

Lauren E Grimley
Research Scientist: Water Resources Engineering
The Water Institute of the Gulf

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Education

M.S. in Civil & Environmental Engineering, May 2018
University of Iowa, Iowa City, Iowa

B.S. in Engineering, Civil & Environmental Concentration, May 2016
Calvin College, Grand Rapids, Michigan

Research Interests:

Urban hydrology and hydraulics, hyper-resolution modeling, flood forecasting, flood risk management, natural hazards assessment, energy-water nexus

Professional Experience:

The Water Institute of the Gulf <ul style="list-style-type: none">• <i>Research Scientist: Water Resources Engineering</i>	2018-Present
Iowa Flood Center <ul style="list-style-type: none">• <i>Graduate Research Assistant</i>	2016-2018
CUAHSI National Water Center Innovators Program <ul style="list-style-type: none">• <i>Course Coordinator</i>• <i>Research Fellow</i>	2018 Summer 2017
Half Associates <ul style="list-style-type: none">• <i>Water Resources Engineering Intern</i>	Summer 2016

Related Experience:

Calvin Energy Recovery Fund <ul style="list-style-type: none">• <i>Intern</i>	2014-2016
IDS Engineering Group <ul style="list-style-type: none">• <i>Civil Engineering Intern</i>	2014-2015
H & H Resources, Inc. <ul style="list-style-type: none">• <i>Water Resources Engineering Intern</i>	Summer 2013

Technical Tools:

- Modeling Software - XPSWMM, HEC-RAS, HEC-HMS, GSSHA
- Software & Programming Languages - ArcGIS, QGIS, MATLAB, RStudio, Python

Awards, Honors:

- Graduate & Professional Student Government Travel Grant, University of Iowa, Dec 2017
- Center for Global and Regional Environmental Research (CGRER) Graduate Student Travel Award, University of Iowa, July 2017
- American Council of Engineering Companies (ACEC) a/e ProNet Engineering Scholarship, 2016
- ACEC of Michigan Scholarship, 2015 & 2016
- American Society of Civil Engineers West Michigan Branch Scholarship, 2015-16
- Calvin College Engineering & Sustainability Scholarship, 2015-16
- Calvin College Alumni Scholarship, Jan 2015

Teaching Experience:

Teaching assistant for Fluid Mechanics (ENGR 2510) at the University of Iowa. Instructed fluid dynamics lab experiments, uncertainty analysis, and technical report writing. Spring 2018.

PRESENTATIONS AND PUBLICATIONS

1. Aristizabal F., Grimley L. E., et al. 2018. National Water Centers Innovators Program Summer Institute Report. Consortium of Universities for the Advancement of Hydrologic Science, Inc. Technical Report No 15.
2. Grimley, L.E. (2016). Urban and Rural Flood Forecasting: A case study of a small town in Iowa (master's thesis). Available from ProQuest Dissertations and Theses database. (UMI No. 10752395)
3. Grimley, L.E., et. al, Grid vs Mesh: The case of Hydrologic Modeling in Urban Landscapes, American Geophysical Union (AGU) Fall Meeting, New Orleans, LA, December 11-15, 2017.
4. Grimley, L.E., D.T. Tijerina, M. Khanam, E.D. Tiernan, Hyper-resolution Modeling in Urban Landscapes, Johnson J.M, Coll J M, et al. 2017. National Water Centers Innovators Program Summer Institute Report. Consortium of Universities for the Advancements of Hydrologic Science, Inc. Technical Report No 14.
5. Grimley, L.E., D.T. Tijerina, M. Khanam, E.D. Tiernan, Unstructured Mesh Resolution in an Urban Watershed, CUAHSI Hydroinformatics Conference, University of Alabama, Tuscaloosa, AL, July 25-27, 2017.
6. Urban Hydrology, Poster Presentation, Iowa Legislative Breakfast, Des Moines, IA, December 2016