

Vincent J. O'Leary

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Education

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

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

Academic and Professional History

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

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

- Founding member and event coordinator of two new student professional societies at Drexel University
- 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

7. (PLANNED) Shirey, V, **O’Leary, V.**, Dilliplane, S. More Than a Map: Adventures in Biodiversity Informatics Visualization. *Interactive demo presented during the Society for The Society For The Preservation of Natural History Collections Annual Meeting*, 2017.
6. (PLANNED) **O’Leary, V.** Digitization of the ANSP Vertebrate Paleontology collections. *Presented for Drexel University’s Week of Undergraduate Excellence*, 2017.
5. (PLANNED) **O’Leary, V.** One Footpath, 100 Stories: Building Communities around a Shared River. *Presented for Drexel University’s Week of Undergraduate Excellence*, 2017.
4. **O’Leary, V.**, T. Daeschler. Building an urban ecology curriculum along the Schuylkill River walking trail. *Student Conference on Global Challenges*, 2016.
3. **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.
2. **O’Leary, V.**, M. Sei, G. Rosenberg and J. Mead. Defining spatial distributions of landsnail biodiversity in Jamaica. *1) the National Conference on Undergraduate Research, 2) the Harvard Undergraduate Research Conference, and 3) the Stanford Undergraduate Research Conference*, 2016.
1. **O’Leary, V.**, Z. Loughman. Habitat Preferences and Movement Patterns of Invasive Virile Crayfish Determined by Radio-Telemetry. *National Junior Science and Humanities Symposium*, 2013.

Posters

4. (PLANNED) Shirey, V, **O’Leary, V.**, Dilliplane, S. Big Data Opportunities in Ecological and Biodiversity Informatics: A Functional Trait Perspective. *Digital Data in Biodiversity Research Conference*, 2017.
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.**, D. Duran. Niche Modeling for Management of Invasive Crayfish. *STAR Scholars Summer Showcase Program*, 2014.
1. **O’Leary, V.**, Z. Loughman. A Multi-Year Analysis of Orconectid Crayfish Invasion Dynamics in West Virginia Utilizing Laboratory and Field Methodologies. *Science Talent Search Competition*, 2013.

Awards and Grants

2017 Truman Scholarship
2017 Udall Scholarship
2017 Society for Science and the Public Advocate Grant (**\$3,000**)
2016 National Oceanic and Atmospheric Administration (NOAA) Hollings Scholarship
2016 Drexel University ExCITe Center Seed Fund Research Grant (**\$5,000**)
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

Professional Societies

American Association for the Advancement of Science (AAAS)	Since 2017
Society For The Preservation of Natural History Collections (SPNHC)	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