

# Julia Lanoue | Curriculum Vitae

Silwood Park Campus Imperial College London Buckhurst Rd, Ascot, SL5 7PY

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Master's candidate in Computational Methods in Ecology with an environmental science background interested in science, model development, and data-driven solutions to environmental problems.

## Education

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### Academic Qualifications.....

- **Imperial College London** **Ascot, Berkshire, UK**  
*MRes, Computational Methods in Ecology & Evolution* *Expected Graduation: Sept 2018*
- **Brown University** **Providence, RI, USA**  
*BSc with Honors, Environmental Science, GPA in major: 3.5* *2012–2016*
- **The Mary Louis Academy** **Jamaica Estates, NY, USA**  
*Advanced Regents Diploma, GPA: 4.0* *2008–2012*

### Notable Projects.....

- **Master's Project (Ongoing):** *'Thermal Dependence of Assimilation Efficiency in Aquatic Invertebrates'*  
Investigating the impacts of thermal acclimation on assimilation efficiency in aquatic invertebrates. The project involves data management, manipulation, and model parameterization using tools in both Python and R such as NumPy, pandas, SciPy, dplyr, and ggplot2.
- **Undergraduate Honors Thesis:** *'Assessing the Potential Effects of Channel Deepening on Oyster Restoration in the Hudson River Estuary'*  
An 18-month collaborative effort with both Woods Hole Oceanographic Institution and the Hudson River Foundation to develop oyster growth simulations to track productivity in response to changes in salinity. In this independently developed project, I consolidated large environmental datasets in MS Excel and R and applied them to mathematical models to provide insight into oyster restoration and conservation. The results from this project were presented to stakeholders in oyster restoration, and at two scientific conferences.

## Technical skills

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- **Programming Languages:** Python (NumPy, SciPy, Pandas, Matplotlib), R (dplyr/plyr, ggplot2), Linux/Unix, Git, LaTeX, QGIS, ArcGIS, MS Suite (Excel, Word, Powerpoint)

## Previous Employment

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- **Martha's Country Bakery** **Queens, NY, USA**  
*Counter Server* *Jan 2017–Sept 2017*
  - Provided takeaway service for customers, such as baked good, beverages, and cake orders as well as assisted customers in creating custom cake orders, including choice of flavors and design.
  - Delegated and communicated tasks amongst fellow servers during opening and closing times.
- **Marek Landscaping, LLC** **Milwaukee, WI, USA**  
*Research Intern* *June 2016–August 2016*

- Collaborated with landscape architects to design and execute a project assessing the efficacy of artificial floating islands to restore fish habitat in the Milwaukee River.
- Collected and analyzed all data using R statistical software and produced a written report and presentation on the findings to stakeholders and grant donors.

**Marine Policy Center, Woods Hole Oceanographic Institution**

**Woods Hole, MA, USA**

*Summer Student Fellow/Guest Student Researcher*

*Jun 2015– May 2016*

- Collaborated with the Hudson River Foundation to develop a model to determine the optimal locations for oyster restoration given channel deepening in the Hudson River Estuary.
- Structured and managed over three years of continuously collected environmental data for model analysis.
- Developed a method to link the individual growth model to a population growth model using R statistical software.

**Brown University**

**Providence, RI, USA**

*Student Historical Researcher*

*Jan 2015 - May 2015*

- Gathered information from historical documents on perceptions of resource abundance in precolonial Northeastern United States using online document and library databases.
- Produced weekly reports describing relevant findings, quotes, and references to source materials.

**Guana Tolomato Matanzas National Estuarine Research Reserve**

**Jacksonville, FL, USA**

*Coastal Biology Flagship Fellow*

*Jun 2014 - Aug 2014*

- Applied R and Excel for data manipulation and analysis to explore the effects of harvesting on oyster population density.
- Synthesized visual displays of study sites using ArcGIS.

**Brainerd Lab, Brown University**

**Providence, RI, USA**

*Aquarium Technician*

*Oct 2012 - May 2013*

- Collaborated with instructors at a local high school to teach students scientific concepts such as literature review, observation, development of hypotheses, and implementation of an experiment.

## Leadership Roles

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- President, Silwood Park Dance Society (2017-present)
- Entertainment Team, Silfest Organization Committee (Feb 2018 - present)
- Co-organizer, DIY July - an event to make plastic-free everyday products (July 2018)
- Head Memeber, Environmental Program House, Brown University (2014-2016)
- Co-Director, What's on Tap?, Brown University (2015-2016)

## Interests and extra-curricular activity

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- I am very active on campus, including participation in clubs and organizing committees. I am president of the Silwood Park Dance Society, where I lead weekly stretches and teach fellow students different dance styles. I am also a member of the Silwood Choir group, though I definitely can't sing. I am a part of the organization committee for the annual music festival on campus as part of the Entertainment team, which involves hiring and budgeting for various activities during the festival.
- I am also a PADI OW certified diver and certified outdoor first aider.
- Avid traveler - studied abroad in Cambodia and Vietnam in the fall of 2014 and traveled across eastern Australia from Sept - Nov 2016

## References

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- Up to 3 references available on request