

Nancy Lee Adamson
PO Box 20653, Greensboro, NC 27420
e-mail adamson@vt.edu

OBJECTIVE: Build connections between people and nature through discovery, engagement, research, and restoration.

RESEARCH, WRITING & TEACHING INTERESTS

Pollination ecology, ecological restoration, agroforestry, ethnobiology, biological farming

EDUCATION

PhD., Entomology, Virginia Tech, Blacksburg, VA, 2011

Dissertation: *An Assessment of Native Bees as Fruit and Vegetable Crop Pollinators in Southwest Virginia*. Also received Future Professoriate Graduate Certificate. GPA 3.8

M.S., Natural Resource Sciences, University of Maryland, College Park, MD, 2000 Thesis: *Establishing Native Grasses Along Maryland Roadways*. GPA 3.8

M.A., Environmental Geography, Ohio University, Athens, OH, 1992

Thesis: *Locally Managed Conservation in Rural Tunisia*. GPA 3.7

B.A., International Relations, University of California, Santa Barbara, CA, 1985 (junior year abroad at the University of Edinburgh, Scotland)

EMPLOYMENT HISTORY

Pollinator Conservation Specialist, Xerces Society for Invertebrate Conservation & Natural Resources Conservation Service East National Technology Support Center (biennial contribution agreement), 8/2011–present

- Provide training and technical support to NRCS staff, farmers, gardeners, and organizations on pollinators, other insects beneficial for agricultural production (conservation biological control), native habitat restoration, and Farm Bill programs (on private lands)
- Writing, presentations, webinars, and other outreach materials in “MEDIA” section below

Research Technician, Cornell University Entomology Department, Ithaca, NY, 5/2011–7/2011

- Conducted field sampling for bees, developed maps, and processed specimens for apple pollination project; contributed media for pollination guide www.northeastipm.org/park2012

Graduate Assistant, Virginia Tech Entomology Department, Blacksburg, VA, 8/2006–12/2010

- Research Assistant--pollination project supported by the Virginia Cooperative Extension and screening for invasive wood boring insects (See related articles & videos in “MEDIA” section)
- Teaching Assistant--Bees & Beekeeping, Insect Biology, and Insects & Human Society

Board Member, Maryland Native Plant Society, Sep 1996–Jan 2001, 1/2006–8/2006

- Promoted appreciation of native plants and their ecological benefits
- Raised awareness of problems associated with invasive species

Native Plant Landscaper, self-employed, MD/DC/VA, periodically 1988–8/2006

- Provided guidance; installed and maintained native plant landscaping

Horticulture Extension Educator, Univ. of Maryland Extension, Frederick, MD, 9/2004–8/2006

- Managed Frederick County Horticulture and Master Gardener Programs
- Supported environmentally beneficial horticultural and pest management practices (see related articles in “MEDIA” section)

Field Botanist, New Jersey Natural Heritage Program, southern NJ, 7/2002–4/2003

- Surveyed coastal plain intermittent pond and sea-level fen plant communities

- Generated maps with ArcView and helped define herbaceous communities using PC-ORD

Education Coordinator/Nursery Manager, Adkins Arboretum, Ridgely, MD, 12/2000–7/2002

- Developed educational programs and print materials, and led field trips
- Managed a native plant nursery, plant sales, and community restoration plantings
- Substantially increased revenues from plant sales and streamlined procedures

Consultant, Maryland State Highway Administration, MD, 9/2000–11/2000

- Created meadow planting and invasive species management plan for highway corridor

Field Ecologist, Chesapeake Natives, Chesapeake watershed, MD and VA, 3/1997–11/2000

- Inventoried natural areas, established and maintained native plantings of common native plants for ecological restoration
- Worked with landowners to gain permission to access their lands and harvest seeds

Teaching Assistant, University of Maryland, Natural Resource Sciences, 9/1997–8/2000

- Woody Plants, Introduction to Horticulture, Introduction to Landscape Architecture
- Led Tropical Agro-ecosystems field course in Costa Rica

Environmental Consultant, Wolinski Consulting, MD, 1/1997–8/1997

- Compiled wildlife database of birds, mammals, reptiles and amphibians of Maryland and surrounding states using Access database

Foreman-in-Training, Environmental Quality Resources, Gaithersburg, MD, 1/1997–8/1997

- Worked to reforest, create wetlands (mitigation), and improve storm water management

Horticulture Volunteer, Birmingham Botanical Gardens, Birmingham, AL, 7/1996–8/1996

- Led children from inner-city recreational centers in socio-horticultural activities

Farmhand/Seller, Wheatland Vegetable Farms, Purcellville, VA, 3/1995–11/1995

- Tended, harvested, and sold vegetables for a farm serving the metropolitan DC area

Ethnobiology Consultant, Itzaj Maya Dictionary Database, Peten, Guatemala, 1/1995–3/1995

- Determined scientific names of local flora and fauna for a trilingual dictionary

Horticulture Intern and Volunteer, U.S. National Arboretum, Washington, DC, 1993–1995

- Maintained the Friendship Garden perennial collection and inventoried the Native Plant Collection

Lecturer, George Mason University Geography Department, Fairfax, VA, 9/1994–12/1994

- Conservation of Resources and Environment course for juniors and seniors

Teacher, Echo Hill Outdoor School, Worton, MD, 3/1994–9/1994

- Taught experiential classes exploring ecology of Maryland's eastern shore, developing self-confidence and team skills of students; Co-led canoe and other 3–5 day boat trips

Intern, Student Conservation Association, US Bureau of Land Management, Prineville, OR, 5/1992–7/1992

- Monitored riparian habitat and helped with restoration projects

Graduate Assistant, Ohio University Geography Department, Athens, OH, 8/1989–4/1992

- Led rural and urban field studies of human impacts on watersheds for environmental and resource management students

Field Intern, Cultural Survival, Peten, Guatemala, 11/1992–5/1993

- Worked with a rural indigenous organization to protect the community's forest reserve

Rural Development Intern, US Agency for International Development, DC, 1/1992–6/1992

- Supported conservation of fragile lands in Latin America through improving communication among regional (watershed) resource users and regulators

Export Development Specialist, US Small Business Administration, DC, 2/1988–12/1988

- Coordinated ten regional trade conferences for Office of International Trade, edited *Exporter's Guide*

Special Education Teacher and Field Researcher, US Peace Corps, Tunisia, 6/1985–6/1987

- Taught developmentally disabled and blind students
- Conducted sociological field surveys for Save the Children Foundation

Administrative Assistant (Volunteer), Nicaragua U. S. Friendship Office, DC, periodically 1980/90s

- Supported sister city program and peace initiatives

SCHOLARSHIPS & FELLOWSHIPS

Kosztarab Scholarship, 2010, Recognizing research in systematics or significant contributions to the Insect Collection, Department of Entomology, Virginia Tech

Maryland Ornithological Society Scholarship, 2001, Maine Audubon field ornithology course

Orion Society Scholarship, Fire & Grit: Working for Nature in Community, 1999

Cullowhee Landscaping with Native Plants Conference Scholarship, 1998

Organization for Tropical Studies Scholarship & Mini-grant, 1992, Sustainable ecosystems field course in Costa Rica, research with Cabecar indigenous peoples

Development Studies Scholarship, Ohio University, 1990, Supporting 6 month internship at the Office of Rural Development, US Agency for International Development, DC

Fellowship in Language Area Studies for Indonesian, Ohio University, 1988–89

International Education and Exchange Conference Scholarship, 1985, National Association of Foreign Student Affairs

HONORS & AWARDS

Wild Acres Residency, 2016

Graduate Student Assembly Travel Grant, 2011 and 2010

Alwood Society Travel Grant, 2009

Graduate Research Development Grant, 2009

Gamma Sigma Delta, 2008, Recognizing excellence in the practice of agricultural pursuits, the Honor Society of Agriculture, Virginia Tech Chapter

Frederick Master Gardener Dedication, 2007, Native plant garden named and dedicated in my honor by Frederick, MD Master Gardeners

Leland E. and Catherine B. Scott Award, 1999, Recognizing an outstanding graduate student, Department of Natural Resource Sciences, University of Maryland

Distinguished Teaching Assistant Award, 1999, University of Maryland

LANGUAGE & COMPUTER SKILLS

Conversant in oral and written French and Spanish. Also studied German, Russian, Indonesian and Tunisian Arabic.

Conversant in Office Suite (Word, Excel, PowerPoint, Access); ArcMap; SAS JMP and SAS; Photos and iMovie; Adobe Photoshop, InDesign, PageMaker, and Dreamweaver (learning Illustrator); EndNote.

MEDIA

Peer Reviewed Journal Articles

Ryan, S.F., N L. Adamson, A. Aktipis, L.K. Andersen, R. Austin, L. Barnes, M.R. Beasley, K.D. Bedell, S. Briggs, B. Chapman, C.B. Cooper, J.O. Corn, N.G. Creamer, J.A. Delborne, P. Domenico, E. Driscoll, J. Goodwin, A. Hjarding, J.M. Hulbert, S. Isard, M. G. Just, K. Kar Gupta, M.M. Lopez-Urbe, J. O'Sullivan, E.A. Landis, A.A. Madden, E.A. McKenney, L.M. Nichols, B.J. Reading, S. Russell, N. Sengupta, L.R.

- Shapiro, L.K. Shell, J.K. Sheard, D.D. Shoemaker, D.M. Sorger, C. Starling, S. Thakur, R.R. Vatsavai, M. Weinstein, P. Winfrey and R.R. Dunn. 2018. The role of citizen science in addressing grand challenges in food and agriculture research. *Proc. R. Soc. B* 285: 20181977. <http://dx.doi.org/10.1098/rspb.2018.1977>
- Kleijn, D., R. Winfree, I. Bartomeus, L.G. Carvalheiro, M. Henry, R. Isaacs, A. Klein, C. Kremen, L.K. M'Gonigle, R. Rader, T.H. Ricketts, N.M. Williams, N.L. Adamson, J.S. Ascher, A. Báldi, P. Batáry, F. Benjamin, J.C. Biesmeijer, E.J. Blitzer, R. Bommarco, M.R. Brand, V. Bretagnolle, L. Button, D.P. Cariveau, R. Chifflet, J.F. Colville, B.N. Danforth, E. Elle, M.P.D. Garratt, F. Herzog, A. Holzschuh, B.G. Howlett, F. Jauker, S. Jha, E. Knop, K.M. Krewenka, V. Le Féon, Y. Mandelik, E.A. May, M.G. Park, G. Pisanty, M. Reemer, V. Riedinger, O. Rollin, M. Rundlöf, H.S. Sardiñas, J. Scheper, A.R. Sciligo, H.G. Smith, I. Steffan-Dewenter, R. Thorp, T. Tschardtke, J. Verhulst, B.F. Viana, B.E. Vaissière, R. Veldtman, C. Westphal, and S.G. Potts. 2015. Delivery of crop pollination services is an insufficient argument for wild pollinator conservation. *Nature Communications* 6 (Article 7414). doi:10.1038/ncomms8414. <http://rdcu.be/i4zF>
- Adamson, N.L., T.H. Roulston, R.D. Fell, and D.E. Mullins. 2012. From April to August—wild bees pollinating crops through the growing season in Virginia, USA. *Environmental Entomology* 41:813-821. <http://dx.doi.org/10.1603/EN12073>

Chapters in Books

- Bentrup, G., Hopwood, J., Adamson, N.L., Powers, R., and Vaughan, M. (in draft). Pollinator chapter for agroforestry textbook (to be published by Springer in 2019).
- Hofling, C.A., F.F. Tesucun and N.L. Adamson. 1997. “Appendix A: Flora Taxonomy” and “Appendix B: Fauna Taxonomy” in Itzaj Maya Spanish English Dictionary by C.A. Hofling and F.F. Tesucun. University of Utah Press: Salt Lake City.

Other Articles or Technical Guidance

- Adamson, N.L. 2018. From our gardens: Protecting pollinators is something we can all do. *Greensboro News & Record*, 17 Aug. https://www.greensboro.com/life/from-our-gardens-protecting-pollinators-is-something-we-can-all/article_782e78f6-310e-583c-a15d-93837a183911.html
- Adamson, N.L. 2018. Conserving native bees and other pollinators in NC Friends of Plant Conservation July newsletter (12–14). http://www.ncplantfriends.org/uploads/5/7/1/0/57102531/july_2018_corr.pdf
- Vaughan, M., Adamson, N.L., and MacFarland, K. 2017. Using agroforestry practices to reduce pesticide risks to pollinators and other agriculturally beneficial insects. *Agroforestry Notes* 35(9). <https://www.fs.usda.gov/nac/documents/agroforestrynotes/an35g09.pdf>
- Adamson, N.L., P. Battle, M. Schonbeck. 2016. Choosing and managing cover crops to support beneficial insects for pest control and pollination fact sheet. Southern Sare Cover Crop Conference Bulletin, Mt. Olive, NC, July. <http://www.southernsare.org/News-and-Media/SSARE-Bulletins/Cover-Crops-Research-Across-the-Southern-Region/Choosing-and-Managing-Cover-Crops-to-Support-Beneficial-Insects-for-Pest-Control-and-Pollination>
- Adamson, N. L. 2016. Native pollinator section, North Carolina Pollinator Protection Plan. NC DACS. <http://www.ncagr.gov/pollinators/documents/Native-Pollinator-Section.pdf>
- Adamson, N. L. 2015. Native bees of Georgia in *The Dirt*, the Georgia Organics newsletter. <https://georgiaorganics.org/2015/10/native-bees-vital-for-georgia-produce/>.
- Adamson, N. L. 2015. Delectable native plants attract a very special crowd in “This month in your pollinator garden” section of *Bring Back the Pollinators* newsletter (May). <http://www.xerces.org/your-pollinator-garden/may-2015-native-plants/>.
- Adamson, N. L. and K. Trozzo. 2015. Feasting on the forest buffet...er...buffer: Planting riparian forest buffers for diverse harvests, to support pollinators, and to protect watersheds. *Inside Agroforestry* 23(2):6-7. https://www.fs.usda.gov/nac/documents/insideagroforestry/IA_vol23issue2_pollinators.pdf
- Ward, T. and N. L. Adamson. 2015. Incorporating pollinator habitat into silvopasture. *Inside Agroforestry* 23(2):4-5. https://www.fs.usda.gov/nac/documents/insideagroforestry/IA_vol23issue2_pollinators.pdf
- Adamson, N.L. and T. Ward. 2015. Thinning for pollinators and healthier forest communities. *Inside Agroforestry* 23(2):5. https://www.fs.usda.gov/nac/documents/insideagroforestry/IA_vol23issue2_pollinators.pdf

- Adamson, N. L. and R. F. Long. 2014. Diverse native hedgerows deliver healthier crop systems. *Inside Agroforestry* 23(1):10-11. https://www.fs.usda.gov/nac/documents/insideagroforestry/IA_vol23issue1.pdf
- Adamson, N. L., T. Ward, and M. Vaughan. 2012. Windbreaks designed with pollinators in mind. *Inside Agroforestry* 20(1):8-10. <https://www.fs.usda.gov/nac/documents/insideagroforestry/vol20issue1.pdf>
- Adamson, N.L. 2007. Finding flavor with a walk in the wild in Sierra Club New River Group newsletter, fall (revised from earlier publications by the Frederick News Post 2004 and Native Plant Society of New Jersey newsletter 2002). <https://nrvtierraclub.files.wordpress.com/2012/01/fall-20071.pdf>
- Adamson, N.L. 2003. Summer sweethearts: Summer blooming and fruiting plants that support mid-Atlantic wildlife in Native Plant Society of New Jersey summer newsletter.
- Adamson, N.L. 2001. Where do grasses fit in the forests of the mid-Atlantic? in Adkins Arboretum winter newsletter (revised from article "Some thoughts about grasses and their companions," published in the Maryland Native Plant Society's newsletter Native News, Vol.6, No.3, Summer 1998 issue.
- Adamson, N.L. 2001. Nursery news: Introducing local ecotype native plants propagated at Adkins Arboretum in Adkins Arboretum summer newsletter.

Edited Book, Manual, or Brochure

- Working Trees for Pollinators* brochure and *Working Trees for Pollinators* information sheets, USDA National Agroforestry Center, 2015 and 2016.
<https://www.fs.usda.gov/nac/documents/workingtrees/brochures/WTPollinators.pdf> and
<https://www.fs.usda.gov/nac/documents/workingtrees/infosheets/WTInfoSheetCropPollinationJune2016.pdf>
- Thompson, L.R. 2006. *An introduction to the ecology of Maryland's native plants, 2006 edition: Coastal plain and piedmont*. University of Maryland Master Gardener Program.
- Office of International Trade, U.S. Small Business Administration, 1988. *Exporter's guide to federal resources for small businesses*. US Government Printing Office: Washington D.C.

Maryland Extension Articles

- Adamson, N.L. 2006. Become a Master Gardener in the Farm and Garden Section of the Frederick News-Post, Jan. 9.
- Adamson, N.L. 2005. Supporting a new kind of garden in the Readers Say Thanks Section of the Frederick News-Post, Dec. 18.
- Adamson, N.L. 2005. Native hedgerow: Cultivating diversity to replace old barriers in the Farm and Garden Section of the Frederick News-Post, Dec. 5.
- Adamson, N.L. 2005. Do you love to volunteer? in the Farm and Garden Section of the Frederick News-Post, Sep. 26.
- Adamson, N.L. 2005. Garden secrets: Native summer blooming and fruiting plants in the Farm and Garden Section of the Frederick News-Post, Jul. 25.
- Adamson, N.L. 2005. Winter wanderings: Supporting wildlife and adding beauty to your winter landscape in the Farm and Garden Section of Frederick News-Post, Feb. 7.
- Adamson, N.L. 2004. Finding flavor with a walk in the wild: Mid-Atlantic native berries, fragrant leaves and flavorful twigs in winter. Frederick News-Post, Oct. 20. Revision of article published originally in the Native Plant Society of New Jersey winter 2002 newsletter.

Brochures/Educational Materials

- Diverse Native Hedgerow for Pollination, Pest Management, and Wind Reduction
<https://tinyurl.com/DiverseNativeHedgerow>
- Monarch Butterfly Nectar Plant Lists for Conservation (in collaboration with many other Xerces staff and partners) https://www.xerces.org/wp-content/uploads/2018/06/2018-003_01_Monarch-Nectar-Plants-for-Conservation-Plantings_web.pdf
- Monarch Nectar Plant Guides (in collaboration with many other Xerces staff and partners)
<http://xerces.org/monarch-nectar-plant-guides/>
- Adult Nectar Plant Bee flier for Alabama NRCS, 2016—highlighting ways farmers and beekeepers can collaborate to support pollinators, and resources. <http://tinyurl.com/jkj2xkn>

Pollinator-friendly plant lists for the Mid-Atlantic, Southeast, and Florida <http://www.xerces.org/pollinator-conservation/plant-lists/>

Native Plant Garden for Pollinators, 2008, at the Virginia Tech Apiary Garden

Native Hedgerow: Cultivating Diversity to Replace Old Barriers, 2006, for Frederick County Maryland Cooperative Extension demonstration garden

Reports

Adamson, N.L. 1986. *Area profiles of El Blad and Erragba*, prepared for Save the Children, Tunisia 1986.

Documented local perceptions of natural and human resources to strengthen long-term land-use planning and community development.

Adamson, N.L. 1992. *Cultivating colors for cultural diversity*. With a grant from the Organization for Tropical Studies, researched natural fiber and dye plants used for traditional arts among the Cabecar indigenous peoples and a pilot community development project coordinated by CARE.

Edited Videos or Slideshares

Native Pollinators Beneficial Insects & Farmscaping, videos created by Living Web Farms videographers Lisa Almaraz and Avery Banners of a classroom and field workshop with Patryk Battle of Living Web Farms and Brannen Basham of Spriggley's Beescaping, 2018, 3 Parts: <https://youtu.be/If9GX6rn-Hw>, <https://youtu.be/6uj5RgC2z3I>, and https://youtu.be/Hhi_fPJ9LUM

Native milkweeds such as antelope horns support monarch caterpillar, 2015, <https://www.youtube.com/watch?v=d269eIU3KCY>

Native plants of the mid-Atlantic support diverse pollinators, 2014, <https://www.youtube.com/watch?v=HhC5iY0ijJM>

Native hedgerow & pawpaw patch demonstration gardens: Cultivating diversity to replace old barriers (Parts I&II) for the Frederick Maryland Master Gardeners, 2013

- Part I <http://www.slideshare.net/NancyLeeA/part-1-of-2-frederick-maryland-master-gardener-native-hedgerow-pawpaw-patch-demonstration-gardens-27028274>
- Part II <http://www.slideshare.net/NancyLeeA/part-1-of-2-frederick-maryland-master-gardener-hedgerow-pawpaw-patch-demonstration-garden>

Bumble bee and solitary bee buzz pollination, 2012, <https://youtu.be/rMvQSx2429U>

Integrating pollinators into wildlife conservation practices, in collaboration Carol Heiser, VA Dept. of Game and Inland Fisheries, <https://www.slideshare.net/NancyXerces/intergrating-native-pollinators-into-wildlife-conservation-practices>, 2012

Insect pollination of goldenrod, 2011. On DiscoverLife's Goldenrod Challenge page <http://www.discoverlife.org/goldenrod>.

Bee crop pollinators of southwest Virginia, presented as a poster at the International Conference on Pollinator Biology, Heath and Policy, Penn State University, State College, 2010. Created for an award presentation (Kosztarab Scholarship), http://www.youtube.com/watch?v=l_etyEdu9fQ (>32,000 views)

Webinars

Conservation Webinars hosted by the NRCS East National Technology Support Center

- Matching Appropriate Seed to Conservation Practices, November 2015, with Sudie Daves Thomas, SC NRCS Wildlife Biologist, and Jennifer Cruz Anderson, GA NRCS State Biologist <http://www.conservationwebinars.net/webinars/matching-appropriate-seed-to-conservation-practices?searchterm=match>.
- NRCS and Wildlife Habitat in Urban Environments: Linking Farm, School, and Community Agriculture, June 2015, with Alfonso Norwood, OH NRCS Urban Conservationist <http://www.forestrywebinars.net/webinars/nrcs-and-wildlife-habitat-in-urban-environments>
- Farming for beneficial insects: Pollinators, predators, and parasitoids, July 2013 <http://www.forestrywebinars.net/webinars/farming-for-beneficial-insects-pollinators-predators-and-parasitoids>.
- Common bees and best bee plants of the East, April 2012 <http://www.forestrywebinars.net/webinars/common-bees-and-best-bee-plants-of-the-east>.

Living Web Farms Webcasts

- *Learning to See Supporting the Insects that Make Our Farm & Garden Work*, July 2018
<http://livingwebfarms.org/workshops/native-pollinators-beneficial-insects-and-the-farmscaping-to-support-them> (links to edited videos from this event are included in the Edited Videos/Slideshares section above)
- *Roundtable: Keepers of the Bees*, June 2015. “Livecast” with beekeepers, agronomists, permaculturists, and conservationists (Diane Almond of Honey Bee and Heather Farm, Patryk Battle and Michelle Carter of Living Web Farms, Phyllis Stiles of Bee City USA, Sarah Eshan The Bee Whisperer, Angie Lavezzo of Sow True Seed, and Andrew Goodheart Brown of Permaculture Asheville
<https://www.youtube.com/watch?v=XxXtcU6ZbrU>

Other Outreach

Developed signs for Dunleith Community Garden, Greensboro, 2015 (became Dunleath in 2017);

<https://drive.google.com/open?id=0B74eScjtdXpRVXhVcFR0blB6MUE>; Created listserv.

Maintain events calendar and listserv for Triad Chapter, NC Native Plant Society, 2014–present

SERVICE

Advisor

Dunleath Community Garden Membership Coordinator 2015–present

Science Advisory Board, Bee City USA, 2016–present

Research Advisor, Bee HELP: Bee Habitat Evaluation Project, Virginia Tech, PI Dr. Megan O’Rourke, 2016

Bee Nursery Project at UNC Asheville, Clemson Architecture students, 2016

Hendersonville Pollinator Garden Display, 2015–2016

Greensboro Woven Works Park, Greensboro Greenway Birds, Bees, and Butterfly Garden, 2015–present