

# First-Year Research in Earth Sciences: Dunes

## Conference Presentations and Posters – From FYRES Dune Research

### 2019 Conferences:

Duimstra, Peter, Christopher H. Anderson, Katherine C. Benedict, Haleigh I. Bos, Kees VanDerAa, Lesley Vargas, and April Volzer. 2019. “Considering management for a blowout in Kitchel-Lindquist-Hartger Dunes Preserve.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Alma College (Alma, MI), 1 March 2019; poster.

McClellan, Jennifer, Asher Amundson, Keagan DeVries, Chynna Pomaes-Stohr, and Garrett Rhoads. 2019. “Can *Cirsium pitcheri* patterns be used to assess blowout activity?” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Alma College (Alma, MI), 1 March 2019.

Schumerth, Noah, Kelly Adamovicz, Simon E. Detmer, David Martinez Vasquez, Jessie VandeKieft, Madelyn Vander Veen, and Catherine Worthington. 2019. “Distribution of *Tsuga canadensis* and *Adelges tsugae* infestation on a Michigan coastal dune.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Alma College (Alma, MI), 1 March 2019.

### 2018 Conferences:

Dillon, Jesse, Robin Gelderloos, Kathryn Mollison, and Kaitlyn E. Westra. 2018. “Investigation of sediment cells in a Michigan dune system.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Central Michigan University (Mount Pleasant, MI), 9 March 2018; poster.

Jacques, Issac J., Peter Duimstra, Nathan E. Hilbrands, Rachel K.J. Hubka, and Allison Lee. 2018. “Evidence of topographic steering in a small saucer blowout on Lake Michigan.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Central Michigan University (Mount Pleasant, MI), 9 March 2018; poster.

Madrid, Maia, James Byker, Claire C. Costello, and Gabriela R. Lantinga. 2018. “Measurement of alongshore dune sediment budgets and movement.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Central Michigan University (Mount Pleasant, MI), 9 March 2018.

McClellan, Jennifer A., Camilla J. Bjelland, Aidan N. Casillas, Samuel S. Jacobs, Alyssa J. Topping, and Klein D. VerHill. 2018. “Impacts of white-tail deer on a Lake Michigan

parabolic dune system.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Central Michigan University (Mount Pleasant, MI), 9 March 2018; poster.

Wierenga, Matt, Margarete A. Brady, Christopher R. Lantinga, Mitchell Niesar, and Samuel Van Berkel. 2018. “Effect of pathogens on a wooded dune environment.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Central Michigan University (Mount Pleasant, MI), 9 March 2018; poster.

Wong, Kei-Wing, Andrew Crago, Caroline Komodore, and Ty J. Nguyen. 2018. “Humans alter the sediment budget for beach-dune environments in West Michigan.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Central Michigan University (Mount Pleasant, MI), 9 March 2018; poster.

### **2017 Conferences:**

Jacques, I., M. Anderson, A. Bristol, J. Faulkner, J. Polanski. 2017. “Evaluation of stability and restoration of a Michigan coastal dune.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Western Michigan University (Kalamazoo, MI), 10 March 2017; poster.

King, Rebecca L., Matt Wierenga, Caleb E. Boraby, Cameron S. Doan, Tanner J. R. Huizenga, Edward R. Lambert, Hunter Pham, Benjamin W. Steenwyk, Jaimie E. Van De Burg, Jonathan D. Walt, Elizabeth Wiley. 2017. “Predicting slope stability after tree removal in a coastal dune environment.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Western Michigan University (Kalamazoo, MI), 10 March 2017.

Lindemulder, Carolyn R., Jamie E. Atkinson, Araceli Eikenberry, Liam M. O. Ferraby, Taylor M. Grasman, Taylor Hartman, Erick W. Westphal. 2017. “Characteristics of a partially-vegetated slipface as indicators of dune advance.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Western Michigan University (Kalamazoo, MI), 10 March 2017.

Paquette, Alissa J., Shira Davis, Mallory H. Hoatlin, Hannah M. Spaulding, Camille VanderVeen. 2017. “Investigating a boardwalk’s effects on a Lake Michigan coastal dune.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Western Michigan University (Kalamazoo, MI), 10 March 2017; poster.

Praamsma, Stephanie A., Olivia J. den Dulk, Kyle R. Post, Hudson R. Siegers, Ben J. VanderWindt. 2017. “Wrack’s influences on the foredunes of Lake Michigan.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Western Michigan University (Kalamazoo, MI), 10 March 2017.

### **2016 Conferences:**

Etienne, Kaitlyn, Alejandra Crevier, Jack M. Davis, Stephanie Autumn Praamsma, and Adrienne A. Tauscheck. 2016. “Investigating sand fence placement and condition across Lake

Michigan dunes.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Saginaw Valley State University (University Center, MI), 4 March 2016; poster.

Gerber, Kathryn E., Christina J. Bohnet, Lauren Ebels, and Madison B. Springer. 2016. “Environmental assessment of a *Cirsium pitcheri* restored population on the coast of Lake Michigan.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Saginaw Valley State University (University Center, MI), 4 March 2016; poster.

Grevengeod, Lincoln Garret, Sarah DeGraaf, Hans P. Leisman, Megan McNamara, and Sam Sukaria. 2016. “The interactions between blowout features and sand transport.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Saginaw Valley State University (University Center, MI), 4 March 2016; poster.

Messina, Michael G., Nathaniel H. Bos, Ellis Ortiz Chalfant, DeAnna Clum, and Carolyn Lindemulder. 2016. “Dune habitat influences threatened thistle: *Cirsium pitcheri* at Rosy Mound Natural Area.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Saginaw Valley State University (University Center, MI), 4 March 2016.

Reynolds, Charlotte O., Rachel M. Conover, Megumu Jansen, and Nathan Mulder. 2016. “Investigation of variables affecting a rare plant species, *Cirsium pitcheri*, in P.J. Hoffmaster State Park.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Saginaw Valley State University (University Center, MI), 4 March 2016; poster.

Williams, Matthew Lee, Anna Clousing, Samuel Latimer, Jennifer A. McClellan, and Andrew D. Van De Walker. 2016. “Access denied? Physical accessibility of West Michigan’s coastal dunes.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Saginaw Valley State University (University Center, MI), 4 March 2016; poster.

## **2015 Conferences:**

Gerber, Kathryn E., Melanie A. Compagner, Rachel L. DeHaan, Jessica A. Petrie, and Jen-Lyn Sin. 2015. “Efficacy of planted vegetation and a sand fence at Castle Park Dune Preserve.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Andrews University (Berrien Springs, MI), 13 March 2015.

Hilbrands, Brian D. Jesse L. Damsteegt, Brian P. Hess, Madeline G. Hughey, and Jake A. McCusker, Jacob C. Van Wyk. 2015. “The impact of deer on unmanaged trails in North Ottawa Dunes County Park.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Andrews University (Berrien Springs, MI), 13 March 2015.

Hughey, Audrey, Jesse Dillon, Chace Scholten, Chloe Selles, Philip Simonton, and Arie Venema. 2015. “Natural and anthropogenic impacts of *Cirsium pitcheri* at Rosy Mound Natural Area.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Andrews University (Berrien Springs, MI), 13 March 2015; poster.

LePage, Gabe, Bastian Bouman, Benjamin Johnson, Ryan Kiper, and Madison Smith. 2015. "Boardwalk interactions with a Lake Michigan dune system." Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Andrews University (Berrien Springs, MI), 13 March 2015

Strydhorst, Natasha, Samuel Franklin, Lemuel Ong and Aaron Pemberton. 2015. "Characteristics of a natural vegetation population on Lake Michigan foredunes." Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Andrews University (Berrien Springs, MI), 13 March 2015; poster.

Swineford, Jacob T., Issac J. Jacques, Manny L. Schrottenboer, Matt Wierenga, and Grant Hoekwater. 2015. "Long-term effects of planted *Ammophila breviligulata* on North Beach dune." Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Andrews University (Berrien Springs, MI), 13 March 2015; poster.

### **2014 Conferences:**

Burkley, Katie, Abigail Hocking, Barak Howell, Eric Medema, Joel Newswanger, Cal Thorne and Angela Tiemeyer. 2014. "Blowouts and unmanaged trails in Hoffmaster State Park, Michigan." Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Oakland University (Rochester, MI), 28 February 2014; poster.

Liu, Chengbi, Lincoln Grevenoged, Matthew Haugh, Megan Koopman, Isla Peterson and Logan Walters. 2014. "Investigating the relationship between deer and trails on coastal sand dunes." Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Oakland University (Rochester, MI), 28 February 2014; poster.

Strydhorst, Natasha, Carolina Angulo, Anna Camilleri, Ethan DeVries and Anna Selles. 2014. "Dune environment influences on a rare Great Lakes thistle." Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Oakland University (Rochester, MI), 28 February 2014; poster.

Swineford, Jacob T., Nichole DeVries, Joshua DeVries, Jonathan D. Gorter, John T. Spykman and Jacob J. Santucci. 2014. "Impacts of three autumn storms on a Lake Michigan foredune." Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Oakland University (Rochester, MI), 28 February 2014; poster.

### **2013 Conferences:**

Arevalo, Joseph, Taylor Emmons, Sarah Harefa, Ashley Van Wyk, Jacob Zondag. 2013. "Evaluating the effectiveness of management techniques at Mt. Pisgah." North-Central Section of the Geological Society of America (Kalamazoo, MI), 2-3 May 2013.

Bleeker, Tyler, Cassandra Miceli, Josh Nieuwsma, Eleighna Prather. 2013. "Efficacy of sand fences in stabilizing a steep active dune blowout." North-Central Section of the Geological Society of America (Kalamazoo, MI), 2-3 May 2013.

Brinks, Linden, Kathryn Gerber, Jen-Li Sin, Jacob Swineford, Alek Zapata. 2013. "The effects of two fall storms on a Lake Michigan foredune." North-Central Section of the Geological Society of America (Kalamazoo, MI), 2-3 May 2013.

Karsten, James, Gabriel LePage, Michael Messina, Daniel Shisler, Jory Smith. 2013. "Sand transport and vegetation on two Lake Michigan coastal blowouts." North-Central Section of the Geological Society of America (Kalamazoo, MI), 2-3 May 2013.

Musch, Steven, Elaine Hilverda, Evan Legge, Natasha Strydhorst, Lucas VanderBilt. 2013. "Interactions between dune trails and *Cirsium Pitcheri* habitat." North-Central Section of the Geological Society of America (Kalamazoo, MI), 2-3 May 2013.

Parkin, Ann, Alexander Kurtz, Krystal Perry, Veronika Schultz, and Matthew Williams. 2013. "Unmanaged trails and management on a Great Lakes dune." North-Central Section of the Geological Society of America (Kalamazoo, MI), 2-3 May 2013.

## **2012 Conferences:**

Maike, Chris A., Kyle K. Whalley, Gideon E. Berghuis, Luke K. Cousino, John Elenbaas, James W. Karsten, and Jessica A. Trojanowski. 2012. "Interactions between topography and Oriental Bittersweet at Castle Park Dune, Michigan." Annual Meeting of the Michigan Academy of Science, Arts and Letters, Alma College (Alma, MI), 2 March 2012.

Parkin, Ann, Catherine Hilbrands, Joanne Hulst, Elizabeth Stranzenbach and Sam Vannette. 2012. "Analysis of dune management efforts at North Beach Park dune, Michigan" Annual Meeting of the Michigan Academy of Science, Arts and Letters, Alma College (Alma, MI), 2 March 2012.

Stratz, Jared M., Rian R. Bylsma, Sydney B. Carrick, Hannah M. Damsteegt and Timothy J. Nykamp. 2012. "Interactions between blowouts and trails in a Lake Michigan coastal system." Annual Meeting of the Michigan Academy of Science, Arts and Letters, Alma College (Alma, MI), 2 March 2012; poster.

Wright, Vashan and Deanna van Dijk. 2012. "Can the use of Hsu's model for sand transport rates help scientists understand Lake Michigan coastal dunes?" Annual Meeting of the Michigan Academy of Science, Arts and Letters, Alma College (Alma, MI), 2 March 2012; poster.