

## **THOMAS GLOSE**

340 Linwood Ave • Apartment 1 • Buffalo, NY 14209  
(315) 877 6835 • thomasgl@buffalo.edu

### **Education**

- 2014-Present Ph.D. University at Buffalo, Buffalo, NY  
Geology (Advisor: C.S. Lowry)  
GPA: 3.985
- 2014 B.A. State University of New York at Geneseo, Geneseo, NY  
Geophysics (Advisor: S.D. Giorgis)  
GPA: 3.27

### **Professional Positions**

- Spring 2019 Research Assistant, University at Buffalo
- Spring 2018-Fall 2018 Teaching Assistant, University at Buffalo
- Fall 2017 Research Assistant, University at Buffalo
- 2016- 2017 Teaching Assistant, University at Buffalo
- 2015-2016 Interdisciplinary Science and Engineering Partnership, Doctoral Assistant,  
University at Buffalo
- Summer 2015 Research Mentor, Western New York Watershed Network, University at Buffalo
- 2014-2015 Teaching Assistant, University at Buffalo
- Spring 2014 Mining Geologist (Intern), Hampton Corners Mine, American Rock Salt  
Corporation
- 2013-2014 Undergraduate Research Assistant, State University of New York at Geneseo
- 2013-2014 Teaching Assistant, State University of New York at Geneseo
- 2013-2014 Learning Center Aide, State University of New York at Geneseo

### **Awards**

- DTS Pilot Study Recipient, Center for Transformative Environmental Monitoring Programs,  
Spring 2018
- Reginald H. Pegrum Graduate Teaching Award, Spring 2017, University at Buffalo
- Instrumentation Discovery Travel Grant, 2016-2017, Consortium of Universities for the  
Advancement of Hydrological Sciences, Inc.
- Mark Diamond Research Fund, Fall 2016, University at Buffalo

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### Publications

#### In Press

Glose, T.J., C.S. Lowry, M.B. Hausner. 2019, Effective hydraulic conductivity: a depth-integrated parameter for analyzing groundwater interactions. Groundwater.

#### In Review

Glose, T.J., C.S. Lowry, M.B. Hausner. 2019, Limits on the Use of the Amplitude Ratio Method in Groundwater-Surface Water Interactions. Water Resources Research.

#### In Preparation

Durant, B., H. Suk., T.J. Glose, C.S. Lowry, G. Koudelka, L. Sassoubre. 2019, Applying microbial community analysis to investigate spatial and temporal variability between surface waters, groundwater and beaches with varying water quality.

#### Abstracts and Conference Presentations (by year)

*These are short (1-2 paragraph) abstracts that are reviewed prior to acceptance as oral or poster presentations at national conferences. An asterisk (\*) indicates an undergraduate author who was mentored.*

#### 2019

Fennelly, P.\*, C.S. Lowry, T.J. Glose. 2019. Improving Estimates of Streambed Wetted Perimeter from UAV: A System for the Remote Quantification of Stream Discharge. Geological Society of America Northeastern Section Meeting, Portland, ME. [Poster].

#### 2018

Glose, T.J., C.S. Lowry, J. Cole, H. Galbraith, M.A. Briggs, M.B. Hausner. 2018. Combining Multiple Sampling Methods to Quantify Groundwater-Surface Water Exchange at a Previously Characterized Field Site. American Geophysical Union Fall Meeting, Washington D.C. [Oral].

Glose, T.J., C.S. Lowry, M.B. Hausner. 2018. Low Flux Limitations on the Use of Heat as a Tracer in Groundwater-Surface Water Interactions. Geological Society of America Annual Meeting, Indianapolis, IN. [Oral].

#### 2017

Glose, T.J., C.S. Lowry, M.B. Hausner. 2017, What Are We Missing? Insights From Quantifying Effective Hydraulic Conductivity at the Groundwater-Surface Water Interface Using Point and Synoptic Measurement Techniques. American Geophysical Union Fall Meeting, New Orleans, LA. [Poster]

#### 2016

Glose, T.J., M.B. Hausner, C.S. Lowry. 2016, Numerical Modeling of Artificial Recharge: Determining Spatial/Temporal Sampling Resolution to Quantify Infiltration Rates and Effective Hydraulic Conductivity. American Geophysical Union Fall Meeting, San Francisco, CA. [Oral]

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### **2015**

- Coburn, J.E.\*, J.M. Vitali\*, T.J. Glose, and C.S. Lowry. 2015, Analyzing Water Quality Over Variable Flow Conditions in Rural and Suburban Streams. Geological Society of America Annual Meeting, Baltimore, MD. [Poster]
- Crumlish, J.R.\*, L.R. Pereira Dos Santos\*, T.J. Glose, and C.S. Lowry. 2015, Evaluating the Impact of Hydrology and Combined-Sewer Overflows on Urban Beach Closures. Geological Society of America Annual Meeting, Baltimore, MD. [Poster]
- Glose, T.J., M.J. Malzone, and C.S. Lowry. 2015, Using Numerical Modeling to Quantify the Error Associated with Violating Three Common Assumptions of Using Heat as a Tracer. Geological Society of America Annual Meeting, Baltimore, MD. [Oral]
- Kanaley, C.\*, S. Gonzalez, C. Flanagan\*, T. Glose, R.M. Allen-King, and C.S. Lowry. 2015, Comparing Urban and Agricultural Nutrient Mass Flux into the Lower Great Lakes. Geological Society of America Annual Meeting, Baltimore, MD. [Poster]
- Luh, N.M.\*, J. Ewanic\*, Pereira Dos Santos, L.R.\*, T.J. Glose, and C.S. Lowry. 2015, Relationship Between Stream Stage and Discharge on Major Tributaries that Enter Lake Erie. Geological Society of America Annual Meeting, Baltimore, MD. [Poster]
- Stearns, C., T.J. Glose, J. Crumlish\*, K. Swensen, and C.S. Lowry. 2015, Developing Real World Examples of Earth Science Reference Tables for Urban Schools. Geological Society of America Annual Meeting, Baltimore, MD. [Poster]
- Tuttle, C.T.\*, J.R. Crumlish\*, M.T. Canty\*, T.J. Glose, and C.S. Lowry. 2015, Analyzing Daily Variability in E. Coli Concentrations in an Urban Stream. Geological Society of America Annual Meeting, Baltimore, MD. [Poster]

### **2013**

- Glose, T.J., M. Ward, E. Horsman, and S.D. Giorgis. 2013, Paleomagnetic Insight Into the Emplacement History of the Northeastern Flank of Mount Pennell, Henry Mountains, Utah. Geological Society of America Denver, CO. [Poster]

## **Manuscript review for journals**

Hydrological Processes

## **Professional Memberships**

American Geophysical Union  
Geological Society of America  
National Groundwater Association