# Jason M. Tallant

Data Manager and Research Scientist

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## Currently

I’m a Data Manager and Research Scientist at the [University of Michigan Biological Station](http://https://lsa.umich.edu/umbs/), based in the Ann Arbor, MI during the Fall and Winter semesters and the Pellston Campus during Spring and Summer semesters. I design, maintain and utilize MySQL databases and a Drupal based content management system for data archival and publication. Coordinate generation of metadata for data generated through research at the field station. Develop and coordinate GIS resources for students and researchers. Provide domain expertise to research projects at field station and for student projects.

## Employment

2013- **University of Michigan Biological Station** Research Area Specialist (data manager and research scientist)

2005-2013 **City of Ann Arbor, Natural Area Preservation** Natural Areas Technician

2004-2005 **City of Ann Arbor, Natural Area Preservation** Conservation Crew Leader

2002-2004 **City of Ann Arbor, Natural Area Preservation** Conservation Worker

Summer 2002 **University of Michigan Biological Station** Research Assistant

## Education

2007-2011 **Eastern Michigan University** MSc Geography and Geographic Information Systems (supervisors: William Welsh & Yichun Xie)

1998 - 2002 **Western Michigan University** BSc Biology and Environmental Studies

## Publications

### Journals

2019

Robert T. Fahey, Jeff W. Atkins, Christopher M. Gough, Brady S. Hardiman, Lucas E. Nave, **Jason M. Tallant**, Knute J. Nadehoffer, Christoph Vogel, Cynthia M. Scheuermann, Ellen Stuart‐Haëntjens , Lisa T. Haber , Alexander T. Fotis, Raleigh Ricart, Peter S. Curtis 2018, Defining a spectrum of integrative trait-based vegetation canopy structural types. **Ecology Letters**, (2019)

Jennifer J. Uehling, **Jason Tallant**, Stephen Pruett-Jones 2019, Status of naturalized parrots in the United States. **Journal of Ornithology**, 160(3)

2017

Patricia A. Soranno, Linda C. Bacon, Michael Beauchene, Karen E. Bednar, Edward G. Bissell, Claire K. Boudreau, Marvin G. Boyer, Mary T. Bremigan, Stephen R. Carpenter, Jamie W. Carr, Kendra S. Cheruvelil, Samuel T. Christel, Matt Claucherty, Sarah M.Collins, Joseph D. Conroy, John A. Downing, Jed Dukett, C. Emi Fergus, Christopher T. Filstrup, Clara Funk, Maria J. Gonzalez1, Linda T. Green, Corinna Gries, John D. Halfman, Stephen K. Hamilton, Paul C. Hanson, Emily N. Henry, Elizabeth M. Herron, Celeste Hockings, James R. Jackson, Kari Jacobson-Hedin, Lorraine L. Janus, William W. Jones, John R. Jones, Caroline M. Keson, Katelyn B.S. King, Scott A. Kishbaugh, Jean-Francois Lapierre, Barbara Lathrop, Jo A. Latimore, Yuehlin Lee, Noah R. Lottig, Jason A. Lynch, Leslie J. Matthews, William H. McDowell, Karen E.B. Moore, Brian P. Neff, Sarah J. Nelson, Samantha K. Oliver, Michael L. Pace, Donald C. Pierson, Autumn C. Poisson, Amina I. Pollard, David M. Post, Paul O. Reyes, Donald O. Rosenberry, Karen M. Roy, Lars G. Rudstam, Orlando Sarnelle, Nancy J. Schuldt, Caren E. Scott, Nicholas K. Skaff, Nicole J. Smith, Nick R. Spinelli, Joseph J. Stachelek, Emily H. Stanley, John L. Stoddard, Scott B. Stopyak, Craig A. Stow, **Jason M. Tallant**, Pang-Ning Tan, Anthony P. Thorpe, Michael J. Vanni, Tyler Wagner, Gretchen Watkins, Kathleen C. Weathers, Katherine E. Webster, Jeffrey D. White, Marcy K. Wilmes, Shuai Yuan *et al.* LAGOS-NE: A multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of U.S. lakes. **GigaScience**, Volume 6, Issue 12:1â“22.

Lishawa Shane C., Carson Brendan D., Brandt Jodi S., **Tallant Jason M.**, Reo Nicholas J., Albert Dennis A., Monks Andrew M., Lautenbach Joseph M., Clark Eric 2017. Mechanical Harvesting Effectively Controls Young Typha spp. Invasion and Unmanned Aerial Vehicle Data Enhances Post-treatment Monitoring. **Frontiers in Plant Science** 8:619.

2016

Howey MCL, Sullivan FB, **Tallant J**, Vande Kopple R, Palace MW. 2016. Detecting Precontact Anthropogenic Microtopographic Features in a Forested Landscape with Lidar: A Case Study from the Upper Great Lakes Region, AD 1000-1600. **PLOS ONE**. 11(9):e0162062

2014

Nave L.E, Sparks J.P, Le Moine J., Hardiman B.S, Nadelhoffer K.J, Tallant J.M, Vogel C.S, Strahm B.D, Curtis P.S. 2014. Changes in soil nitrogen cycling in a northern temperate forest ecosystem during succession. Biogeochemistry. 121: 471.

### Data

## Presentations

### Talks

2017

*Developing an Enterprise GIS to Support Collections Management, Teaching, and Research* (Digital Data in Biodiversity, Ann Arbor, MI)

2016

*Comparison of Aerial and Terrestrial Remote Sensing Techniques for Quantifying Forest Canopy Structural Complexity and Estimating Net Primary Productivity* (AGU, San Fransisco, CA)

*Data management at field stations large and small* (Organization of Biological Field Stations Meeting, Sitka, AK)

*Aerial Photo-interpretation, GIS Tools and Workflows for Documenting Scale Appropriate Monitoring of Restoration Activities* (The Stewardship Network, Lansing, MI)

2014

*Distributed, Disconnected Editing for Remote Field Work* (GIS Day, Ann Arbor, MI)

### Posters

2017 Using mobile GIS for gathering and mapping field data of deer impacts on vegetation

## Technical skills

* Data Curation & Archival
* Data Wrangling
* Data visualisation
* GIS
* Python
* PHP/Drupal
* HTML & CSS
* R
* Git
* Bash/Shell Cmd Line

## Projects

2016-2019

*Increasing biodiversity and habitat complexity in invaded wetlands* (Environmental Protection Agency: Great Lakes Restoration Initiative - Invasive species prevention and control)

2016-2017

*Burn Chronosequence Continuation at University of Michigan Biological Station* (University of Michigan Biological Station)

2016-2017

*Continuing Organismal Collections and Observations Digitization, Management, and Discovery at the University of Michigan Biological Station* (University of Michigan: Instructional Support Services - New Initiatives/New Infrastructure)

2014-2017

*Furthering capacity to maintain high quality coastal wetlands in Northern Michigan* (Environmental Protection Agency: Great Lakes Restoration Initiative - Invasive species prevention and control)

2013-2014

*Organismal Collections and Observations Digitization, Management, and Discovery at the University of Michigan Biological Station* (New Initiatives/New Infrastructure, University of Michigan Instructional Support Services)

## Links

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## References

Available on request.