

Virginia M. Moore

USDA-ARS Beltsville Agricultural Research Center
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EDUCATION	PhD, Plant Breeding & Plant Genetics University of Wisconsin-Madison	2018
	Joint M.S., Agroecology and Agricultural & Applied Economics University of Wisconsin-Madison	2015
	B.Sc., Environment McGill University <i>Concentration:</i> Food Production and Environment <i>Minors:</i> International Development Studies, Hispanic Languages	2010
RESEARCH EXPERIENCE	Postdoctoral Research Scholar Sustainable Agricultural Systems Lab (SASL) Beltsville Agricultural Research Center (BARC), USDA-ARS	2019 - present
	<i>I manage a national network of plant breeders, cover crop experts, soil scientists, and agronomists working to develop new cover crop varieties within three winter annual legume species (crimson clover, hairy vetch, and winter pea). I manage communications across this team, develop protocols, conduct data analysis, and write grants and publications for both scientific and lay audiences. I manage breeding nurseries and trials at the Maryland site, including data collection and selection for traits including winter survival, high biomass, early vigor, soft seed, and flowering time. I also developed a new research program trialing and selecting cover crops for adaptation to interseeding. In this role I also supervise two full-time field technicians and various undergraduate interns.</i>	
	Postdoctoral Research Associate Organic & Sustainable Agriculture Research & Extension Program Department of Plant Pathology, University of Wisconsin-Madison	2018
	<i>I managed trials focused on interseeding cover crops in organic corn systems, developed a survey focused on farmer adoption of no-till practices in organic grain systems, and interviewed organic dairy farmers about their cropping systems and soil health management.</i>	
	Graduate Research Assistant Sweet Corn Breeding & Genetics Program Department of Agronomy, University of Wisconsin-Madison	2015 - 2018
	<i>My PhD research focused on breeding sweet corn for resistance to corn earworm and management of corn earworm on organic farms. Projects included both field-based breeding projects and a farmer survey/interviews concerning organic approaches to</i>	

pest management.

Graduate Research Assistant 2013-2015
Cropping Systems Economics Program
Department of Agricultural & Applied Economics, University of Wisconsin-Madison

My masters research focused on on-farm adoption of sustainable practices. Projects included a survey of organic farmers on their use of cover crops and applications of a sustainability metric for the vegetable processing industry.

Summer Field Research Assistant 2013-2014
Organic & Sustainable Agriculture Research & Extension Program
Department of Agronomy, University of Wisconsin-Madison

I assisted with projects focused on participatory vegetable variety trialing on organic farms in the northern U.S., and on mechanization and labor use efficiency on organic vegetable farms.

PUBLICATIONS Peer Reviewed Publications

Moore, V.M., J. Maul, D. Wilson, W. Curran, D. Brainard, T. Devine, and S. Mirsky. *In press*. Registration of ‘Purple Bounty’ and ‘Purple Prosperity’ Hairy Vetch. *Journal of Plant Registrations*.

Moore, V.M. and W.F. Tracy. 2019. Recurrent Full-Sib Family Selection for Husk Extension in Sweet Corn. *Journal of the American Society for Horticultural Science* 144(1): 63-69. <https://doi.org/10.21273/JASHS04559-18>

Dawson, J.C., V.M. **Moore**, and W.F. Tracy. 2018. Establishing best practices for germplasm exchange, intellectual property rights, and revenue return to sustain public cultivar development. *Crop Science* 58: 469-471.

Silva, E.M. and V.M. **Moore**. 2017. Cover Crops as an Agroecological Practice on Wisconsin Organic Vegetable Farms: Moving Beyond Organic History and Regulation to Agroecological Function. *Sustainability* 9(1): doi:10.3390/su9010055.

Moore, V.M., P.D. Mitchell, E.M. Silva, and B.L. Barham. 2016. Cover Crop Adoption and Intensity on Wisconsin’s Organic Vegetable Farms. *Agroecology and Sustainable Food Systems* 40(7): 693-713.

Manuscripts Submitted

Moore, V.M. and S.B. Mirsky. *In review*. Cover Crop Biomass Production Across Establishment Methods in Mid-Atlantic Corn.

Moore, V.M. and W.F. Tracy. *In review*. Survey of organic sweet corn growers identifies corn earworm prevalence, management, and opportunities for plant breeding.

Selected Other Publications

Smith, D.H., V.M. **Moore**, M. Ruark, and E. Silva. 2019. Interseeding cover crops in row-cultivated corn. *University of Wisconsin-Madison Division of Extension* No. A4175.

Tracy, W.F., J.C. Dawson, V.M. **Moore**, and J. Fisch (Eds.). 2016. Intellectual Property Rights and Public Plant Breeding: Recommendations, and proceedings of a conference on best practices for intellectual property protection of publicly developed plant germplasm. Raleigh, NC, August 12-13.

FUNDING

Innovation through participation: A multi-disciplinary approach to intensifying cover crops in corn production 2019-2021

Funder: NIFA AFRI Education and Workforce Development (EWD) Postdoctoral Fellowship
Amount: \$155,508

Corn Earworm Management: a Survey of Organic Sweet Corn Growers 2017-2018
Funder: Organic Farming Research Foundation (OFRF)
Amount: \$3,588

Organic Community Attitudes and Policy towards Biotechnology 2017
Funder: Wisconsin Historical Society (WHS) Organic and Sustainable Agriculture History Research Grant
Amount: \$2,000

Collecting On-Farm Environmental Data: Towards Resilient, Organic Vegetable Varieties 2015-2016
Funder: Ceres Trust Graduate Student Organic Research Grant Program
Amount: \$9,093

CONFERENCES Selected Presentations

Moore, V.M., L. Kissing Kucek, L. Bastos Martins, L. Drinkwater, N. Ehlke, J. Englert, R. Hayes, R. McGee, S. Mirsky, C. Reberg-Horton, H. Riday, M. Ryan, and G. Smith. 2020. Breeding Cover Crops for the Mid-Atlantic. *Delmarva Soil Summit*, Georgetown, DE.

Moore, V.M., A. Burke, S. Wayman, and S.B. Mirsky. 2019. Legume Cover Crop Breeding (LCCB) Field Tour. *Northeast Cover Crop Council Annual Meeting*, Beltsville, MD.

Moore, V.M., S.B. Mirsky, L. Kissing Kucek, S.C. Reberg-Horton, G.R. Smith, S. Seehaver Eagen, M. Ryan, S. Wayman, and A. Harris. 2019. Performance of Crimson Clover Breeding Lines in the Eastern U.S. *ASA-CSSA-SSSA Annual Meeting*, San Antonio, TX.

Moore, V.M. and S.B. Mirsky. 2019. Interseeding into Corn: Effects of Species and Planting Method on Cover Crop Biomass Production. *ASA-CSSA-SSSA Annual Meeting*, San Antonio, TX.

Moore, V.M. 2018. Organic Community Discourse around Biotechnology. *Agriculture, Food, and Human Values Society and Association for the Study of Food and Society Annual Meeting*, Madison, WI.

Moore, V.M. and W.F. Tracy. 2016. Combining Ability for Husk Extension and Corn Earworm Resistance. *International Sweet Corn Development Association Annual Meeting*, Chicago, IL.

Moore, V.M. and P.D. Mitchell. 2015. Cover Crop Adoption on Wisconsin Vegetable Farms. *Wisconsin Fresh Fruit and Vegetable Conference*, Wisconsin Dells, WI.

Moore, V.M. 2014. The State of Organic Seed. *National Young Farmers' Conference*, Tarrytown, NY.

Moore, V.M. and P.D. Mitchell. 2014. Cover Crop Use and Adoption. *Cover Crop Field Day, Arlington Agricultural Research Station*, Arlington, WI.

Moore, V.M. 2014. Economics of Organic Plant Breeding. *Student Organic Seed Symposium*, Ithaca, NY.

Selected Posters

Moore, V.M. and W.F. Tracy. 2018. Corn Earworm Management: a Survey of Organic Sweet Corn Growers. *ASA-CSSA Annual Meeting*, Baltimore, MD

Moore, V.M. and W.F. Tracy. 2018. Inquiry-based Learning in an Introductory Agronomy Class. *Teaching & Learning Symposium*, Madison, WI.

Moore, V.M. and W.F. Tracy. 2018. Corn Earworm Management: a Survey of Organic Sweet Corn Growers. *Midwest Organic and Sustainable Education Service (MOSES) Organic Farming Conference*, La Crosse, WI.

Moore, V.M. and W.F. Tracy. 2017. Combining Ability for Husk Extension and Corn Earworm Resistance. *ASA-CSSA-SSSA Annual Meeting*, Tampa, FL.

Moore, V.M. and W.F. Tracy. 2017. Husk Extension and Corn Earworm Resistance in Organic Sweet Corn. *MOSES Organic Farming Conference*, La Crosse, WI.

Moore, V.M. and W.F. Tracy. 2017. Husk Extension and Corn Earworm Resistance in Organic Sweet Corn. *Organicology*, Portland, OR.

Myers, J., E. Silva, W.F. Tracy, M. Mazourek, M. Colley, L. McKenzie, J. Zystro, L. Robertson, J. Labate, L. Selman, S. Kawai, A. Huster, K. Young, A. Pfeiffer, V.M. **Moore**, and R. Hultengren. 2016. Vegetable Variety Trials for Organic Systems: A project of the Northern Organic Vegetable Improvement Collaborative. *MOSES Organic Farming Conference*, La Crosse, WI.

Moore, V.M. and P.D. Mitchell. 2015. Cover Crop Adoption on Wisconsin's Organic Vegetable Farms. *MOSES Organic Farming Conference*, La Crosse, WI.

Moore, V.M. and P.D. Mitchell. 2015. Cover Crop Adoption on Wisconsin's Organic Vegetable Farms. *Organic Agriculture Research Symposium (OARS)*, La Crosse, WI.

Wille, N., P.D. Mitchell, F. Dong, V.M. **Moore**, D. Knuteson, and J. Wyman. 2014. A DEA-PCA Sustainability Metric for Processing Vegetable Crops. *Agricultural and Applied Economics Association (AAEA) Conference*, Minneapolis, MN.

TEACHING EXPERIENCE

Courses

Instructor

Fall 2018

INTEGSCI 660: Research Mentor Training

Wisconsin Institute for Science Education and Community Engagement (WISCIENCE),

University of Wisconsin-Madison

Teaching Assistant Spring 2018
AGROECOLOGY 375/875: Food Production Systems and Sustainability
Department of Dairy Science, University of Wisconsin-Madison

Teaching Assistant Spring 2018
DYSCI 472: Animal Agriculture and Global Sustainable Development
Department of Dairy Science, University of Wisconsin-Madison

Teaching Assistant Fall 2016, Fall 2017
AGRON 100: Principles & Practices in Crop Production
Department of Agronomy, University of Wisconsin-Madison

Beginning Farmer Program Assistant 2012-2013
Center for Integrated Agricultural Systems (CIAS)

Guest Lectures

SUST 651: Ecological Sustainability and Social Innovation Fall 2018
Department of Environmental Studies, Edgewood College
Topic: diversification in plant breeding and food systems

SUST 651: Ecological Sustainability and Social Innovation Fall 2017
Department of Environmental Studies, Edgewood College
Topic: plant breeding, genetic modification, intellectual property, and sustainability

ENVS 303: Sustainable and Just Food Systems Spring 2017
Department of Environmental Studies, Edgewood College
Topic: agricultural policy and sustainability

**PROFESSIONAL
SERVICE**

Committee Member, Science Policy Committee, American Society of Agronomy (ASA) 2020 - present

Board Member, Society for Organic Seed Professionals (SOSP) 2019 - present

Co-Organizer, Women in Plant Sciences Seminar Series, University of Wisconsin-Madison 2017

Conference Planning Committee Member, Symposium on Intellectual Property and Funding Public Plant Breeding Programs 2016

Conference Planning Committee Member, Student Organic Seed Symposium (SOSS) 2016

Student Representative, Agricultural & Applied Economics Graduate Committee, University of Wisconsin-Madison 2014-2015

Student Representative, Agroecology Governance Committee, University of Wisconsin-Madison 2013-2015

Board Member, FairShare CSA Coalition, Madison, WI 2013-2016

AFFILIATIONS American Society of Agronomy (ASA)
Crop Science Society of America (CSSA)
National Association of Plant Breeders (NAPB)
Society of Organic Seed Professionals (SOSP)

LANGUAGES French: *advanced*
Spanish: *advanced*
Hindi: *beginner*