

# Jacob Dein

curriculum vitae

Department of Geography  
Burchfiel Geography Building  
University of Tennessee, Knoxville  
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## EDUCATION

- 2020 (expected)  
M.S. Geography  
University of Tennessee, Knoxville
- 2012 B.S. Civil and Environmental Engineering with Honors  
A.B. German (dual degree, summa cum laude)  
Lafayette College

## EMPLOYMENT

- since 2017 Engineer—Barge Design Solutions, Knoxville, Tennessee  
Member of the environment and water resources team
- 2015–2016 Fulbright Grantee—University of Innsbruck, Austria  
Researcher at the Institute for Ecology
- 2012–2014 Engineer—Langan, New York, New York  
Member of the site-civil design team

## MANUSCRIPTS IN PREPARATION

Jacob Dein, Johannes Rüdissler, Ulrike Tappeiner. Landscape influence on biophony in a noisy alpine environment. To be submitted to *Landscape Ecology*.

## GRANTS AND AWARDS

- 2018 Anne Mayhew and Graduate Student Senate Travel Awards,  
University of Tennessee, \$1,200
- 2015 Fulbright U.S. Student Combined Grant to Austria, \$18,000
- 2015 NSF Travel Grant to Global Sustainable Soundscapes Network Workshop, \$1,000
- 2012 Carroll Phillips Basset Prize in Civil Engineering, Lafayette College, \$2,000
- 2012 Rexroth Prize in German, Lafayette College, \$500
- 2011 Viscomi Civil Engineering Student Prize, Lafayette College, \$500

## CONFERENCE PRESENTATIONS

- 2018 Dein, J. Soundscapes of Urbanizing Landscapes. Spaces and Flows: Conference in Urban and ExtraUrban Studies, October 25-26, Heidelberg, Germany.
- 2016 Dein, J. Soundscapes of the Alpine Landscapes. Fulbright Seminar in American Studies, May 12-14, Strobl, Austria.
- 2015 Dein, J. Soundscapes of the Alpine Landscapes. Global Sustainable Soundscapes Network Workshop, July 13-17, Wood River, Nebraska and Brookings, South Dakota.
- 2012 Dein, J. GIS-based Web Analysis Tool for Landowners in the Marcellus Shale Region. American Water Resource Association Specialty Conference: GIS and Water Resources, March 26-28, New Orleans, Louisiana.

## TEACHING

- 2016 Fulbright English Teaching Assistant, School Board for Tyrol, Innsbruck, Austria  
Taught and created lesson plans for 13 classes per week at two secondary schools.

## RESEARCH

- 2015–2016 Noise data collection and modeling, University of Innsbruck, Austria  
Designed and conducted a study to predict the acoustic environment across the landscape with two collaborators at the Institute of Ecology (Fulbright grant).
- 2011–2012 GIS analysis, Lafayette College, Pennsylvania  
Developed a web application for landowners in the Delaware River Basin to predict potential impacts from natural gas development.
- 2011–2012 Stream monitoring, Martins-Jacoby Watershed Association, Pennsylvania  
Monitored a high-quality stream near the Delaware Water Gap to assess the impact of nearby municipal water supply wells.
- 2010–2011 GIS development, Nazareth Municipal Authority (NBMA), Pennsylvania  
Lead part of a three-year project with NBMA to develop a GIS of the town's utilities.

## COMMUNITY INVOLVEMENT

- 2008–2012 Volunteer National Ski Patroller, Tanglwood Mountain, Tafton, Pennsylvania
- 2008–2012 Ski and Snowboard Racing Team, Lafayette College, Pennsylvania  
(President, 2012)
- 2008–2012 Rowing Team, Lafayette College, Pennsylvania

2011–2012 Peer Tutor in Engineering, Lafayette College, Pennsylvania

2011 Member of the Delaware River Basin Discussion Group, Easton, Pennsylvania

## PROFESSIONAL MEMBERSHIPS

since 2018 American Association of Geographers (AAG)  
2018 Southeastern Division of the Association of American Geographers (SEDAAG)  
2012 Sigma Xi Research Society  
2011 American Society of Civil Engineers (ASCE)  
2011 American Water Resources Association (AWRA)  
2011 Delta Phi Alpha National German Honorary Society  
2011 Tau Beta Pi Engineering Honor Society  
2011 Phi Beta Kappa Honor Society

## CERTIFICATIONS

2012 Certified Engineer in Training (EIT)

## COMPUTER SKILLS

programming	Python, R, C, MATLAB, SQL, git
web development	HTML, CSS, SASS, JavaScript
web frameworks	Django, jQuery, Compass, Gulp
GIS	ArcGIS, PostGIS, fiona, rasterio, geopandas
engineering	AutoCAD Civil 3D, WinTR-55, HEC-HMS
databases	PostgreSQL, MySQL
data analysis	SciPy, pandas, scikit-learn, PyMC3
data visualization	matplotlib, seaborn, bokeh
design	Photoshop

## LANGUAGES

English	native language
German	fluent in speaking, writing, and reading