Alisha Davidson, Ph.D.

39 Guild St. NE

Grand Rapids, MI 49505

Phone (cell): (248) 672-1458

Email: alisha.dahlstrom@gmail.com

**Summary**

Motivated and highly organized professional with 16 years of experience managing environmental and water quality related projects, in a community and academic setting. Ability to obtain grant funding, prepare budgets and project timelines, and liaise well with diverse stakeholders. Enthusiastic about presentation, communication and leadership roles. Adept at quickly identifying and understanding client needs.

**Education**

Ph.D., *Biosecurity under uncertainty: the influence of information availability and quality on expert decision-making for risk outcomes*, National Centre for Marine Conservation and Resource Sustainability, University of Tasmania (2012)

B.S., Aquatic Biology and Environmental Studies, University of California, Santa Barbara (2006)

**Appointments**

2015-current Contractor, Wayne State University, the Nature Conservancy, Great Lakes Commission

* Complete risk assessments for Great Lakes aquatic invasive species (AIS)
* Prepare surveillance list of AIS for state and regional use, with a focus on organisms in trade
* Prioritize and define management goals for established AIS
* Work with regional stakeholders to identify gaps and challenges in invasive aquatic plant management

2014-2019 Michigan Lake and Stream Association, Research and Development Coordinator

* Develop invasive plant management guide
* Identify new membership potential
* Develop inland lake best management practices guide
* Develop grant program for inland lake ecology graduate work

2012-current *Management of Biological Invasions*, Associate Editor

2012-2015 Great Lakes Restoration Initiative project co-investigator and Cooperative Institute for Limnology and Ecosystems Research (CILER) post-doctorate fellow

* Developed and submitted successful project and budget proposal within the first two months of working in the Great Lakes area
* Met rigorous Environmental Protection Agency reporting requirements
* Accountable for meeting project deadlines
* Leads and facilitates work by the project team
* Two-way communication with project advisory board

2008-2012 PhD Candidate, University of Tasmania. Thesis: Biosecurity Under Uncertainty: The Influence of Information Availability and Quality on Expert Decision-Making for Risk Outcomes

2006-2008 Coordinator, West Coast Ballast Outreach Project

* Worked with commercial shipping companies to facilitate uptake of best management practices for ballast water transfer and treatment

**Publications**

Davidson, A.D., Tucker, A.J., Chadderton, W.L., Jensen, E., Weibert, C. and Death, R. (2021) Assessing progress in regulation of aquatic nonindigenous species across the multijurisdictional waters of the Laurentian Great Lakes, with emphasis on the live trade pathways. *Management of Biological Invasions* 12(3): 546-577.

Davidson, A.D., A.J. Tucker, W.L. Chadderton and C. Weibert (2021). Development of a surveillance species list to inform aquatic invasive species management in the Laurentian Great Lakes. *Management of Biological Invasions* 12(2): 272-293.

Tucker, A.J., W.L. Chadderton, G. Annis, A.D. Davidson, J. Hoffman, J.Bossenbroek, S. Hensler, M. Hoff, E. Jensen, D. Kashian, T. Strakosh and S. LeSage (2020). A framework for aquatic invasive species surveillance site selection and prioritization in the US waters of the Laurentian Great Lakes. *Management of Biological Invasions* 11(3):607-632.

Smith, S.D.P., D.B. Bunnell, G.A. Burton Jr., J.J.H. Ciborowski, A.D. Davidson, C.E. Dickinson, L.A. Eaton, P.C. Esselman, M.A. Evans, D.R. Kashian, N.F. Manning, P.B. McIntyre, T.F. Nalepa, A. Pérez-Fuentetaja, A.D. Steinman, D.G. Uzarski, and J.D. Allan (2019).  Evidence for interactions among environmental stressors in the Laurentian Great Lakes.  *Ecological Indicators* 101:203-211.

Davidson AD, A.J. Fusaro, R.A. Sturtevant, E.S. Rutherford, D.R. Kashian (2017) Development of a risk assessment framework to predict invasive species establishment for multiple taxonomic groups and vectors of introduction. *Management of Biological Invasions* 8: 25–36, <https://doi.org/10.3391/mbi.2017.8.1.03>

Hewitt, C.L., M.L. Campbell, A.D. Davidson (2016). Deciphering P values: Beware false certainty. *Science* 353(6299): 551

Davidson, A. D., C. L. Hewitt, and D. Kashian (2016) Understanding Acceptable Level of Risk: incorporating the economic cost of under-managing invasive species. PLoS ONE 10(11): e0141958. doi:10.1371/journal.pone.0141958

Ojaveer, H., B. S. Galil, M. L. Campbell, J. T. Carlton, J. Canning-Clode, E. J. Cook, A. D. Davidson, C. L. Hewitt, A. Jelmert, A. Marchini, C. H. McKenzie, D. Minchin, A. Occhipinti-Ambrogi, S. Olenin and G. Ruiz. (2015) Classification of non-indigenous species based on their impacts: considerations for application in marine management. e1002130.

Davidson, A. D., M. L. Campbell, C. L. Hewitt, and B. Schaffelke (2015). Assessing the impacts of nonindigenous marine macroalgae: an update of current knowledge. *Botanica Marina*: 58(2), 55-79.

Davidson, A., A. Fusaro, and D. Kashian (2015). Using a novel spatial tool to inform invasive species early detection and rapid response efforts. *Environmental Management* 56(1):54-65

Davidson, A.D. and C. L. Hewitt (2014) How often are invasion-induced ecological impacts missed? *Biological Invasions* 16 (5): 1165-1173

Davidson, A.D., C. L. Hewitt, and M. L. Campbell (2013) The role of uncertainty and subjective influences on consequence assessment by aquatic biosecurity experts. *Journal of Environmental Management* 127: 103-113

Dahlstrom, A., Campbell, M.L., and C.L. Hewitt (2012) Mitigating uncertainty using alternative information sources and expert judgement in aquatic non-indigenous species risk assessment. *Aquatic Invasions* 7: 567–575 <http://www.aquaticinvasions.net/2012/AI_2012_4_Dahlstrom_etal.pdf>

Dahlstrom, A., C. L. Hewitt, and M.L. Campbell (2011) A review of international, regional and national biosecurity risk assessment frameworks. *Marine Policy* 35(2): 208-217

Ruiz, G., P. Fofonoff, B. Steves, and A. Dahlstrom (2011) Marine crustacean invasions in North America: a synthesis of historical records and documented impacts. *In:* B. S. Galil, P. F. Clark, and J. T. Carlton (eds) In the Wrong Place - Alien Marine Crustaceans: Distribution, Biology and Impacts. Springer, London, pp 215-250

Hewitt, C.L., M.L. Campbell, A.D.M. Coutts, A. Dahlstrom, D. Shields and J. Valentine (2010) Assessment of marine pest risks associated with biofouling. A final report for the National System for the Prevention and Management of Marine Pest Incursions. NCMCRS Research Report, 223pp

**Conference activity**

Tucker, A., W.L. Chadderton, D. Hamilton, E. Jensen, C. Weibert, A. Davidson, Harmonizing Great Lakes regulated species lists - progress towards reconciling a regional patchwork, Upper Midwest Invasive Species Conference, October 15-18, 2018, Rochester, MN (2018) [Presentation]

Davidson, A.D., Lessons from Wisconsin: How our neighbor state is supporting inland lakes in the fight against AIS, Michigan Lake and Stream Associations Conference, April 21-22, 2017, Boyne, MI (2017) [Presentation]

Alisha Davidson, *Scanning the horizon: identifying new aquatic invasive species and where they may arrive in Michigan,* 2016 Michigan Inland Lakes Convention, April 28-30, 2016, Boyne Falls, MI (2013) [Presentation]

Abigail Fusaro, Alisha Davidson, and Patrice Charlebois, *Expert Engagement in Great Lakes Research*, 56th Annual Conference on Great Lakes Research, June 2-6, 2013, Purdue Indiana (2013) [Session Co-chair]

Davidson, A. *Expert Judgment: Setting the Scene for Use in the Great Lakes Region*, 56th Annual Conference on Great Lakes Research, June 2-6, 2013, Purdue Indiana (2013) [Presentation]

Davidson, A. *Watchlist species: assessing risk for future invaders of the Great Lakes*, 18th International Conference on Aquatic Invasive Species, April 21-25, 2013, Niagara Falls, Ontario, Canada (2013) [Poster]

Dahlstrom, A and Hewitt, CL *Power analysis of nonindigenous algal and crustacean species’ impacts on abundance: does significance testing lead to a false sense of certainty?*, 7th International Conference on Marine Bioinvasions, August 23-25, 2011, Barcelona Spain (2011) [Presentation]

Dahlstrom, A, Campbell, ML and Hewitt, CL *Assessing aquatic nonindigenous species consequence despite gaps in impact data: how uncertainty effects expert decision-making*, 7th International Conference on Marine Bioinvasions, August 23-25, 2011, Barcelona Spain (2011) [Poster]

Dahlstrom, A, Campbell, ML and Hewitt, CL *(Re)thinking Aquatic Non-indigenous Species Impact Assessment*, 17th International Conference on Aquatic Invasive Species, August 29-September 2, 2010, San Diego U.S.A (2010) [Presentation]

Dahlstrom, A. *On common ground: harmonizing frameworks for aquatic invasive species (AIS) impact assessment*. 17th International Conference on Aquatic Invasive Species (2010) [Workshop].

Dahlstrom, A. *On common ground: harmonizing frameworks for aquatic invasive species (AIS) impact assessment.* Australian Marine Sciences Association Annual Conference (2010) [Workshop].

Hewitt, CL and Campbell, ML and Coutts, A and Dahlstrom, A, Consideration for the Development of a Risk Framework for Marine Biofouling, Marine Bioinvaders: agents of change in a changing world Abstract book 6, August 24-27, 2009, Oregon U.S.A., pp. 69. (2009) [Presentation]

Dahlstrom, A. *On common ground: harmonizing frameworks for aquatic invasive species (AIS) impact assessment.* 6th International Conference on Marine Bioinvasions (2009) [Workshop].

**Invited Papers/Speaker**

2014 Speaker, Mapping invasion likelihood and predicted impact: integrating diverse taxa and vector assessments into a spatial model of invasion risk, Grand Valley State University: Annis Water Resources Intitute, Muskegon, MI, Nov 2014

2012 Speaker, Biosecurity Under Uncertainty: The Influence of Information Availability and Quality on Expert Decision-Making for Risk Outcomes, Cooperative Institute for Limnology and Ecosystems Research, Ann Arbor, MI, May 2012

**Awards and Grants**

2015 Michigan Invasive Species Grant Program. $42,400

2012-2015 Mapping Cumulative Risks to Prioritize Prevention Efforts. U.S. EPA Great Lakes Restoration Initiative. Co-PI. $310,995

2012 Wayne State University Post-Doctoral Fellow Award. $40,000

2011 Cooperative Institute for Limnology and Ecosystems Research Postdoctoral research fellowship. $50,000.

2008-2011 Bicknell Scholarship, Australian Maritime College, University of Tasmania. $120,000

2008 Sea Grant Extension Project Special Funding Grant. $10,000

**Invited Reviews**

2012 Panel reviewer for Oregon Sea Grant

2012-current Associate editor for *Management of Biological Invasions*

**Teaching**

Winter 2013 Biology 6190: “Invasive species: science and management”