

Anthony Lollo Jr.

9 Hepburn Rd. Hamden CT, 06517
(631) 901-2161 anthony.lollo.jr@gmail.com

EDUCATION

Yale University - New Haven, CT May 2018
Ph.D. in Physics: "Phase Slips in Isolated Mesoscopic Superconducting Aluminum Rings"

Boston University - Boston, MA May 2010
B.A. in Astronomy and Physics, Summa Cum Laude, GPA: 3.90 (3.96 in major)

DATA ANALYSIS EXPERIENCE

Yale University School of Public Health – New Haven, CT 2/2018 – Present
Data Science Manager

- Create a data pipeline in Python from scratch to normalize Medicaid claims data across several states and insurers, allowing for standardized analyses to be run across projects.
- Design and maintain database schema and codebase using version control.
- Define project goals and supervise the progress of research assistants and student researchers.
- Write python code to calculate quality measures, perform risk adjustment, and determine provider networks and provider network exits from standardized data.
- Use random assignment to Medicaid managed care organizations as the basis for natural experiments to study the effects of insurance plans and providers purged of selection.

Yale University – New Haven, CT 9/2011 – 12/2017
Graduate Researcher

- Analyzed large experimental datasets in Python using regression and Fourier analysis to test predictions of quantum mechanics.
- Applied statistical analysis to validate models and draw conclusions from data.
- Designed an experimental apparatus and protocols to measure superconducting rings.
- Developed step detection algorithms to isolate desired signals from a noisy background.
- Implemented Monte Carlo simulations to solve stochastic differential equations.
- Awarded 1st Place "Best Poster Award" at "Trends in Mesoscopic Superconductivity Seminar" in Bad Honnef, Germany (2016).

Center for Space Physics - Boston, MA 5/2008 – 7/2011
Research Scientist

- Cleaned and processed raw data from NASA Mars Global Surveyor spacecraft in C to determine trends and calibrate the satellite's orbital path.
 - Developed an adaptive timestep model in C to simulate the physics of Mars' ionosphere.
-

LEADERSHIP AND COMMUNICATION EXPERIENCE

Yale University – New Haven, CT 9/2011 – 12/2017
Teaching Fellow (14 Semesters), Head Teaching Fellow (2 Semesters), Graduate Mentor

- Led weekly discussion sections and tutored a diverse group of students.
 - Organized and moderated a weekly journal club for undergraduate researchers at Yale.
 - Directed research projects with graduate and undergraduate students and oversaw planning, progress, and analysis of results daily.
-

TECHNICAL SKILLS

Strong: Python (pandas, NumPy, SciPy, matplotlib, seaborn, statsmodels), Git, Stata, Microsoft Office
Familiar: R, SQL, C, Linux