

Joshua Stern



[linkedin.com/in/joshuagstern](https://www.linkedin.com/in/joshuagstern)



<https://joshstern.info>

Experience



Data Scientist

Consulting Firm

Sep 2018 - Present (2 years 9 months +)



Life Sciences Editor

Freelance

Dec 2015 - Aug 2018 (2 years 9 months)

Technical editing for molecular biologists who speak English as a second language



Data Scientist

Machine Learning Research

Jan 2015 - Aug 2018 (3 years 8 months)

Predictive analytics startup

Technical environment: Python, SQLAlchemy, Postgres, Ubuntu Linux



Technical Support Analyst

Fidessa

Nov 2013 - Dec 2014 (1 year 2 months)

Tier 2 support for indications of interest; client trade allocation and confirmation; and back office



NASA Fellow

Gaucher Lab, Georgia Institute of Technology

Sep 2010 - Aug 2013 (3 years)

- Developed STORI: Selectable Taxon Ortholog Retrieval Iteratively
- STORI is a machine learning algorithm that retrieves orthologous protein sequences for a set of user-defined proteomes and query sequences
- In contrast to existing methods where the CPU time scales as the square of the number of taxa queried, STORI scales linearly
- Contributed to understanding the Bacterial tree of life

* Planned in-vitro assembly of Bacterial large ribosomal subunits using maximum likelihood ancestral sequence resurrection



Graduate Student

Gaucher Lab, Georgia Institute of Technology

Sep 2009 - Sep 2010 (1 year 1 month)

Graduate Research Assistant



Goddard Earth Science & Technology Self-Directed Intern

Planetary Environments Laboratory

Jun 2009 - Aug 2009 (3 months)

Volatile Analysis by Pyrolysis of Regolith tests on space rock simulants; disentangling organic compounds, water-bearing minerals, and perchlorate salt



Undergraduate Research Assistant

Brown University

Jan 2008 - Dec 2008 (1 year)

Optimized a desulfurization reaction for GC analysis of sedimentary sulfur-bound biomarkers



Undergraduate Research Assistant

Dworkin Lab, Goddard Space Flight Center

2007 - 2007 (1 year)

Measured enantiomeric excesses of soluble amino and hydroxy acids (standards for meteoritic material). Used a tandem HPLC-FD-MS system.



Pool Operator & Head Lifeguard

Camp Moshava

2004 - 2006 (3 years)

Summer job



Summer Intern, Geodynamics Branch

NASA Goddard Space Flight Center

2003 - 2003 (1 year)

Education



Georgia Institute of Technology

Master of Science (MS), Biology

2009 - 2013

NASA Graduate Fellow, Georgia Tech Presidential Fellow



Brown University

Bachelor of Science (B.Sc.), Geology-Biology

2004 - 2009

Licenses & Certifications



The Data Scientist's Toolbox - Coursera Course Certificates

25TC6A6M6F

 **Google Cloud Certified Professional Cloud Architect - Google**

Issued Feb 2021 - Expires Feb 2023

YaGC7C

Skills

Computational Biology • Biochemistry • Data Analysis • Bioinformatics • Molecular Biology • Protein Purification • Genomics • Gas Chromatography • Mass Spectrometry • Science