Leon Yin

823 St John's Pl
Brooklyn NY, 11216
(781) 439-2875
hello.leonyin@gmail.com
yinleon.github.io

EDUCATION

NEW YORK UNIVERSITY
Bachelors of Science in Chemistry, May 2015
Minors in Computer Science and Math

COMPUTER SKILLS years experience

Languages: Python[4], Java[2], Fortran, Javascript[2], HTML5, R, MySQL, NoSQL
Programs: Matlab[2], Photoshop[6], Final Cut Pro, Wordpress
OS: Mac OS X, Linux/Unix, Windows

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. Extended legacy software to derive $\delta^{18}O$ - salinity relationships in the Arctic Ocean using World Ocean Atlas 2001 and Fortran90. Implemented statistical analysis, automated quality checks and data visualization using NumPy, Basemaps and Matplotlib.

September 2014 – June 2015
CENTER FOR ATMOSPHERE AND OCEAN SCIENCES
PI: Leon Yin, K. Shafer Smith, Courant Institute of Mathematics

Worked with senior scientists to explore the Biological pump using a 1D O_2 and CO_2 enabled nutrient-phytoplankton-zooplankton (NPZ) model based on the heat equation, Sverdrup Critical Depth hypothesis and Redfield ratios (Thesis work).

March 2015 – May 2015
ENVIRONMENTAL FLUID DYNAMICS LAB
PI: David Holland and Eric Johnson, Courant Institute of Mathematics
Volunteered with Eric Johnson to build Python remote sensing algorithms to detect cloud cover and base heights using terabytes of ceilometer data.

April 2014 – December 2014
DEAN'S UNDERGRADUATE RESEACH FUND
PI: Leon Yin, Brynn O'donnell and 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. Worked with research associate Regis Lasbleiz to culture phytoplankton and adjust pCO_2.

PROFESSIONAL TRAINING

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's bioinformatics modules.

JENKEM MAGAZINE
Editorial Intern September 2014 – January 2015
Formatted articles in Wordpress and gave the website a facelift.

+ 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
Supervised two student employees for 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.

GRANT HISTORY

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

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)

VOLUNTEER HISTORY

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

LANGUAGES

Native English speaker with working proficiency in Chinese and German.

PROFESSIONAL MEMBERSHIPS

American Geophysical Union and the Oceanography Society since 2015.

REFERENCES

Allegra N. LeGrande
NASA GISS, Center for Climate Systems Research, Columbia University
✉ allegra.n.legrande@nasa.gov
☎ 212-678-5556

Shafer Smith
Center for Atmosphere and Ocean Sciences, Courant Institute of Mathematics
✉ shafer@cims.nyu.edu
☎ 212-998-3176

Mary Killilea
NYU Biology and Environmental Studies
✉ mek5@nyu.edu
☎ 212- 998-8268