

JESSLYN LANDGREN

Graduate Fellow • University of Iowa • Department of Geography

SUMMARY & RESEARCH INTERESTS

Geoinformatics graduate student with a background in environmental engineering, interested in working in areas at the intersection of geography, spatial sciences, human computer interaction, and user experience.

CONTACT INFO

Department of Geography • University of Iowa
316 Jessup Hall • Iowa City, IA • 52242
✉ jesslyn-landgren@uiowa.edu
🌐 www.jesslynlandgren.com

EDUCATION

University of Iowa (Iowa City, IA)
M.S. Geoinformatics
Graduate Certificate in Geoinformatics
Advisor: Dr. Caglar Koylu

August 2014 - Present
Expected July 2016

North Carolina State University (Raleigh, NC)
Non-Degree Studies in Biological and Agricultural Engineering, Geographic Information Systems

August 2012 – May 2014

Georgia Institute of Technology (Atlanta, GA)
B.S. Environmental Engineering

August 2006 – May 2010
Awarded May 2010

RESEARCH EXPERIENCE

NSF IGERT Trainee, Graduate Fellow

August 2014 - Present

Geoinformatics for Environmental and Energy Modeling and Prediction (University of Iowa)

- Participate in interdisciplinary research projects with graduate fellows from other departments
 - Fall 2014 project: Determining locations of potential frac sand mining sites in Winneshiek County, Iowa in collaboration with the Iowa Initiative for Sustainable Communities (IISC)
- Complete additional training and discussions in science communication & research ethics

Undergraduate Researcher

August 2008 – May 2008

University of North Carolina at Charlotte (Charlotte, NC)
Department of Civil and Environmental Engineering

- Summer Research Experience for Undergraduates (SREU) program under Dr. James Bowen
 - Performed maximum pollutant load simulation for Cape Fear River
 - Developed and implemented field data collection system to evaluate and study success of SolarBee mixing technology in Lake Don T. Howell

PRESENTATIONS

Jesslyn Landgren. *Revealing Spatiotemporal Patterns in Voting Behaviors through Twitter.* 2016 Annual Meeting of the Association of American Geographers (AAG). San Francisco, CA, USA

March 29, 2016

Jesslyn Landgren. *Revealing Spatiotemporal Patterns in Voting Behaviors through Twitter: the 2014 Midterm Election in Atlanta, Georgia.* Fourth Annual Geoinformatics for Environmental and Energy Modeling and Prediction (GEEMaP) Workshop. Iowa City, IA, USA

October 17, 2015

Austen Smith, Sean Young, **Jesslyn Landgren**, Zach Bales, Cristina Muñoz. *Modeling and Predicting Mine Sites for Hydraulic Fracturing Silica Sand in Northeastern Iowa.* Third Annual GEEMaP Workshop. Iowa City, IA, USA

October 18, 2014

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TEACHING EXPERIENCE

Teaching Practicums

(Completed for the Graduate Certificate in College Teaching)

Observed course lectures, met with instructor throughout the semester to discuss course development, teaching strategies, and taught an assigned unit under supervision of course instructor.

GEOG:1050 – Foundations of GIS

Spring 2016

- Supervised by Dr. Caglar Koylu
- Taught lecture on Geostreaming and Twitter Data Collection lab

Informal Teaching Practicum Experience

(Additional practicum experience outside of the requirements for the Graduate Certificate in College Teaching)

GEOG:1065 – Introduction to Spatial Analysis

Spring 2015

- Supervised by Dr. James Tamerius
- Taught Introduction to Linear Regression lectures

PRIOR PROFESSIONAL EXPERIENCE

Associate Engineer II

June 2013 – July 2014

Associate Engineer I

June 2011 – June 2013

Environmental Consulting & Technology, Inc. (Iowa City, IA)

International Transmission Company (ITC) Environmental Team

- Primary engineer responsible for maintaining asset information and reporting for ITC Midwest and ITC Great Plains, including: Spill Prevention Control and Countermeasure (SPCC) plans, environmental audit results, site layout plans, PCB equipment listing, and Tier II reporting
- Provided environmental support to ITC staff and engineering support to rest of ITC Environmental Team. Assisted with site audits, project management, and report development as needed.

Junior Engineering Intern

August 2009 – May 2009

SCANA Corporation (Cayce, SC)

Corporate Environmental Services

- Provided general departmental support across multiple projects including:
 - o Wetland delineation for corridor pipeline project
 - o EMS training and implementations at coal-fired plant test site
 - o Fleet services facility emissions calculations
 - o Research and web documentation of applicable local environmental regulations

HONORS AND AWARDS

NSF IGERT Fellowship Award

August 2014 - Present

Geoinformatics for Environmental and Energy Modeling and Prediction (GEEMaP),
University of Iowa

- Awarded fellowship support from the National Science Foundation (NSF) for two years and placement within Integrative Graduate Education and Research Traineeship (IGERT) GEEMaP program at the University of Iowa

President's Scholar

August 2006 – May 2010

Georgia Institute of Technology

- Awarded to the top 2% of high school students applying to Georgia Tech

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SKILLS

ArcGIS, Python, Twitter API, Java, Tableau, HTML/CSS, JavaScript, AutoCAD

ORGANIZATIONS

Association of American Geographers (AAG)

May 2014 - Present

Association for Computing Machinery (ACM)

Sept 2014 – Present

Cartography and Geographic Information Society (CaGIS)

October 2014 - Present

SERVICE & COMMUNITY OUTREACH

Graduate Volunteer - Poster Judge

August 2014 - Present

Undergraduate Research Festival, University of Iowa

- Judged one event every Fall and Spring semester

Guest Presenter

May 28th, 2015

AP Geography Course, Washington High School (Cedar Rapids, Iowa)

- Coordinated guest presentations from self and other GEEMaP students on graduate level research topics to local high school freshmen
- Conducted as part the GEEMaP Spring 2015 semester focus on science communication to the public

Graduate Student Representative

Fall 2015 – Spring 2015

Graduate Program Committee, Geography Department, University of Iowa

Graduate Student Committee Member

Fall 2015 – Spring 2015

President's Council on Teaching, University of Iowa

Graduate Student Committee Member

Fall 2015 – Spring 2015

Family Issues Charter Committee, University of Iowa

Alumni Interviewer and Region Chair

2011-Present

Georgia Tech President's Scholarship Program

- Chair of the Midwest regional interview committee
- Schedule, coordinate and conduct in-person and video interviews of high school students selected as semi-finalists for the scholarship
- Coordinate committee members and interviewer evaluations