, QC. March 2011.

Schnurr, M.A. The significance of South African success for Africa's Green Revolution. Annual Meeting of the Canadian Association for the Study of International Development. Montreal, QC. May 2010.

Schnurr, M.A. Inventing Makhathini: Creating a prototype for the dissemination of Genetically Modified crops into Africa. Global Goods Conference. Rutgers, NJ. April 2009.

Schnurr, M.A. Breeding for insect resistance at Barberton, South Africa, 1926-1948. Conference on Science, Technology, and the Environment in Africa. Austin, TX. March 2009.

Schnurr, M.A. The failure of forced Zulu cotton cultivation in Natal, 1855-1862. North East Conference of British Studies. Halifax, NS. October 2007.

Schnurr, M.A. Cotton colonialism: Importing varieties and settlers into eastern South Africa, 1848-1851. Quelques Arpents de Neige Conference. Kingston, ON. May 2006.

Schnurr, M.A. Theophilus Shepstone's plan for African cotton cultivation in Natal, South Africa 1858-1861. Annual Meeting of the Association of American Geographers. Chicago, IL. March 2006.

Schnurr, M.A. Creating an ideal space for the introduction of Genetically Modified cotton to the developing world. Annual Meeting of the Institute of British Geographers. London, UK. August 2005.

Schnurr, M.A. Strange bedfellows: Using Genetically Modified rapeseed, eco-Marxism and ANT to elaborate a geography of biotechnology. Annual Meeting of the Association of American Geographers. Philadelphia, PA. March 2004.

Schnurr, M.A. Knowledge appropriation: A historical reexamination of the Eurocentric model of botanical science in colonial India. Annual Meeting of the Canadian Association of Geographers. Victoria, BC. May 2003.

PEER-REVIEWER

Review of Policy Research, Undercurrents, Journal of Peasant Studies (x4), Journal of Rural and Community Development, Geoforum, Journal of Agricultural Extension and Rural Development, Critical Studies on Security, Agriculture and Human Values, African Geographical Review, Journal of British Studies, International Political Sociology, Water

Alternatives, Palgrave MacMillan, Economic and Social Research Council Knowledge Opportunity Grant (UK), John Templeton Foundation Grants (x2), SSHRC Insight Grant Competition (2012), SSHRC Insight Development Grant Adjudication Committee (2013 & 2014), University of Toronto Press

INVITED TALKS

Schnurr, M.A. Can Genetically Modified crops help African farmers? The case of banana in Uganda. Social Science Research on GE crop Adoption and Acceptance. National Research Council of the US National Academy of Sciences (Webinar). February 2015

Schnurr, M.A. Can Genetically Modified crops help African farmers? Or, An Attempt to Engage with Agricultural Economists. Saint Mary's University's Department of International Development Studies Seminar Series. Halifax, NS. January 2015.

Schnurr, M.A. Can Genetically Modified crops help African farmers? Reflections on research and outreach. From the Ground Up: Translational Research Pathways to Improve Lives of Smallholder Farmers. Washington, DC. November 2014.

Schnurr, M.A. GMO 2.0: Agricultural Biotechnology in Africa. Mapping the Global Food Landscape. Waterloo, ON. September 2014.

Schnurr, M.A. Can Genetically Modified crops help African farmers? SSHRC Connecting Cultures Event. Halifax, NS. March 2014

Schnurr, M.A. Can Genetically Modified Organisms benefit Ugandans? Plenary address at the National Dialogue on GMOs. Kampala, Uganda. June 2013.

Schnurr, M.A. Using a blended learning approach to simulate the negotiation of multi-lateral environmental agreements. Dalhousie University Blended Learning Workshop. February 2013.

Schnurr, M.A. Using the role-play simulation to achieve active learning. Dalhousie University TA Days event. September 2012.

Schnurr, M.A. The impact of GMOs on food security and livelihoods: experiences from various countries around the world. National Exhibition and Open Dialogue on Seed, Kampala, Uganda. June 2010.

Schnurr, M.A. The hairier the better: Breeding for insect resistance across imperial networks. Department of History Stokes Seminar Series, Dalhousie University. November 2009.

TEACHING EXPERIENCE

Dalhousie University

2014 INTD 4013 *Environmental Security and Conflict: Implications for the Global South*
2014 INTD 4012 *Honours Thesis Course*

- 2013 INTD 3114 *Environment and Development*
 2013 SUST 2001 *Environment, Sustainability and Governance: A Global Perspective*
 2013 INTD 4012 *Honours Thesis Course*
 2012 INTD 3114 *Environment and Development*
 2012 SUST 2001 *Environment, Sustainability and Governance: A Global Perspective*
 2011 SUST 2001 *Environment, Sustainability and Governance: A Global Perspective*
 2010 INTD 4012 *Honours Thesis Course*
 2010 INTD 5007 *Environment and Development*
 2010 INTD 4013 *Environmental Security and Conflict: Implications for the Global South*
 2010 INTD 3002 *Development in Practice*
 2009 INTD 3114 *Environment and Development*
 2009 INTD 3014 *Community Development*
 2009 INTD 3103 *Participatory Development*
 2009 INTD 3002 *Development in Practice*
 2008 INTD 3114 *Environment and Development*
 2008 INTD 3104 *Community Development in Comparative Perspective*

McGill University

- 2008 AFRI 598 *Research Seminar in African Studies*
 2007 INTD 497 *Seminar in International Development.*
 2007 HIST 201 *Modern African History*
 2006 INTD 497 *Seminar in International Development*

Concordia University

- 2008 GEOG 300 *Environment: Historical and Cultural Perspectives.*

University of British Columbia

- 2006 GEOG 121 *Geography, Modernity, Globalization.*

STUDENT SUPERVISION

Post-doctoral fellow

- 2014 Dr. Lincoln Addison. *Investigating attitudes towards GM crops in Uganda.*

M.A.

- 2016 (Expected) Lucy Hinton. *Bordering on Food Insecurity? Food importation trends in Nova Scotia* (primary supervisor)
 2015 (Expected) Kelly Pickerill. *Gendered dynamics of fishing communities in east Africa* (primary supervisor)
 2015 (Expected) Alanna Taylor. *Land, Water and Environmental Justice: Exploring the Implications of Land Deals on Water Security in Rural Tanzania* (primary supervisor)
 2015 (Expected) Cassandra Demers. *GEO's and Gender: The commercialization of genetically engineered organisms and what it means for women farmers* (primary supervisor)
 2015 (Expected) Saidu Tembo. *Land Grabs in Sierra Leone* (second reader)
 2014 Alia Karim. *Occupy gardens? A case study of the People Pea's garden in Toronto, Canada* (primary supervisor)

- 2014 Tamara Tucker. *Decision-making processes of customary land in Zambia: administration, authority and security* (second reader).
- 2013 Fiona Brooks. *Is bigger better? The impact of marine protected area expansion on community-based conservation* (primary supervisor)
- 2012 Margo Warren. *A catch-22? An exploration of the domestic production of antiretroviral drugs in Uganda* (third reader)
- 2010 Talia Meer. *Finding the community in community-based natural resource management: the case of Ndumo game reserve, South Africa.* (primary supervisor)
- 2010 Laurel Van De Keere. *Aging in an era of change: contextualizing the upcoming demographic shift in Marich Pass, North Western Kenya* (second reader)
- 2010 Elliot Bridgewater *Resource wealth and corruption in Venezuela* (third reader)
- 2009 Heather McKenzie. *An alternative relationship? Foreign participation in the Zambian community school movement* (third reader)
- Honours Theses*
- 2014 Samantha Gawron (SUST) *Can Genetically Modified cotton help smallholder farmers in Burkina Faso?* (primary supervisor)
- 2014 Anika Roberts-Stahlbrand (SUST) *A political ecology of the apple in Nova Scotia* (primary supervisor)
- 2014 Alida O'Connor (IDS) *Transfrontier Conservation Areas in Africa: Does the reality match the rhetoric?* (primary supervisor)
- 2014 Sarah Koetsier (IDS) *Green grabbing in Ecuador* (primary supervisor)
- 2014 Alycia Novacefski (IDS) *Can existing regulatory structures safeguard against potential risks associated with Genetically Modified alfalfa?* (primary supervisor)
- 2013 Viktoria Lovrics (IDS) *#Kony2012: An example of activism or slacktivism?* (primary supervisor)
- 2013 Lucy Dykhuis (SUST) *Sowing the seeds of experiential learning: Perspectives on the creation of a high school gardening class in the Halifax Regional Municipality* (primary supervisor)
- 2011 Will Horne (IDS) *Is water a human right?* (primary supervisor)
- 2011 Mary Godin (IDS) *Are NGOs political actors? The case of the Kenyan Human Rights Association* (primary supervisor)
- 2010 Mary Shawna Wilson (IDS) *Urban planning and the use of space in Indonesian kampungs.* (primary supervisor)
- 2009 Lara Green (IDS and Environmental Studies) *Jatopha as biofuel: An analysis of the possible implications for food security in Mali.* (primary supervisor)
- 2009 Hilary Young (IDS) *Trading democracy for development: South Africa's failed attempt to decentralize development along the Wild Coast.* (primary supervisor)

ADMINISTRATION

- 2013/2014 IDS Undergraduate Coordinator
- 2013/2014 Member, Selection Committee for CLT Grants
- 2013/2014 Member, Department of English Chair Advisory Committee
- 2013/2014 Member, Senate Appeals Committee
- 2012/2013 IDS Undergraduate Coordinator
- 2012/2013 Member, Senate Appeals Committee

2012/2013 Member, College of Sustainability Awards Committee
 2012/2013 Member, College of Sustainability Curriculum Development Committee
 2011/2012 Member, College of Sustainability Awards Committee
 2011/2012 Member, College of Sustainability Curriculum Development Committee
 2011/2012 Member, South African Student Exchange Program Selection Committee
 2011/2012 IDS Undergraduate Coordinator
 2010/2011 IDS Undergraduate Coordinator
 2010/2011 Member, Selection Committee for Teaching with Technology Grants Committee
 2010/2011 Member, IDS Tenure and Promotion Committee
 2010/2011 Member, Senate Committee on Learning and Teaching
 2010/2011 Member, College of Sustainability Curriculum Development Committee
 2010/2011 Faculty Representative, IDEAS (IDS Undergraduate Student Society)
 2010/2011 Member, South African Student Exchange Program Selection Committee
 2009/2010 Member, Senate Committee on Learning and Teaching
 2009/2010 Member, College of Sustainability Curriculum Development Committee
 2009/2010 Member, Department of Political Science Chair Advisory Committee
 2009/2010 Faculty Representative, IDEAS (IDS Undergraduate Student Society)
 2008/2009 Member, IDS Search Committee, Assistant Professor in Social Development

BOOK REVIEWS

Review of C. Folke Ax, N. Brimnes, N.K. Hensen and K. Oslund's *Cultivating the colonies: colonial states and their environmental legacies* (2011). Athens: Ohio University Press. *Journal of Historical Geography* 39 (2013) 147.

Review of P. Porter's *Challenging nature: local knowledge, agrosience, and food security in Tanga Region, Tanzania* (2007). Chicago: University of Chicago Press. *Environment and Planning A* 39: 505-506.

Review of P. Gibbon and S. Ponte's *Trading down: Africa, value chains, and the global economy* (2007). Philadelphia: Temple University Press. *Environment and Planning A* 39(1): 235-238.

SCHOLARLY WORK IN THE MEDIA

Scientists accused of carrying out research that favours seed companies. *The East African*. November 2 2015.

Interview with CBC Halifax' Evening News, September 29 2015

Feature interview with Alliance for Science, Cornell University, April 2 2015

Super Bananas Enter US Market Trials. *Scientific American*, July 1 2014

Can biotech crops help African farmers overcome pests, diseases? *New Vision (Ugandan Daily)* May 21 2014

Interview with Global TV's Morning Show, March 17, 2014

Interview on CKDU's Habitat, March 14 2014

Guest on KFM's *The Hot Seat* with Charles Mwanguhya, June 20 2013

Guest on Radio Sapientia's *Omulongoti* (Civic Education) program with Frank Jjunju, June 20 2013

Will GMOs solve hunger problems in Uganda? *New Vision (Ugandan Daily)* June 16, 2010

COMMUNITY INVOLVEMENT

2011 Guest speaker for National High School Debate team

2009 Guest speaker for High School Development Workshop *You Choose!*

2009 Faculty Advisor for Dalhousie Student Union's Model United Nations Society

2009 Workshop leader, Global Awareness Youth Conference

Current as of 23/10/2015