

Leon Yin

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EDUCATION

NEW YORK UNIVERSITY

Bachelors of Science in Chemistry, May 2015

Minors in Computer Science and Environmental Studies

RESEARCH EXPERIENCE

June 2015 – August 2015

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

PI: Allegra N. LeGrande, NASA GISS and Center for Climate Systems Research

Built scalable framework to update, search and display the Global Seawater Oxygen-18 database using Python Pandas. Derived $\delta^{18}\text{O}$ - salinity relationships of unique Arctic Ocean water masses using World Ocean Atlas 2001 and Fortran90. Implemented statistical analysis and data visualization using NumPy, Basemaps and Matplotlib.

September 2014 – June 2015

CENTER FOR ATMOSPHERE AND OCEAN SCIENCES

PI: K. Shafer Smith, Courant Institute of Mathematics

Used Matlab to explore 1-D biogeochemical fluxes using O_2 and CO_2 enabled nutrient-phytoplankton-zooplankton (NPZ) models based on the heat equation, Sverdrup Critical Depth Hypothesis (mixed layer depth) and Redfield ratios.

April 2014- December 2014

NYU UNDERGRADUATE RESEARCH FUND

PI: Mary Killilea, Biology and Environmental Studies

Project lead on 28-day experiment quantifying the effects of ocean acidification on the physiology of *C. virginica* oysters through changes in water quality.

PROFESSIONAL EXPERIENCE

NYU CENTER FOR GENOMICS AND SYSTEMS BIOLOGY, NEW YORK, NY

Research Technician, March 2015 – June 2015

Programmed algorithms for liquid-handling robot automation in Javascript.

Statistical analysis of flow cytometry output using R bioinformatics modules.

+ POOL, NEW YORK, NY

Water Quality Technician, April 2014 – September 2014

Sampled and tested Hudson River bacteria, turbidity, color, temp, salinity, and pH for New York's first self-floating, self-filtering public pool.

NYU OFFICE OF SUSTAINABILITY, NEW YORK, NY

Sustainable Energy Project Coordinator, May 2012 - September 2014

Managed university-wide LED lighting installations and compost collection expansion.

ENVIRONMENT NY, NEW YORK, NY

Policy Intern, September 2011 – January 2011

Coordinated outreach for improved automobile fuel efficiency in New York State.

VOLUNTEER HISTORY

Oxfam America at NYU (President 1 year, Treasurer 1 year)

Earth Matters (Member 3 years)

NYU Divest (Member 1 year)

FUNDING HISTORY

2014	NYU Green Grants, "One Man's Trash" (Video)	\$4000
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2014	NYU Undergraduate Research Fund, "The Effects of Ocean Acidification on the Feeding Rates of Bivalves" (Presentation)	\$1000
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2015	NASA GISS, "What is Past is Prologue" (Presentation and Poster)	\$4800
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INVITED POSTER AND ORAL PRESENTATIONS

2013 Association for the Advancement of Sustainability in Higher Education, Nashville TN (Presentation)

2015 Undergraduate Research Conference, New York NY (Presentation)

2015 NASA GISS NYCRI Symposium, New York NY (Presentation and Poster)

2015 NOAA CREST Research Symposium, New York NY (Poster)

2015 AGU Fall Meeting, San Francisco CA (Accepted)

COMPUTER SKILLS with years experience

Languages: Python₅, Fortran, Java₂, MySQL, Javascript₂, HTML5, R, C

Programs: Matlab₂, Photoshop₆, Final Cut Pro, Wordpress

OS: Mac OS X, Linux/Unix, Windows

LANGUAGES

Native English speaker with working proficiency in Chinese and German.

PROFESSIONAL MEMBERSHIPS

American Geophysical Union and the Oceanography Society since 2015.