

# Vincent J. O'Leary

vincentoleary.com

github.com/vjoleary

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## Education

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**Drexel University**, Pennoni Honors College, Philadelphia, PA, Cumulative GPA 3.58, expected June 2018  
B.S. Environmental Science (Ecology concentration), Minors in Geoscience and Mathematics

*Relevant Courses:* Biogeography, Biodiversity, Earth System Processes, GIS & Environmental Modeling,  
GIS & Field Surveying Methods, Environmental GIS, Scientific Data Analysis, Probability & Statistics

**Reykjavik University**, Reykjavik, Iceland, studied abroad through the GREEN Program Dec 2015

## Academic and Professional History

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**Curatorial Assistant** (Ted Daeschler, PhD.) Since 2013  
Vertebrate Paleontology Department, Academy of Natural Sciences Philadelphia, PA

- Develop and standardize a FileMaker Pro database of 20,000+ specimens to publish online
- Describe morphology of fossils using scanning electron microscopy and 3D imaging techniques

**Biodiversity Informatics Research CO-OP** (Steve Dilliplane) Mar 2016 - Sep 2016  
Center for Systematic Biology and Evolution, Academy of Natural Sciences Philadelphia, PA

- Migrated and organized 8860 records in FileMaker Pro using recognized metadata standards
- Developed automated work-flow using MySQL to import and standardize several distinct Symbiota, Microsoft Excel, and FileMaker Pro databases into a single Specify repository

**Geographic Information System (GIS) Research CO-OP** (Jerry Mead, PhD.) Mar 2015 - Sep 2015  
Patrick Center for Environmental Research, Academy of Natural Sciences Philadelphia, PA

- Modeled Jamaican landsnail biodiversity for 600+ sampled locations using ArcGIS, QGIS, and R
- Surveyed stream topography via bar-code and laser level techniques and sampled invertebrate biodiversity

**STAR (Students Tackling Advanced Research) Scholar** (Daniel Duran, PhD.) Jun 2014 - Sep 2014  
Drexel University Office of Undergraduate Research Philadelphia, PA

- Forecasted potential range expansion of invasive crayfish using MaxEnt and online environmental data

## Activities and Community Service

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**Drexel Community Scholar** Since Apr 2016  
Drexel Lindy Center for Civic Engagement Philadelphia, PA

- Coordinate after-school STEM activities for schoolchildren in West Philadelphia elementary schools

**Vice President (Jan - Jun 2016)** Member since Dec 2013  
Phi Kappa Psi Fraternity Philadelphia, PA

- Presided over 70 members and implemented new messaging system to improve notifications and archiving

**President (Apr 2014 - May 2015)** Member Sep 2013 - Sep 2015  
Drexel Smart Initiatives Program - Drexel Smart House Project Philadelphia, PA

- Secured funding for original student research and partnered with Philadelphia Water Department and PECO

Volunteer for Date Refuge Project	Since Jan 2017
Student Ambassador for Drexel Fellowships Office	Since Oct 2016
Founding member in 2014 and event coordinator of two student professional societies at Drexel University, the Drexel Naturalist Association and the Paleontology and Geology Club	
Co-created new community based learning course at Drexel focused around climate change, urban ecology, and scientific communication which was offered to 18 students in the fall term of 2014	

## **Presentations**

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5. **O'Leary, V.**, T. Daeschler. Building an urban ecology curriculum along the Schuylkill River walking trail. *Student Conference on Global Challenges*, 2016.
4. **O'Leary, V.** 1 Footpath, 100 Stories: Climate change and the importance of "talking science". *Presented twice for Drexel University's Undergraduate Research Nerd Nite*, 2016.
3. Raphelson, M., **V. O'Leary**, A. Adams, K. Luckenbill and T. Daeschler. Student projects using digital imaging techniques in Vertebrate Paleontology to capture new details of Late Devonian-age fossils. *Drexel University Research Day*, 2016.
2. **O'Leary, V.**, M. Sei, G. Rosenberg and J. Mead. Defining spatial distributions of landsnail biodiversity in Jamaica. *Presented at the National Conference on Undergraduate Research, the Stanford Undergraduate Research Conference, and the Harvard Undergraduate Research Conference*, 2016.
1. **O'Leary, V.**, D. Duran. Niche Modeling for Management of Invasive Crayfish. *STAR Scholars Summer Showcase Program*, 2014.

### *Workshops and Conferences attended*

4. PHENND 2016 Annual Service Leaders Summit. Philadelphia, PA.
3. iDigBio Georeferencing for Research Use Workshop. 2016. Santa Barbara, CA.
2. Ecological Society of America 2015 Annual Meeting. Baltimore, MD.
1. Geological Society of America 2015 Annual Meeting. Baltimore, MD.

## **Awards and Grants**

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2017 Truman Scholarship National Finalist  
 2016 National Oceanic and Atmospheric Administration (NOAA) Hollings Scholarship  
 2016 Drexel University ExCITE Center Seed Fund Research Grant (\$5,000)  
 2016 Drexel University Steinbright Corporate Partners Scholarship  
 2016 American Leadership Academy NBD Scholarship  
 2015 Drexel University Office of Undergraduate Research SuperNova Fellow  
 2013 Minor planet 28592 named "O'Leary" for being a finalist of the Intel Science Talent Search  
 2012 Drexel University Scholarship from the Intel International Science and Engineering Fair

## **Professional Societies**

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American Association for the Advancement of Science (AAAS)	Since 2017
Ecological Society of America (ESA)	Since 2014
Geological Society of America (GSA)	Since 2014
Society for Science and the Public (SSP)	Since 2009