# Biographical Sketch - Zachary Brym

Title: Assistant Professor (Jan 2017-Present)

Department: Tropical Research and Education Center, Agronomy Department, Institute of Food and Agricultural Sciences, University of Florida

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## PROFESSIONAL PREPARATION

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| **University** | **Location** | **Major** | **Degree & Year** |
| Utah State University | Logan, UT | Ecology | Ph.D. 2016 |
| University of Michigan | Ann Arbor, MI | Natural Resources and Environment | M.S. 2011 |
| University of Michigan | Ann Arbor, MI | Ecology and Evolutionary Biology | B.S. 2008 |

## PUBLICATIONS

1. Gloaguen, R.M., Rowland, D.L., Brym, Z.T., Wilson, C.H., Chun, H.C., Langham, R. (2021). “A method for developing irrigation decision support systems de novo: Example of sesame (Sesamum indicum L.) a known drought tolerant species.” Agricultural Water Management. 243: 106435. https://doi.org/10.1016/j.agwat.2020.106435.
2. Fall TG, Heiden K, Smyth A, Brym Z. (2020). Greenhouse Gas Emissions from Subtropical Agriculture Fields Decrease Over Time. Experimental Results, 1–8. https://doi.org/10.1017/exp.2020.48.
3. Berthold EC, Yang R, Sharma A, Kamble SH, Kanumuri SR, King TI, Popa R, Freeman JH, Brym ZT, Avery BA, McCurdy CR. (2020). Regulatory sampling of industrial hemp plant samples (Cannabis sativa L.) using UPLC-MS/MS method for detection and quantification of twelve cannabinoids. Journal of Cannabis Research, 2, 42. https://doi.org/10.1186/s42238-020-00050-0
4. Gloaguen, R. M., Couch, A., Rowland, D. L., Bennett, J., Hochmuth, G., Langham, D. R., Brym Z. T. (2019). “Root life history of non-dehiscent sesame (Sesamum indicum L.) cultivars and the relationship with canopy development,” Field Crops Research, 241, 107560. DOI: 10.1016/j.fcr.2019.107560
5. Brym, Z.T., & S.K.M., Ernest., (2018). “Process-based allometry describes the influence of management on orchard tree aboveground architecture.” PeerJ, 6:e4949. DOI 10.7717/peerj.4949

## SYNERGISTIC ACTIVITIES

1. Development of an irrigation support tool for sesame farmers with information on sesame root growth responses to air temperature and soil moisture, August 2020.
2. Introducing Agroecology educational materials and workshop, June 2018.
3. Participation in the UF Data Symposium to integrate agricultural data collection and information with the best practices of data management, analysis and storage, March 2018.
4. Member of UF Agroecology Program leadership team tasked with developing curriculum and research projects across agricultural and natural resource systems to promote sustainable management decisions, beginning February 2017.
5. Establish Data Carpentry for Biologists Website and Curriculum for training graduate students and industry professionals in best practices for data management, analysis, and storage, January 2017
6. Invited guest for interview at Utah Public Radio to describe the physiology and management of tart cherry trees as they relate to the evolution of natural trees, April 2016.