

PAMELA GEDDES

Department of Biology, Northeastern Illinois University, 5500 N. St. Louis Ave., Chicago, IL 60625

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Professional Preparation:

Miami-Dade Community College	Biology	A.A. 1994
Florida International University	Biology	B.S. 1996
Florida International University	Biology	M.S. 1999
University of Chicago	Ecology	Ph.D. 2004
Loyola University Chicago	Ecology	Post-doc 2004-2009

Appointments:

- 2023 present. Co-Director of Living Learning Communities, Northeastern Illinois University, Chicago, IL
- 2021-present. Full Professor, Department of Biology, Northeastern Illinois University, Chicago, IL
- 2020-present. Faculty fellow, Curriculum, Degree Programs, and Articulation Committee. ARCOS (*Advancing Research and Career Opportunities in STEM*). Dept. of Education Title III grant.
- 2021-2025. Peer Leadership Team member. CASA (*Creating Access to STEM for All*). Dept. of Education Title V grant.
- 2015-2021. Associate Professor, Department of Biology, Northeastern Illinois University, Chicago, IL
- 2021-present. Appointed Commissioner, [Environmental Review Committee](#), Village of Glenview, IL
- 2009-2015. Assistant Professor, Department of Biology, Northeastern Illinois University, Chicago, IL
- 2011-present. Research Associate, Chicago Botanic Garden, Glencoe, IL
- 2012-2013. Mentor, NU-START Program (Northwestern University - Select Teaching and Research Training) funded by National Institutes of Health and National Institutes of General Medical Sciences as part of the IRACDA program
- 2009. Research Associate, Center for Urban Environmental Research & Policy, and Dept. of Biology, Loyola University Chicago, Chicago, IL
- 2007-2008. NSF Post-doctoral Fellow, Dept. of Biology, Loyola University Chicago
- 2004-2006. Post-doctoral Research Associate, Center for Urban Environmental Research and Policy and Dept. of Biology, Loyola University Chicago.

Honors, Recognitions, and Awards:

- **USDA E. Kika de la Garza Fellow**, Washington DC, Summer 2025
- **Audrey Reynolds Distinguished Teaching Award** Northeastern Illinois University, Spring 2022.
- **Excellence Award in Teaching** Northeastern Illinois University, Spring 2020.
- **Excellence Award in Service** Northeastern Illinois University, Spring 2019.
- **Excellence Award in Service** Northeastern Illinois University, Spring 2016.
- **Excellence Award in Teaching** Northeastern Illinois University, Fall 2013.
- Nominated to the inaugural **Latino/a Faculty Spotlight** for Hispanic Heritage Month, Northeastern Illinois University, Fall 2014
- **SACNAS Summer Leadership Institute Fellow**. Selected to participate at SACNAS SLI sponsored by Society for the Advancement of Hispanics and Native Americans in Science, American Association for the Advancement of Science (AAAS), and Stanford University, Summer 2014.
- **SACNAS Award for “Outstanding Campus Involvement and Partnerships Award”** for the SACNAS@NEIU Chapter of which I was a faculty mentor/advisor in 2010-2018, Fall 2013.

Teaching Experience:

- **Instructor (at NEIU unless otherwise noted):**
 - BIO 104 The Changing Natural Environment (General Education): Fall 2009, 2012

- BIO 109A-FYE Alien Invasions of Chicago (First Year Experience), Spring 2014; Fall 2016, 2019, 2022, 2024, 2025
- BIO 150/250 Essential Skills for Biologists: Spring 2012, Fall 2016, Spring 2020
- BIO 202 General Biology II: Fall 2011, Fall 2015 (lab)
- BIO 305-WIP General Ecology (Writing Intensive Program): Fall 2009, 2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019; Spring 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2018, 2021
- BIO 390 Biology Senior Seminar (Capstone): Spring 2011, 2013, 2024, Fall 2011, 2012, 2013, 2014, 2020
- BIO 392/393 Independent Research (undergraduate): Fall 2013, Spring 2014, 2020
- BIO 357* Community Ecology (upper undergraduate / graduate): Spring 2012, Spring 2018
- BIO 453 Conservation Biology (graduate): Spring 2010, Fall 2012, Fall 2018, Fall 2022
- BIO 455 Restoration Ecology (graduate): Fall 2010, 2020, 2024, Spring 2014
- BIO 481 Biological Investigations (graduate): Summer 2012, 2018, Fall 2013, Spring 2025
- Food Web Ecology: Loyola University Chicago, Chicago, IL, Fall 2006 (upper undergraduate / graduate)
- **Co-Instructor:**
 - NEIU 100/300 ACE the Sciences I and II, Fall 2019, 2020, 2021, 2022, 2023, Spring 2020, 2021, 2022, 2023 NEIU
 - ENVI 101 Introduction to Environmental Sciences, Spring 2015, 2016, 2019, 2020; Fall 2015, 2016 NEIU
 - STEP (Solutions to Environmental Problems): Food Systems (undergraduate), Spring 2008, Loyola University Chicago, Chicago, IL
 - STEP (Solutions to Environmental Problems): Biodiesel (undergraduate), Fall 2007, Loyola University Chicago, Chicago, IL

Grants and Fellowships:

- **USDA Hispanic-Serving Institutions Education Grant**/National Institute of Food and Agriculture: A bridge to USDA research for HSI STEM undergraduates. PI: **P. Geddes** (replaced L. Sanders after her retirement), co-PIs: K. Voglesonger and K. Nicholson. \$275,000 awarded. September 2020-August 2025.
- **Student Center for Science Engagement Summer Research Grants:** Testing molecular markers to identify the potential plant invader *Typha domingensis* (southern cattail). PI: **P. Geddes**. \$7,000 awarded. May 2019-July 2019.
- **USDA Agriculture for Research Initiative (AFRI) Competitive Grant** / National Institute of Food and Agriculture: Preparing undergraduates for new frontiers in data analysis: Experiential learning in Applied Statistics (ELIAS) Fellows program. PI: C. Butts-Wilmsmeyer, co-PIs: M. Villamil, A. Lipka, and M. Bohn (University of IL, Champaign-Urbana). Collaborators: **P. Geddes**, Northeastern Illinois University. Awarded. \$378,765 Awarded. April 2019-March 2023.
- **National Science Foundation HSI Program:** Building Capacity: A longitudinal research-based learning community to address critical transitions of underprepared freshmen in STEM. PI: L. Sanders. Co-PIs: **P. Geddes**, K. Voglesonger, S. Saszik, M. Erber. \$1,500,000 awarded. October 2018 – December 2023.
- **Student Center for Science Engagement Summer Research Grants:** Methodology to identify two new potential cattail invaders to the Midwest. PI: **P. Geddes**. \$7,000 awarded. May 2018-July 2018.
- **NEIU Committee on Organized Research (COR) Grant:** Estimating invasion threat by two cattail species non-native to the Midwest. PI: **P. Geddes**. \$4,000 awarded. July 2018 – June 2019.
- **NEIU Summer Research Stipend:** Measuring the effects of plant restorations on structure and function of soil microbial communities. PI: **P. Geddes**. \$5,000 awarded. May 2018-August 2018.
- **National Science Foundation HSI Conference:** Catalyzing Progress in STEM Education – Insights from Midwestern HSIs. PI: L. Sanders, coPIs: **P. Geddes**, J. Hibdon, G. Perera, S. Srinivas. \$100,000 awarded. January 2018-December 2018.
- **NEIU General Travel Fund.** PI: **P. Geddes**. \$800 awarded. August 2018.

- **Chicago Botanic Garden NSF Research Experience for Undergraduates (REU).** Restoration of Aquatic Environments. PIs: P. Nicodemus, **P. Geddes**, J. Fant. \$600 for project supplies; funding of undergraduate (Dylan Wallace). Summer 2018.
- **Student Center for Science Engagement Summer Research Grants:** Microsatellites and gene sequences: A complementary approach to detecting hybridization in invasive plant species. PIs: **P. Geddes** and J. Olfelt. \$9,000 **awarded**. May 2016-July 2016.
- **Arbor Day Foundation Tree Campus USA Mini-Award** to celebrate Arbor Day on Campus. PIs: P. Geddes, M. Storie, and R. Flakne. \$1,000 awarded. April 2016-June 2016.
- **NEIU General Travel Fund** to attend Ecology and Management of Alien Plant Invasions international conference. \$800 awarded. August 2015.
- **NEIU Committee on Organized Research (COR) Grant:** Using molecular tools to accurately identify hybridizing species. PI: P. Geddes. \$4,000 awarded. July 2015 – June 2016.
- **USDA Food and Agricultural Sciences National Needs Graduate and Post-graduate Fellowship (NNF) Grants Program:** Multicultural Investigators Nurtured in Data Science in Agriculture Program (MINDS in AG). PIs: Villamil, MB, S. Rodríguez Zas, **P. Geddes**, C. Riggins, and S. Lubienski. \$246,000 awarded. 2015-2019.
- **Student Center for Science Engagement Summer Research Grants:** Identification and hybridization rates in four *Typha* species. PIs: **P. Geddes** and J. Olfelt. \$3,000 awarded. May 2015-July 2015
- **Student Center for Science Engagement Summer Research Grants:** Improving our ability to identify hybridizing plant invaders: the need for a robust set of molecular markers PIs: **P. Geddes** and J. Olfelt. \$9,000 awarded. April 2014-August 2014.
- **NEIU Research Communities:** Use of next-generation sequencing approaches to develop molecular markers in the study of plants: Phase II. PIs: P. Geddes, J. Olfelt, A. Schirmer, and F. Iacobelli. \$4,999 awarded. December 2013-May 2014.
- **NEIU General Travel Fund** to attend Ecological Society of America meeting. \$500 awarded. August 2014.
- **Student Center for Science Engagement Summer Research Grants:** Identification of hybridizing cattail species: Are microsatellite markers useful for their identification over a broad geographic region? PIs: P. Geddes and J. Olfelt. \$11,000 awarded. April 2013-August 2013.
- **NEIU Research Communities:** Use of next-generation sequencing approaches to develop molecular markers in the study of plants. PIs: P. Geddes, J. Olfelt, A. Schirmer, and F. Iacobelli. \$5,000 awarded. April 2013-March 2014.
- **USDA CREAR (Collaboration and Retention through Environmental and Agricultural Research):** A “molecular tool kit” to identify hybridizing cattail species: Microsatellites and DNA sequencing as potential markers. PIs: P. Geddes and J. Olfelt. \$11,000 awarded. May 2012 – September 2012
- **NEIU Research Communities:** Molecular tools and computational analyses in the study of plants: A Research Community. PIs: P. Geddes, J. Olfelt, and M. Sztainberg. \$5,000 awarded. Fall 2011 – Spring 2012
- **NEIU Applied Learning and Engaged Scholarship Committee Minigrant.** Incorporating Service-learning/Civic-Engagement into a Biology Major Capstone Course. Mini-Grant PI: Geddes, P. \$500. Summer 2012.
- **NEIU Student Center for Science Engagement Summer Research Grants:** Use of microsatellites in the identification of hybridizing cattail species. PIs: P. Geddes, J. Olfelt, and A. Schirmer. \$16,000 awarded. June 2011 – August 2011
- **NEIU Committee on Organized Research (COR) Grant:** Use of molecular tools in the identification of hybridizing invasive species: *Typha* spp. as a model group. PI: P. Geddes. \$3,000 awarded. October 2010 – June 2011
- **USDA Agriculture for Research Initiative (AFRI) Competitive Grant /** National Institute of Food and Agriculture: CREAR -- Collaboration and Retention through Environmental and Agricultural

Research. PIs: N. Wrinkle, A. Fraiman, P. Geddes, J. Hemzacek, and L. Sanders. \$290,000 awarded. Fall 2010 – Spring 2013.

- **NSF Research Starter Grant:** Linking invasive plant species with their effects on ecosystem processes. PI: P. Geddes. \$50,000 awarded. July 2010 – June 2012
- **Student Center for Science Engagement Visiting Scholars Program Grant:** Visiting Scholar: Maria Villamil from University of Illinois, Champaign-Urbana. PI: Pamela Geddes. \$1,121 awarded. Summer 2010.
- **Student Center for Science Engagement Summer Research Grants:** Effects of gasoline additives on aquatic systems in Lake Michigan harbors. PIs: P. Geddes, K. Nicholson, A. Schirmer, and K. Voglesonger. \$22,000 awarded. June 2010 – August 2010
- **NSF MRI-R²:** Acquisition of a triple quadrupole tandem mass spectrometer. PI: P. Chiarelli, Co-PIs: N. Tuchman and P. Geddes. \$413,305 awarded. Jan. 2010 – Dec. 2011
- **LUC Multidisciplinary Grant Competition.** Chicago Clean Air, Clean Water Program. Co-PIs: N. Tuchman, J. Frendreis, G. Thiruvathukal, D. Slavsky, and P. Geddes. \$10,000 awarded. Jan. 2009 - Dec. 2010
- **NSF Minority Post-Doctoral Fellowship.** Exploring mechanisms behind biological invasions: Do microbes mediate plant invasion success by altering nutrient dynamics? PI: P. Geddes. \$120,000 awarded; Jan. 2007 – March 2009
- **Illinois-Indiana SeaGrant (NOAA).** How do plant species invasions affect water quality services performed by Great Lakes coastal wetlands? Co-PIs: N. C. Tuchman, D. Larkin, P. Geddes, and D. Goldblatt. \$80,000 awarded; Spring 2008 – Fall 2009
- **U.S. Environmental Protection Agency, P3 (People, Prosperity, and the Planet) Phase I.** Innovative biodiesel production: A solution to the scientific, technical, and educational challenges of sustainability. Co-PI. \$10,000 awarded; Sept. 2007 – Sept. 2008
- **National Science Foundation Dissertation Improvement Grant,** June 2002 – June 2004
- **Department of Education GAANN Fellowship (Graduate Assistance in Areas of National Need),** University of Chicago, Fall 2004
- **Illinois Minority Graduate Incentive Program Fellowship,** September 2001 – August 2004
- **Ecology and Evolution Departmental Travel Fund,** University of Chicago, Summer 2004
- **Hinds Fund Grant;** Committee on Evolutionary Biology, University of Chicago, June 2001 – June 2003
- **Doolittle Fellowship;** University of Chicago, Summer 2002
- **George H. Lauff Research Award;** Kellogg Biological Station, Michigan State University, Hickory Corners, MI, Summer 2002
- **Tropical Biology Program Travel Award and Fellowship;** Florida International University, Miami, FL, Fall 1997 and Spring 1999
- **University of Michigan Merit Award and Scholarship,** U. of M. Biological Station, Pellston, MI, Summer 1997

Publications:

- Slate, J. and **P. Geddes.** Accepted in TIEE (Teaching Issues and Experiments in Ecology). Invasive plants and their relationship to ecosystem properties: A multi-week authentic research project.
- Ohsowski, B., C. Redding, **P. Geddes** and S.C. Lishawa. 2024. Field-based measurement tools to distinguish clonal *Typha* taxa and estimate biomass: A resource for conservation and restoration. *Frontiers in Plant Science*. Volume 15 - 2024 | <https://doi.org/10.3389/fpls.2024.1348144>
- Geddes, P.,** L. Murphy*, Y. Astudillo-Scalia*, D. Blasini*, S. Nugent*, M. J. Rios*, A. Schirmer, and J. P. Olfelt. 2021. Microsatellite markers reveal unprecedented high frequencies of hybridization among *Typha* species in the Midwestern US. *Wetlands* 41(24). <https://doi.org/10.1007/s13157-021-01429-2>
- Pini, A.K. and **P. Geddes.** 2020. Fungi are capable of mycoremediation of river water contaminated with *E. coli*. *Water, Air, and Soil Pollution* 231:83. <https://doi.org/10.1007/s11270-020-4464-7>
- Volesky, L.A., S. Iqbal, J.J. Kelly, and **P. Geddes.** 2018. Relationships of native and exotic *Phragmites*

- australis* to wetland ecosystem properties. *Wetlands* 38(3):577-589. DOI 10.1007/s13157-018-1001-1.
- Geddes, P.** 2015. Experimental evidence that subsidy quality affects the stability of recipient planktonic communities. *Aquatic Sciences* 77(4):609-621.
- Geddes, P.,** T. Grancharova, J. J. Kelly, D. Treering, and N. C. Tuchman. 2014. Effects of invasive *Typha x glauca* on wetland ecosystem properties are influenced by time since invasion. *Aquatic Ecology* 48:247-258. <https://link.springer.com/article/10.1007/s10452-014-9480-5>
- Lishawa, S.C., K.J. Jankowski, **P. Geddes**, D.J. Larkin, A.M. Monks, and N.C. Tuchman. 2014. Denitrification in a Laurentian Great Lakes coastal wetland invaded by hybrid cattail (*Typha x glauca*). *Aquatic Sciences* 76:483-495.
- Larkin, D. M. Freyman, S. Lishawa, **P. Geddes** and N.C. Tuchman. 2011. Mechanisms of dominance by the invasive hybrid cattail *Typha X glauca*. *Biological Invasions* 14(1):65-77.
- Mitchell, M.M, S. Lishawa, **P. Geddes**, D. Larkin, D. Treering, and N.C. Tuchman. 2011. Time-dependent impacts of cattail invasion in Great Lakes coastal wetlands. *Wetlands* 31:1143-1149.
- Geddes, P.** 2009. Decoupling carbon effects and UV protection from terrestrial subsidies on pond zooplankton. *Hydrobiologia* 628:47-66.
- Tuchman, N. C., D. Larkin, **P. Geddes**, R. Wildova, K. Jankowski, and D. E. Goldberg. 2009. Patterns of environmental change associated with *Typha x glauca* invasion in a Great Lakes coastal wetland. *Wetlands* 29(3):964-975.
- Chick, J. H., **Geddes, P.** and Trexler, J. C. 2008. Periphyton mat structure mediates trophic interactions in a subtropical marsh. *Wetlands* 28(2):378-389.
- Tuchman, N. C., M. A. Schollett, S. T. Rier, and **P. Geddes**. 2006. Differential heterotrophic utilization of organic compounds by diatoms and bacteria under light and dark conditions. *Hydrobiologia* 561(1):167-177.
- Leibold, M. A. and **P. Geddes**. 2005. El concepto de nicho en las metacomunidades. *Ecología Austral* 15:117-129.
- Geddes, P.** and J. C. Trexler. 2003. Uncoupling of omnivore-mediated positive and negative effects on periphyton mats. *Oecologia* 136:585-595.
- Hermann, P. M., A. C. Curino, and **P. Geddes**. 2002. Comparative vegetative anatomy of *Neosparton darwinii* and *N. ephedroides* (Verbenaceae). *Boletín de la Sociedad Argentina de Botánica* 36:63-70.
- Turner, A. M., Trexler, J. C., Jordan, F., Slack, S. J., **Geddes, P.**, J. H. Chick, and W. F. Loftus. 1999. Targeting ecosystem features for conservation: Standing crops in the Florida Everglades. *Conservation Biology* 13:898-911.

Non-refereed publications:

- Geddes, P.** 2019. The invasion of the cattails. Podcast. In *Defense of Plants*.
<http://www.indefenseofplants.com/podcast/2019/4/21/ep-209-invasion-of-the-cattails>
- Geddes, P.** 2019. Too many cattails? An expert visits the Class of 1918 marsh. *Friends of the Lakeshore Nature Preserve Newsletter*. Preserve! 18(2):7.
<https://www.friendslakeshorepreserve.com/uploads/2/6/9/3/26931781/2019-spring-preserve-newsletter.pdf>
- Pantoja, A., **P. Geddes**, and J.C. Puentes. 2018. Conference on Catalyzing Progress in Undergraduate STEM Education: Insights from Midwestern HSIs. Medley, October issue, pages 1-2. Midwest Area Diversity and Equal Opportunity Council, Agricultural Research Service, United States Department of Agriculture. <https://www.ars.usda.gov/ARUserFiles/50000000/Medley/MedleyOct2018.pdf>

Contributed Papers: (* denotes undergraduate students; **denotes graduate students)

- **Moran, C. and **P. Geddes**. 2025. Traditional Ecological Knowledge and cattails: Preliminary library research and curation of resources. Al-Bazi NEIU Research and Creative Activities Symposium. Chicago, IL. (Oral presentation)
- *Campbell, A., S. Ortiz*, J. Reynolds*, R. Williams*, K. Voglesonger, S. Saszik, and **P. Geddes**. 2024. The

- science of water quality: Testing for bacteria when using commercial water treatment methods. NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Oral presentation)
- *Flores, A., **P. Geddes**, and Javier M. Gonzalez. 2023. Does phosphorus fertilizer affect soybean yield, oil, and protein content? Student Center for Science Engagement Annual Symposium. Northeastern Illinois University, Chicago, IL (Poster presentation)
- *Barahona, S, **P. Geddes**, V.M. Boddu, and J.M. Gonzalez. 2023. Can old railroad ties be repurposed as biochar for nutrient sorption after creosote removal? Student Center for Science Engagement Annual Symposium. Northeastern Illinois University, Chicago, IL (Oral presentation)
- *García, S., and **P. Geddes**. 2022. Artificial floating wetlands improve habitat quality for aquatic macroinvertebrates in urbanized rivers. Joint Aquatic Science Meeting, Grand Rapids, MI. (Oral presentation).
- Geddes, P.** 2021. Is native cattail at risk of extinction by hybridization in the US Midwest? Invited symposium speaker. Society of Wetland Scientists Annual National Conference (Oral presentation – virtual).
- *García, S., and **P. Geddes**. 2021. Do artificial floating wetlands improve habitat quality for aquatic macroinvertebrates in urbanized rivers? Society of Wetland Scientists Annual National Conference (Poster presentation – virtual).
- *García, S., and **P. Geddes**. 2021. Do artificial floating wetlands improve habitat quality for aquatic macroinvertebrates in urbanized rivers? NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Oral presentation - virtual). **Award-winning oral presentation**
- *García, S., and **P. Geddes**. 2020. Macroinvertebrates as biological indicators of habitat quality: The role of artificial floating wetlands in aquatic ecosystems. NEIU Student Center for Science Engagement Annual Symposium, Chicago, IL. (Oral presentation - virtual).
- *García, S., and **P. Geddes**. 2020. Macroinvertebrates as biological indicators: The role of artificial floating wetlands in aquatic ecosystems. NEIU Biology Department Virtual Research Symposium. Chicago, IL. (Oral presentation - virtual).
- *García, S., G. Ríos*, and **P. Geddes**. 2020. Are microsatellite markers useful in detection of invasive plant species? A case study with *Typha domingensis*. Wisconsin Wetlands Association Annual Conference, WI (Oral presentation).
- *Ríos, G, S. García*, and **P. Geddes**. 2019. Molecular tools may help with early detection of invasive plant species: A case study with *Typha domingensis*. SACNAS National Conference, Honolulu, HI. (Poster presentation).
- *García, S., G. Ríos*, and **P. Geddes**. 2019. Molecular tools may help with early detection of invasive plant species: A case study with *Typha domingensis*. NEIU Student Center for Science Engagement Annual Symposium, Chicago, IL. (Oral presentation).
- **Nagy, L., and **P. Geddes**. 2019. Measuring the effects of an urban plant restoration on the structure and function of soil microbial communities. NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Oral presentation).
- **Nicodemus, P., and **P. Geddes**. 2019. Comparison of microbial functional diversity associated with artificial wetlands in an urbanized river system. NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Oral presentation).
- Kretlow, A., M.A. Feist, K.F. Doyle, **P. Geddes**. 2019. Graceful cattail (*Typha laxmannii*) found in Southeast Wisconsin. Wisconsin Wetlands Association Annual Conference, Madison, WI. (Poster presentation).
- *Wallace, D., P. Nicodemus**, and **P. Geddes**. 2018. How effective are artificial floating wetlands in improving ecosystem health? Chicago Botanic Garden NSF Research Experiences for Undergraduates Symposium. Glencoe, IL.
- *Ballasch, J., A. Kish*, and **P. Geddes**. 2018. Using molecular tools to identify a potential invasive population of the graceful cattail (*Typha laxmannii*) in the Midwest. NEIU Student Center for Science Engagement Annual Symposium, Chicago, IL. (Oral presentation).
- *Murphy, L., and **P. Geddes**. 2018. Is native cattail on the decline? A case study in Volo Bog State Natural Area, IL. Wisconsin Wetlands Association Annual Conference, Lake Geneva, WI (Oral presentation).

- *Martínez-Soto, K, and **P. Geddes**. 2017. The use of microsatellites to genetically identify a new potential plant invader, *Typha domingensis*, in the United States Midwest region. Society for Wetlands Scientists Annual Conference, San Juan, Puerto Rico. (Oral presentation).
- Geddes, P.** 2017. Extinction by hybridization? A probable fate for a native cattail species. Wisconsin Wetlands Association Annual Conference, Stevens Point, WI (Oral presentation).
- *Martínez-Soto, K, and **P. Geddes**. 2017. *Typha domingensis* potential invasion into the Midwest. NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Poster presentation).
- *Murphy, L., and **P. Geddes**. 2017. Survey of native *Typha latifolia* at Volo Bog State Natural Area. NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Poster presentation). **Award-winning poster presentation.**
- *Martínez-Soto, K, and **P. Geddes**. 2017. *Typha domingensis* potential invasion into the Midwest. Wisconsin Wetlands Association Annual Conference, Stevens Point, WI (Poster presentation). **Award-winning poster presentation.**
- *Murphy, L., and **P. Geddes**. 2017. Survey of native *Typha latifolia* at Volo Bog State Natural Area. Wisconsin Wetlands Association Annual Conference, Stevens Point, WI (Poster presentation).
- *Martínez-Soto, K, G. Monterroso*, L. Murphy*, and **P. Geddes**. 2017. Cattail dilemma: Native doom or hybrid dominance? Wild Things Conference, Chicago, IL. (Poster presentation).
- *Martínez-Soto, K, and **P. Geddes**. 2016. The use of microsatellites to genetically identify a new potential plant invader, *Typha domingensis*, in the Midwest region to the United States. NEIU's Student Center for Science Engagement Annual Symposium, Chicago, IL. (Oral presentation).
- *Murphy, L., and **P. Geddes**. 2016. Estimating plant invasion extent and hybridization of *Typha* species in Volo Bog, Illinois. NEIU's Student Center for Science Engagement Annual Symposium, Chicago, IL. (Oral presentation).
- *León, P., L. L. Sanders, J. M. Hemzacek, and **P. Geddes**. 2016. Water quality characterization within small peri-urban watersheds. SACNAS National Conference, Long Beach, CA. (Poster presentation).
- *Rivas, E. L. L. Sanders, J. M. Hemzacek, and **P. Geddes**. 2016. Relationship between water quality parameters and biological activity in eroded storm water runoff stream systems. SACNAS National Conference, Long Beach, CA. (Poster presentation).
- *Solís, R., **P. Geddes**, L. L. Sanders, and J. M. Hemzacek. 2016. Water quality and biological activity in a peri-urban oxbow wetland environment. SACNAS National Conference, Long Beach, CA. (Poster presentation).
- *Tapia, D., J. M. Hemzacek, L. L. Sanders, and **P. Geddes**. 2016. Soil properties in peri-urban wetlands and streams: Implications for water quality. SACNAS National Conference, Long Beach, CA. (Poster presentation).
- *León, P., L. L. Sanders, J. M. Hemzacek, and **P. Geddes**. 2016. Water quality characterization within small peri-urban watersheds. NEIU's Student Center for Science Engagement Annual Symposium, Chicago, IL. (Poster presentation).
- *Rivas, E. L. L. Sanders, J. M. Hemzacek, and **P. Geddes**. 2016. Relationship between water quality parameters and biological activity in eroded storm water runoff stream systems. NEIU's Student Center for Science Engagement Annual Symposium, Chicago, IL. (Poster presentation).
- *Solís, R., **P. Geddes**, L. L. Sanders, and J. M. Hemzacek. 2016. Water quality and biological activity in a peri-urban oxbow wetland environment. NEIU's Student Center for Science Engagement Annual Symposium, Chicago, IL. (Poster presentation).
- *Tapia, D., J. M. Hemzacek, L. L. Sanders, and **P. Geddes**. 2016. Soil properties in peri-urban wetlands and streams: Implications for water quality. NEIU's Student Center for Science Engagement Annual Symposium, Chicago, IL. (Poster presentation).
- *Monterroso, G., J. P. Olfelt, and **P. Geddes**. 2016. *Typha* species that hybridize: Importance of molecular markers in monitoring invasion. Chicago Symposium of the Society for Chicanos and Native Americans in Science Midwest Chapters. Northwestern University, Chicago, IL (Oral presentation).
- *Monterroso, G., J. P. Olfelt, and **P. Geddes**. 2016. *Typha* species that hybridize: Importance of molecular markers in monitoring invasion. NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Oral presentation). **Award-winning oral presentation.**

- *Whidden, S., J. Marsili*, L. Allende*, J. Olfelt, and **P. Geddes**. 2015. Hybridization of *Typha latifolia* and *Typha angustifolia* in the US Midwest. NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Oral presentation).
- *Strauss, R. C. Moran*, **P. Geddes**, J. Olfelt, R. Trana, and F. Iacobelli. 2015. Innovation in microsatellite cataloguing: Finding markers in Midwestern cattails (*Typha* species). NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Oral presentation).
- Geddes, P.** 2015. Extinction by hybridization? A probable fate for a native cattail species. NEIU Faculty Research Symposium, Chicago, IL. (Oral presentation).
- Geddes, P.** 2015. Invasive plants that hybridize: Challenges in cattail identification and in estimating hybridization rates. 13th International Conference on Ecology and Management of Alien Plant Invasions (EMAPi), Kona, HI. (Oral presentation).
- *Whidden, S., J. Olfelt, and P. Geddes. 2015. Hybridization of *Typha latifolia* and *Typha angustifolia* in the US Midwest. NEIU's Student Center for Science Engagement Annual Symposium, Chicago, IL. (Oral presentation).
- *Marsili, J., S. Whidden*, J. Olfelt, and **P. Geddes**. 2015. Employing molecular techniques to estimate hybridization rates of *Typha latifolia* and *Typha angustifolia*. All-Ireland Conference of Undergraduate Research (AICUR), University of Limerick, Limerick, Ireland.
- Slate, J. and **P. Geddes**. 2015. Using environmental issues to develop authentic research experiences in biology, chemistry, and math courses. SENCER Midwest Regional Symposium, Chicago, IL. (Oral presentation).
- Geddes, P.** 2014. Invasive plants that hybridize: Challenges in cattail identification and in estimating hybridization rates. NEIU Faculty Research Symposium, Chicago, IL. (Oral presentation).
- *Whidden S., J. Marsili*, J. Olfelt, and **P. Geddes**. 2014. Hybridization rates of *Typha latifolia* and *Typha angustifolia* in the U.S. Midwest. Society of Wetland Scientists' North Central Chapter Regional Meeting, Carbondale, IL. (Oral presentation).
- *Marsili, J., S. Whidden*, J. Olfelt, and **P. Geddes**. 2014. Hybridization rates of *Typha latifolia* and *Typha angustifolia* in the U.S. Midwest. SACNAS National Conference, Los Angeles, CA. (Poster presentation).
- *Whidden S., J. Marsili*, J. Olfelt, and **P. Geddes**. 2014. Use of microsatellite markers to estimate hybridization rates between *Typha latifolia* and *Typha angustifolia* in the Midwest. NEIU's Student Center for Science Engagement Annual Symposium, Chicago, IL. (Oral presentation).
- *Marsili, J., S. Whidden*, J. Olfelt, and **P. Geddes**. 2014. Hybridization rates of *Typha latifolia* and *Typha angustifolia* in the U.S. Midwest. NEIU's Student Center for Science Engagement Annual Symposium, Chicago, IL. (Poster presentation).
- *Moran, C.S., **P. Geddes**, and J. Olfelt. 2014. The development of *Typha latifolia* microsatellite markers for the identification of cattails populations in the Midwest. NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Oral presentation).
- *Guy, M., D. Arrecis, T. Spence, J. Olfelt, and **P. Geddes**. 2014. Microsatellite markers from European *Typha minima* prove useful for the identification of Midwestern cattails (*T. latifolia*, *T. angustifolia*, and *T. x glauca*). NEIU Student Research and Creative Activities Symposium. Chicago, IL. (Oral presentation).
- *Guy, M., D. Arrecis*, T. Spence*, J. Olfelt, and **P. Geddes**. 2014. Microsatellite markers from European *Typha minima* prove useful for the identification of Midwestern cattails (*T. latifolia*, *T. angustifolia*, and *T. x glauca*). Spring Symposium and Student Research Conference in STEM. Louis Stokes Alliance for Minority Participation, Tinley Park, IL. **Award-winning oral presentation.**
- Geddes, P.**, and A. Erber** 2013. The role of fungi in bioremediation of contaminated water. NEIU Faculty Research Symposium, Chicago, IL. (Oral presentation).
- *Arrecis, D., M. Guy*, T. Spence*, J. Olfelt and **P. Geddes**. 2013. Use of microsatellite markers to identify cattail plant species in the *Typha* genus. NEIU's Student Center for Science Engagement Annual Research Symposium, Chicago, IL. (Oral presentation).
- Geddes, P.** 2013. Investigating the effects of invasive plant species on ecosystems by conducting authentic scientific research at an urban teaching institution. REEFS: Resources for Ecological Education Fair & Share Session. Ecological Society of American Annual Meeting, Minneapolis, MN. (Oral

- presentation).
- **Volesky, L. and **P. Geddes**. 2013. Relationships of native and exotic strains of *Phragmites australis* to wetland ecosystem properties. Ecological Society of American Annual Meeting, Minneapolis, MN. (Oral presentation).
- *Blasini, D., M. Ríos*, Y. Astudillo-Scalia*, J. Olfelt, and **P. Geddes** 2013. Microsatellite markers that differentiate Midwestern North American *Typha* species (Typhaceae). Botanical Society of America Annual Meeting. New Orleans, LA. (Oral presentation).
- *Blasini, D., M. Ríos*, Y. Astudillo-Scalia*, J. Olfelt, and **P. Geddes**. 2013. Variability in identification and hybridization estimates using microsatellite markers in cattail plant species throughout the Midwest. Society for Wetlands Scientists Annual Meeting, Duluth, MN. (Oral presentation).
- *Iqbal, S., L.A. Volesky**, **P. Geddes**, and J. Kelly. 2013. Environmental factors influencing the abundance and activity of denitrifying bacteria in freshwater wetlands. Chicago Area Undergraduate Research Symposium. Chicago, IL. (Poster presentation).
- **Erber, A. and **P. Geddes**. 2013. Effect of *Pleurotus ostreatus* in removing *E. coli* from aquatic systems. NEIU Research and Creative Activities Symposium, Chicago, IL. (Oral presentation).
- *Blasini, D., M. Ríos*, Y. Astudillo-Scalia*, J. Olfelt, and **P. Geddes**. 2013. Effectiveness of microsatellite marker use as a tool for identifying hybridizing *Typha* plant species. NEIU Research and Creative Activities Symposium. Chicago, IL. (Oral presentation).
- **Erber, A. and **P. Geddes**. 2013. Effect of *Pleurotus ostreatus* in removing *E. coli* from aquatic systems. Nexus International Water Conference. Northeastern Illinois University, Chicago, IL. (Oral presentation).
- Geddes, P.**, M. Deisinger*, J.J. Mulliken*, K.T. Nicholson, S. Ryan*, A. Schirmer, K. Veldman*, and K.M. Voglesonger. 2013. Effects of gasoline additives on aquatic ecosystems in Lake Michigan harbors. Nexus International Water Conference. Northeastern Illinois University, Chicago, IL. (Oral presentation).
- *Ríos, M. D. Blasini*, Y. Astudillo-Scalia*, J.P. Olfelt, and **P. Geddes**. 2013. Inter- and intra-population variability in microsatellite markers for cattail plant species. Wisconsin Wetlands Association Conference. Sheboygan, WI. (Oral presentation).
- *Ríos, M. D. Blasini*, Y. Astudillo-Scalia*, J.P. Olfelt, and **P. Geddes**. 2013. Identification of cattail plant species from a broad geographic range using microsatellite markers. Louis Stokes Alliance for Minority Participation. Lisle, IL. (Oral presentation). **Award-winning oral presentation.**
- Geddes, P.** and E. Stojković. 2012. Quantitative literacy and civic engagement in upper level biology courses at an urban, comprehensive university. SENCER Midwest Symposium, Beloit, WI. (Oral presentation).
- Geddes, P.** 2012. Complex plant invaders: Assessing the effects of native and non-native strains of *Phragmites australis* on ecosystems. NEIU Faculty Research Symposium, Chicago, IL. (Oral presentation).
- *Blasini, D., M.J. Ríos*, Y. Astudillo-Scalia*, J. Olfelt, and **P. Geddes**. 2012. Geographic variation in microsatellite markers from cattail plant species throughout the Midwest. SACNAS National Conference, Seattle, WA. (Poster presentation). **Award-winning poster presentation.**
- *Astudillo-Scalia, Y., S. Wunderle*, J. Olfelt, A. Schirmer, and **P. Geddes**. 2012. Intra-population variability in microsatellite markers of cattail species. SACNAS National Conference, Seattle, WA. (Poster presentation).
- *Astudillo-Scalia Y., S. D. Wunderle*, **P. Geddes**, J. Olfelt, and A. Schirmer. 2012. Intra-Population Variability in Microsatellite Markers of Cattail Species. Ivy-Plus Stem Symposium & Workshops for Diverse Scholars. Philadelphia, PA (Poster presentation).
- **Volesky, L. and **P. Geddes**. 2012. Effects of native and non-native strains of *Phragmites australis* on freshwater wetlands. North Central Chapter of the Society for Wetland Scientists meeting, Chesterton, IN. (Oral presentation).
- *Blasini, D., M.J. Ríos*, Y. Astudillo-Scalia*, J. Olfelt, and **P. Geddes**. 2012. Identification of cattail plant species from a broad geographic range using microsatellite markers. NEIU's Student Center for Science Engagement Annual Research Symposium, Chicago, IL. (Oral presentation).
- Geddes, P.** and L. Volesky**. 2012. Effects of native and non-native strains of *Phragmites australis* on freshwater wetlands. Wetlands Wisconsin Association Conference, Lake Geneva, WI. (Oral

- presentation).
- *Astudillo-Scalia, Y., J. Shaier*, S. Wunderle*, J. Olfelt, A. Schirmer, and **P. Geddes**. 2011. From Genes to Ecosystems: Using Microsatellite Markers to Identify Problematic Invasive Plants. Louis Stokes Alliance for Minority Participation Conference, Chicago, IL. (Oral presentation). **Award-winning oral presentation.**
- Díaz, R., A. Fraiman, **P. Geddes**, and M. Villamil. 2011. Building a bridge between an HSI and a Land Grant institution. Hispanic Association of Colleges and Universities (HACU) National Conference, San Antonio, TX. (Oral presentation).
- *Astudillo-Scalia, Y., J. Shaier*, S. Wunderle*, J.P. Olfelt, A. Schirmer, and **P. Geddes**. 2011. Use of microsatellites in the identification of hybridizing cattail species in the *Typha* genus. SACNAS National Conference, San José, CA. (Poster presentation). **Award-winning poster presentation.**
- Geddes, P.** 2011. Understanding the effects of aggressive plant invaders. NEIU Faculty Research Symposium, Chicago, IL. (Oral presentation).
- Geddes, P.** 2010. Current state of knowledge regarding cattail (*Typha* spp.) genetics and hybridization. Illinois Lake Management Association, Naperville, IL. (Oral presentation).
- Geddes, P.** 2010. Challenges in identifying hybridizing invasive species: Cattails as a model system. NEIU Faculty Research Symposium, Chicago, IL. (Oral presentation).
- *Deisinger, M., S. Gurung*, JJ Muliken*, S. Ryan*, J. Semoon*, K. Veldman*, **P. Geddes**, K.T. Nicholson, A. Schirmer, and K.M. Voglesonger. Effects of gasoline additives on aquatic systems in Lake Michigan harbors. NEIU's Student Center for Science Engagement Annual Research Symposium, Chicago, IL. (Oral presentation by first author).
- *Mulliken, JJ, K. Veldman*, **P. Geddes**, K.T. Nicholson, A. Schirmer, and K.M. Voglesonger. 2010. Presence, distribution, and potential sources of gasoline additive contamination in Lake Michigan recreation boat harbors. Society for the Advancement of Chicanos and Native Americans in Science, Anaheim, CA. (Poster presentation).
- *Ryan, S., M. Deisinger*, **P. Geddes**, K.T. Nicholson, A. Schirmer, and K.M. Voglesonger. 2010. Identification and quantification of gasoline additives in Lake Michigan harbors. Society for the Advancement of Chicanos and Native Americans in Science, Anaheim, CA. (Poster presentation).
- *Semoon, J, S. Gurung*, **P. Geddes**, K.T. Nicholson, A. Schirmer, and K.M. Voglesonger. 2010. Effects of gasoline additives on aquatic biota in Lake Michigan harbors: A behavioral study on *Daphnia magna*. Society for the Advancement of Chicanos and Native Americans in Science, Anaheim, CA. (Poster presentation).
- **Mitchell, M.E., **P. Geddes**, D. Larkin, S. Lishawa, D. Treering, M. Olszewski*, and N.C. Tuchman. 2010. Constructing a timeline of *Typha x glauca* invasion: Ecological impact after more than fifty years of invasion in Great Lakes coastal wetlands. North American Benthological Society Meeting and American Society of Limnology and Oceanography, Santa Fe, NM. (Poster presentation).
- Wrinkle, N., A. Fraiman, **P. Geddes**, J. Hemzacek, and L. Sanders. 2010. CREAR: Collaboration and Retention through Environmental and Agricultural Research. United States Department of Agriculture, Washington, DC. (Poster presentation).
- Geddes, P.** 2010. Challenges in identifying hybridizing invasive species: Cattails as a model system. NEIU Faculty Research Symposium, Chicago, IL. (Oral presentation).
- Geddes, P.** 2010. Current state of knowledge regarding cattail (*Typha* spp.) genetics and hybridization. Illinois Lake Management Association, Naperville, IL. (Oral presentation).
- *Olszewski, M., **P. Geddes**, D. Larkin, M.E. Mitchell**, and N.C. Tuchman. 2010. Effects of invasive plant *Typha x glauca* on wetland denitrification and emission of nitrous oxide. North American Benthological Society Meeting and American Society of Limnology and Oceanography, Santa Fe, NM. (Oral presentation by first author).
- Geddes, P.**, and N. C. Tuchman. 2009. Do invasive wetland plant species affect microbially-mediated nitrogen dynamics? Society for Wetland Scientists, Madison, WI (Oral presentation by first author).
- **Mitchell, M. E., **P. Geddes**, D. Larkin, and N. C. Tuchman. 2009. *Typha x glauca* invasion in wetlands of the Great Lakes region: Are impacts time-dependent? North American Benthological Society Meeting, Grand Rapids, MI, (Oral presentation by first author).

- *Grancharova, T., **P. Geddes**, and J. J. Kelly. 2009. Invasive plant species have significant impact on denitrifier community composition in freshwater wetland sediments. Chicago Area Undergraduate Research Symposium (CAURS); Northwestern University, Chicago, IL (Poster presentation by first author).
- *Grancharova, T., **P. Geddes**, and J. J. Kelly. 2009. Impacts of invasive plant species on nitrogen cycling bacterial communities in freshwater wetland sediments. 109th American Society for Microbiology; Philadelphia, PA (Poster presentation by first author).
- Tuchman, N. C., D. Larkin, **P. Geddes**, K. Jankowski, M. Freyman, and L. Barham**. 2008. Mechanisms of obtaining dominance by invasive plants in Great Lakes coastal marsh ecosystems. North American Benthological Society, Salt Lake City, UT (Oral presentation by first author).
- *Grancharova, T., J. J. Kelly, **P. Geddes**, and T. O'Brien. 2008. Impacts of invasive plant species on nitrogen cycling bacterial communities in freshwater wetland sediments. Carbon Scholars Undergraduate Symposium, Dept. of Biology, Loyola University Chicago, Chicago, IL (Poster presentation by first author).
- **Vail, L. M., K. Jankowski, **P. Geddes**, D. Larkin and N. Tuchman. 2008. Increased rates of nitrogen fixation following a *Typha x glauca* invasion in a Great Lakes coastal wetland. North American Benthological Society, Salt Lake City, UT (Oral presentation by first author).
- Tuchman, N. C., K. Jankowski**, **P. Geddes**, D. Larkin, and L. Barham**. 2007. The impact of non-native cattail *Typha x glauca* on wetland structure and the biogeochemical cycling of nitrogen. North American Benthological Society annual meetings, Columbia, SC (Oral presentation by second author).
- *Porto, R., **P. Geddes**, and N. C. Tuchman. 2007. Tracking a wetland plant invasion using Lead-210 dating and nutrient analysis. Annual Biology Undergraduate Symposium, Dept. of Biology, Loyola University Chicago, Chicago, IL (Poster presentation by first author).
- *Mestrezat, S., **P. Geddes**, and N. C. Tuchman. 2006. Testing for allelopathic effects of an invasive cattail on native wetland plants. Annual Biology Undergraduate Symposium, Dept. of Biology, Loyola University Chicago, Chicago, IL (Poster presentation by first author).
- Geddes, P.** 2006. Experimental evidence that subsidy quality affects the stability of zooplankton communities. Ecological Society of America, Memphis, TN (Oral presentation).
- *Mestrezat, S., **P. Geddes**, and N. C. Tuchman. 2005. Separating competitive and toxic effects of an invasive cattail on native wetland plants. Annual Biology Undergraduate Symposium, Dept. of Biology, Loyola University Chicago, Chicago, IL (Poster presentation by first author).
- Geddes, P.** 2004. Does input rate of terrestrial subsidies affect the structure and dynamics of planktonic communities? Ecological Society of America, Portland, OR (Oral presentation)
- Geddes, P.** 2003. Does terrestrial carbon protect aquatic organisms from UV radiation in ponds? 7th Annual Joint Fellows Conference for the Illinois Minority Graduate Incentive Program, Illinois Consortium for Educational Opportunity Program, and the King-Chavez-Park Future Faculty Fellowship Program. East Lansing, MI (Oral presentation)
- Geddes, P.** 2002. Terrestrial and aquatic links in ponds. 6th Annual Joint Fellows Conference for the Illinois Minority Graduate Incentive Program, Illinois Consortium for Educational Opportunity Program, and the King-Chavez-Parks Future Faculty Fellowship Program. Northbrook, IL (Oral presentation)
- Geddes, P.** 2002. Colored dissolved organic matter (cDOM) subsidies into pond planktonic communities: Stability and species identity. American Society of Limnology and Oceanography. Victoria, British Columbia, Canada (Oral presentation)
- Geddes, P.**, and M. A. Leibold. 2001. Effect of terrestrial subsidies on pond planktonic communities. Ecological Society of America. Madison, WI (Oral presentation)
- Geddes, P.** and J. C. Trexler. 2000. Omnivory and periphyton mats: Uncoupling and quantifying consumer effects in the Florida Everglades. Greater Everglades Ecosystem Restoration Science Conference (GEER), Naples, FL (Poster presentation)
- Chick, J. H., **Geddes, P.**, Pechmann, J. H. K., and J. C. Trexler. 2000. Trophic interactions of large-piscivorous and small-omnivorous fishes in freshwater marshes of the Florida Everglades. Florida Chapter of the American Fisheries Society, Brooksville, FL (Oral presentation by first author)
- Geddes, P.**, and J. C. Trexler. 1999. Omnivory and periphyton mats: Uncoupling and quantifying consumer

- effects in the Florida Everglades. Ecological Society of America. Spokane, WA (Oral presentation)
- Geddes, P.**, and J. C. Trexler. 1998. A method to estimate periphyton ash-free dry mass in the Florida Everglades using field volumetric data. American Society of Limnology and Oceanography / Ecological Society of America. St. Louis, MS (Poster presentation)

Seminars and Invited Talks:

- Cantú, J., **P. Geddes**, J. Hasso, J. Hibdon, S. Patel, K. Underwood, K. Voglesonger, and L. West. 2024. Feathers in Flight: From Hatchlings to Soaring Eagles - Supporting Undergraduate STEM Identity and Engagement at an Under-Resourced Hispanic-Serving Institution. National Diversity in STEM (NDiSTEM) Conference, Society for the Advancement of Chicanos/Latinx and Native Americans in Science (SACNAS), Phoenix, AZ. (Oral presentation)
- Geddes, P.** and V. Rodriguez. 2024. Living Learning Communities at an Urban Hispanic-Serving Institution: Opportunities and challenges. National Learning Communities Conference, Chicago, IL. (Oral presentation)
- Turr, G. D. Katey, M. Foreman, and **P. Geddes**. 2024 Building a Sense of Belonging in Living Learning Communities. National Learning Communities Conference, Chicago, IL. (Panelist presentation)
- Castrejón, A., D. Cloonan-Cortez, V. Gamboa-Turner, **P. Geddes**, I. Pulido, A. Rivera, T. Rosado, M. Sztainberg. 2023. Invited panelist for NEIU Faculty/Staff Roundtable on Latinx Student Empowerment as an HSI. Northeastern Illinois University, Chicago, IL
- Geddes, P.** 2023. Graduate School 101: Essential tips to make your choice easier. TRIO SSS Leading and Learning Week presenter. Northeastern Illinois University, Chicago, IL
- Geddes, P.** 2023. Some strategies and approaches to become more culturally-responsive in science classrooms: Small changes may lead to big gains. Chicago Symposium Series Excellence in Teaching Mathematics and Science: Research and Practice. Chicago, IL
- Geddes, P.** 2023. Culturally relevant strategies and approaches in the classroom: Small steps lead to big gains. Invited keynote speaker at the City Colleges of Chicago Faculty Development Week Kick-Off Day event. Malcolm X College, Chicago, IL
- Cloonan-Cortez, D., Cordell, S., Erber, M., **Geddes, P.**, and Wheeler, D. 2022. Cultivating Students' Sense of Belonging: A Panel Discussion With Award-Winning Faculty. Faculty Institute 2022, Northeastern Illinois University, Chicago, IL.
- Geddes, P.** K. Voglesonger, S. Saszik, and M. Erber. 2021. Towards increasing the participation of underrepresented minority students in STEM: ACE Program. NEIU Faculty Institute. Chicago, IL (Oral presentation)
- Geddes, P.** 2021. Decentering whiteness in science courses: Some strategies and examples. NEIU Faculty Institute. Chicago, IL (Oral presentation)
- Geddes, P.** 2021. Environmental science research in Chicago's urban landscapes. Triton College, River Grove, IL (Oral presentation)
- Geddes, P.** and K. Voglesonger. 2021. Towards increasing the participation of underrepresented minority students in STEM: Opportunities and Challenges. Shedd Aquarium Lunch and Learn. Chicago, IL (Oral presentation)
- Geddes, P.** 2020. Invited panelist for the workshop "Bridging the Diversity Gap in Plant Science Internships". Morton Arboretum, Chicago, IL (Oral presentation)
- Ali, S., S. Bethea, S. Beyda-Lorie, V. Byard, J. A. Castrejón, G. Cortez, A. Elrod, L. Fuller, **P. Geddes**, E. Head, M. Luna-Duarte, O. Perlow, D. Wheeler, and N. Wrinkle. 2020. Conversations in Classroom, Culture, and Curriculum Series: "Moving toward syllabi that serve OUR students" workshop. Center for Teaching and Learning, Northeastern Illinois University, Chicago, IL (Oral presentation)
- Geddes, P.** and E. Head. 2020. Inclusivity in the classroom: Exploring culturally relevant pedagogies for our diverse students. Learn and Lead Symposium, Northeastern Illinois University, Chicago, IL (Oral presentation)
- Fuller, L., **P. Geddes**, and V. Byard. 2019. Faculty conversations on classroom, culture, and curriculum: Inclusive syllabi. Pedroso Center, Northeastern Illinois University, Chicago, IL (Oral presentation)

- Fuller, L., **P. Geddes**, E. Head and D. Wheeler. 2019. Faculty conversations on classroom, culture, and curriculum: Inclusive teaching and advising. College of Arts and Sciences, Northeastern Illinois University, Chicago, IL (Oral presentation)
- Fuller, L., **P. Geddes**, E. Head and D. Wheeler. 2019. Faculty conversations on classroom, culture, and curriculum: Microaggressions, stereotype threat, unconscious bias. College of Arts and Sciences, Northeastern Illinois University, Chicago, IL (Oral presentation)
- Sanders, L., M. Erber, **P. Geddes**, S. Saszik, and K. Voglesonger. 2019. Can a cohort-based research community increase success for students who start college taking developmental courses? National Science Foundation Principal Investigators Meeting, Washington, DC (Poster presentation)
- Geddes, P.** 2019. Identifying cattail species and their hybrids using molecular markers: Lessons learned. Minnesota Water Resources Conference, St. Paul. October 15-17 2019.
- Geddes, P.** 2018. Identifying cattail species and their hybrids using molecular markers: Lessons learned. Biology Colloquium. University of Wisconsin, Madison.
- Geddes, P.** 2018. When what you see may not be what you get: Identifying cattail species and their hybrids using molecular markers. Illinois Natural History Survey and University of Illinois Champaign-Urbana
- Geddes, P.** 2018. Identifying cattail species and their hybrids using molecular markers: Lessons learned. UMISC-NAISMA Conference (Upper Midwest Invasive Species Conference and North American Invasive Species Management Association). Rochester, MN
- Geddes, P.** 2018. Potential for an invasive hybrid involving southern cattail: A case study from WI. Symposium: Preparing Wisconsin's wetlands for a changing world. Wisconsin Wetlands Association Annual Conference, Lake Geneva, WI (Oral presentation).
- Buell, M., J. Slate, **P. Geddes**, and J. Lukasik. 2016. Engaged Learning Experiences for the new University Core Curriculum: Requirements and Potentialities. Learn and Lead Symposium. Northeastern Illinois University, Chicago IL
- Geddes, P.** 2015. Choosing a graduate program and a graduate mentor. Chicago Symposium of the Society for Chicanos and Native Americans in Science Midwest Chapters. Northwestern University, Chicago, IL
- Geddes, P.** 2014. Motivating and engaging students in STEM: Challenges and Opportunities at NEIU. Learn and Lead Symposium on Excellence in Teaching, Leadership, & Service. Northeastern Illinois University, Chicago IL
- Hahn, K., K. Smith, and **P. Geddes**. 2014. Supporting students' writing skills across the curriculum. Learn and Lead Symposium on Excellence in Teaching, Leadership, & Service. Northeastern Illinois University, Chicago IL
- Geddes, P.** 2013. Effects of plant invaders on wetland ecosystems. Invasive Species Seminar Series organized by the Associated Colleges of the Chicago Area. Benedictine University, Lisle, IL.
- Geddes, P.** 2013. When food falls from the sky: Exploring terrestrial subsidies into pond ecosystems. Department of Mathematics, Northeastern Illinois University, Chicago, IL (Invited lecture A. Mubayi's class).
- Geddes, P.** 2013. Quantitative skills in ecology: Examples using mathematical and statistical Models. Workshop for Mathematical and Statistical Modeling with Applications in Natural and Social Science & Finance. Northeastern Illinois University, Chicago, IL.
- Geddes, P.** 2012. What Do We Know About Hybridizing Cattail Species and Their Impacts on Invaded Ecosystems? Indiana Dunes National Lakeshore Science Conference, Gary, IN.
- Geddes, P.** 2012. Hybridizing invasive plant species: Challenges for invaded ecosystems. Northwestern University, Chicago, IL.
- Geddes, P.** 2010. When species don't behave the way we want them to: Cattails as a model system. Biology Department Seminar Series, NEIU, Chicago, IL
- Geddes, P.** 2009. Current state of knowledge regarding hybridization between *Typha latifolia* and *Typha angustifolia*: The problem of *Typha x glauca*. Chicago Wilderness Natural Resources Management Team. Forest Preserve District of Cook County's Crabtree Nature Center, Barrington, IL
- Geddes, P.** 2009. Invasive species and their effects on ecosystems. Dept. of Biology, NEIU, Chicago, IL

- Geddes, P.** 2008. Invasive cattails and their effects on nutrient cycling. Great Lakes Research and Education Center, Indiana Dunes National Lakeshore, Porter, IN
- Geddes, P.** 2006. When food falls from the sky: Exploring terrestrial subsidies into pond ecosystems. Department of Biology, Loyola University, Chicago, IL
- Geddes, P.** 2005. Food web subsidies: Exploring linkages between terrestrial and aquatic systems. Kellogg Biological Station, Michigan State University, Hickory Corners, MI
- Geddes, P.** 2005. Food web subsidies: Exploring linkages between aquatic and terrestrial systems. Department of Biology, DePaul University, Chicago, IL
- Geddes, P.** 2004. Decoupling carbon from UV-protection effects in terrestrial subsidies: Effects on zooplankton communities. 1st Annual Evolutionary Biology Student Symposium, University of Chicago, Chicago, IL
- Geddes, P.** 2004. Terrestrial-aquatic linkages in pond ecosystems. Natural Science Colloquium, Carthage College, Kenosha, WI
- Geddes, P.** 2004. Does subsidy input rate affect plankton communities? Dept. of Education Graduate Assistance in Areas of National Need grant retreat, Indiana Dunes Conference Center, IN
- Geddes, P.** 2003. Omnivore-mediated positive and negative effects on algal mats: A study in the Florida Everglades. Natural History Seminar Series, Department of Ecology and Evolution, University of Chicago, Chicago, IL
- Geddes, P.** 2002. Terrestrial subsidies and the stability of planktonic communities in ponds. Dept. of Education Graduate Assistance in Areas of National Need grant retreat, Indiana Dunes Conference Center, IN
- Geddes, P.** 2000. Incorporating allochthonous inputs into food web models. Dept. of Education Graduate Assistance in Areas of National Need grant retreat, IN Dunes Conference Center, IN
- Geddes, P.** 1999. Omnivory and periphyton mats: Uncoupling and quantifying consumer effects in the Florida Everglades. Dept. of Biological Sciences, Florida International University, Miami, FL

Synergistic Activities / Academic Service:

- **United States Department of Agriculture**, invited panelist (NIFA – AFRI – Invasive species) and ad-hoc reviewer
- **National Science Foundation**, invited panelist (DEB-Ecosystems)
- **Invited reviewer** for EcoEdDL, Ecological Engineering, Wetlands, Ecology, Ecological Applications, Ecological Engineering, Oecologia, Hydrobiologia, Canadian Journal of Fisheries and Aquatic Sciences, Limnology and Oceanography, National Science Foundation (ad-hoc), USDA (ad-hoc), Professional Staff Congress & City University of New York Research Awards Panel (ad-hoc)
- **General Education/University Core Curriculum Committee**, Northeastern Illinois University, Fall 2023- current
- **University Personnel Committee**, Secretary, Northeastern Illinois University, Fall 2019-Spring 2022
- **Faculty Council on Finance and Administration**, Secretary, Northeastern Illinois University, Fall 2019-Spring 2021
- **Subcommittee on Culturally Relevant Pedagogy and Practice**, Council on the Status of Latinxs, member, Northeastern Illinois University, Fall 2019-current
- **Faculty Council on Academic Affairs**, Chair, Northeastern Illinois University, Fall 2016-Spring 2019
- **Graduate College Advisory Committee**, Chair, Northeastern Illinois University, Fall 2011-Spring 2015
- **Environmental Science Working group**, Northeastern Illinois University, Fall 2010 – current.
- **Applied Learning and Engaged Scholarship Committee**, Northeastern Illinois University, Fall 2011-Spring 2012
- **General Education Task Force and Steering Committee member**, Northeastern Illinois University, Spring 2010-Spring 2013
- **Search and screen committee member:** Housing and Residence Life Director (NEIU, 2025), Biologist (Dept. of Biology, NEIU, 2018), Physicist (Dept. of Physics, NEIU, 2015), Biologist (Dept. of Biology,

NEIU, 2014, Search Co-Chair); Associate Dean (College of Graduate Studies and Research, NEIU, 2014); Biologist (Dept. of Biology, NEIU, 2013, Search Co-Chair); Animal Parasitologist (Dept. of Biology, NEIU, 2012, Search Co-Chair); Animal Anatomist and Physiologist (Dept. of Biology, NEIU, 2011); Microbiologist (Dept. of Biology, NEIU, 2010); Environmental Educator (Dept. of Geography & Environmental Studies, NEIU, 2010); Sustainability Director (Center for Urban Environmental Research & Policy, Loyola University Chicago, 2008)

- **SACNAS @ NEIU Chapter mentor**, Society for the Advancement of Chicanos and Native Americans in Science, NEIU, Chicago, IL (Spring 2010-Summer 2018). Award-winning Chapter 2013
- **Invited presenter** (“What we are made of: Exploring DNA”) for Futures Unlimited Program (hands-on science activities for middle-school girls), Oakton Community College, Des Plaines, IL 2014, 2018, 2019
- **Ready to Lead Mentoring Power Hour mentor**, sponsored by Congressional Hispanic Caucus Institute and hosted at NEIU, 2014
- **Poster presentation judge** for Ecology area at SACNAS National Conference, Seattle, WA (Fall 2012)
- **High-school science project mentor** for Taylor Stoffle (Lane Tech; Summer 2012) and Clare Scheib-Feeley (Northside Prep; Summer 2012)
- **MAVEN Chicago Public School Teachers** professional development unit
- **Invited speaker** for Lorca Elementary School, Chicago, IL. 2013. Career paths and invasive species.
- **Chicago Public School Science Career Showcase**, invited panelist; Foreman Middle School, Chicago, IL
- **Member of University Sustainability Council**, Center for Urban Environmental Research & Policy, Loyola University Chicago, Spring 2007 – Summer 2007
- **In-service Ecology training for biology instructors**, Loyola University Chicago, Chicago, IL, December 2006.
- **Undergraduate research mentor**, Loyola University Chicago (10 students, 2 underrepresented minorities, 2004-2009)
- **Tutor and mentor** for minority students in science, University of Chicago, Chicago, IL, 2002.
- **Session organizer and chair**: Geddes, P., and J. T. Lennon. Ecological Implications of Terrestrial Inputs into Lakes and Ponds. American Society of Limnology and Oceanography. Victoria, British Columbia, Canada, 2002
- **Science Fair Judge**, NEIU Spring 2013, NEIU Spring 2012, Junior Science and Humanities Symposium, Loyola University Chicago, March 3, 2007, and Stone Academy, Chicago, IL December 2, 2004
- **Guest Speaker**, “Careers in Ecology.” βββ Biological Honor Society; Loyola University Chicago, 2007

Scientific Collaborators:

John Chick (Great Rivers Field Station, IL Natural History Survey), John Kelly (Loyola University Chicago), Kevin Kuehn (University of Southern Mississippi), Daniel Larkin (Chicago Botanic Gardens), Mathew Leibold (University of Texas Austin), Shane Lishawa (Loyola University Chicago), Brian Ohsowski (Loyola University Chicago), Joel Olfelt (Northeastern Illinois University), Aaron Schirmer (Northeastern Illinois University), Joel Trexler (Florida International University), Nancy C. Tuchman (Loyola University Chicago), María Villamil (University of Illinois Champaign-Urbana).

Graduate Advisors and Post-doctoral Sponsors:

- M.S. Advisor – Joel Trexler, Florida International University, Miami, FL.
- Ph.D. Advisors – Mathew Leibold, University of Texas at Austin, and Tim Wootton, U. of Chicago.
- Post-doctoral Mentor – Nancy Tuchman, Loyola University Chicago.

Thesis Advisor or committee member:

- Courtney Moran, Northeastern Illinois University (Master’s Research Thesis Advisor; Spring 2025-current)

- Eduardo Vaca, Northeastern Illinois University (Master's Research Thesis Committee Member; Fall 2024-current)
- Sara Crow, Northeastern Illinois University (Master's Research Thesis Committee Member; Spring 2024-Fall 2025)
- Phil Nicodemus, Northeastern Illinois University (Master's Research Thesis Advisor; Fall 2017-Spring 2025)
- Les Nagy, Northeastern Illinois University ((Master's Research Thesis Advisor; defended Spring 2021)
- Sadie Norwick, Northeastern Illinois University (Master's Library Thesis Committee Member; defended Spring 2016)
- Andrea (Erber) Pini, Northeastern Illinois University (Master's Research Thesis Advisor; defended Spring 2013)
- Lisa Volesky, Northeastern Illinois University (Master's Research Thesis Advisor; defended Fall 2012)
- Paul Hartzog, Northwestern University / Chicago Botanic Garden (PhD Committee Member; defended Summer 2015)
- Justin Chappelle, Northeastern Illinois University, Dept. of Geography and Environmental Studies (Master's Research Thesis Committee Member; defended Fall 2012)
- Mark Mitchell, Loyola University Chicago (Master's Research Thesis Committee Member; defended Fall 2010)
- Sara Rose, Northeastern Illinois University (Master's Research Thesis Committee Member; defended Fall 2009)

Student mentoring (NEIU):

Courtney Moran (Spring 2025 – current), Zahara Bani-Baker (Spring 2025), Amber Campbell (Spring 2024), Stephanie Ortiz (Spring 2024), Jakaylen Reynolds (Spring 2024), Rosana Williams (Spring 2024), Ana Flores (Fall 2023), Sarai Barahona (Fall 2023), Hayden O'Connell (Fall 2021 – Spring 2022), Alani Crespo (Fall 2021 – Spring 2022), Samantha García (Fall 2018 – Fall 2021), Gloria Ríos (Summer 2019 – Spring 2020), Dylan Wallace (Summer 2018), Teresa Quiñones-Clauson (Summer 2018), Jacob Ballasch (Summer 2018), Allison Kish (Spring 2018 – Fall 2018), Lynnette Murphy (Summer 2016 – Summer 2019), Kayla Martínez-Soto (Summer 2016 – Fall 2018), Giovanni Monterroso (MARC Scholar Fall 2015 – Summer 2017), Sarah Whidden (2013 – 2016), Patricia León (Summer 2016), Daniela Tapia (Summer 2016), Eric Rivas (Summer 2016), Ryan Solís (Summer 2016), Josephine Brylak (Spring 2016), Luis Allende (McNair Scholar 2013 – 2015), Courtney Moran (Summer 2013 – Spring 2015), Joseph Marsili (Summer 2014 – Fall 2014), Daniel Arrecis (Summer 2013), Michelle Guy (Summer 2013), Tracia Spence (Summer 2013), Dayvis Blasini (Spring 2012 – Spring 2013), María Jazmín Ríos (Summer 2012 – Fall 2013), Xochitl López (graduate, Summer 2013), Nancy Salgado (Summer 2013), Chris Sferra (Fall 2012), Christopher Craddock (Summer 2012), Yaiyr Astudillo-Scalia (Spring 2011 – Summer 2012), Jennifer Shaier (Summer 2011), Salina Wunderle (Summer 2011 – Fall 2011), Gina Biasiello (graduate; Summer 2011), Jeny Semoon (Summer 2010), Sumitra Gurung (Summer 2010), JJ Mulliken (Summer 2010), Kristen Veldman (Summer 2010), Steve Ryan (Summer 2010), Matthew Deisinger (Summer 2010), Nousheen Islam (Summer 2010 and 2011).