Anna I. Leskova

Mathematician · Software Engineer · Educator

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Education

University of California - Berkeley
Berkeley, CA

B.A. in Applied Mathematics, Minor in Computer Science
August 2014 - Math 2018

Experience

SLAC National Accelerator Laboratory
Palo Alto, CA

Software Engineer - Summer Undergraduate Laboratory Internship
June 2016 - PRESENT

- Machine learning via artificial neural network using Keras and Theano at the LINAC coherent light source.
- Earned the Ernest Coleman Award for "exemplary scholarship and citizenship."

Undergraduate Mathematical Research - University of California Berkeley
Berkeley, CA

Undergraduate Mathematical Research
January 2016 - PRESENT

- Researched about Hausdorff Gaps, forcing, and Universal Algebra with Noah Schweber.
- Currently researching Representation Theory with Professor Nicolai Reshetikhin.

Student Learning Center - University of California Berkeley
Berkeley, CA

Study Group Leader & Tutor
June 2015 - PRESENT

- Teach the Linear Algebra and Differential Equations study group section to undergraduates.
- Tutor Algebra, Single Variable and Multivariate Calculus, Linear Algebra, Differential Equations, and Discrete Mathematics.

Joint BioEnergy Institute
Emeryville, CA

Computational Biology & Undergraduate Researcher
June 2015 - December 2015

- Characterized *Rhodococcus erythropolis* for its type I polyketide syntheses by establishing RNAseq.
- Used CRISPR, Cas9 to edit *E. coli* and organized bacterium data using Java, Python 2.0, MySQL, and LaTeX.

Bio-Sciences Researcher - Louisiana State University
Shreveport, LA

Research Assistant & Data Analyst
October 2011 - June 2014

- Preformed data analysis with the Computer Science Department through the Post-Katrina Sci-Net Grant using Prism 6.0.
- Used the glutathione pathway to study anti-angiogenic and sulfide donating properties of thiosulfate. Cultivated HUVECs to calculate sulfide concentrations using MBB, HPLC method. Performed BrDU/ glutathione assays.
- Awarded Iota Sigma Pi Outstanding Woman in Chemistry Award, and awarded Intel Science Talent Search Semi-Finalist.

Extracurricular Activity

MUSA - Mathematics Undergraduate Students Association
Berkeley, CA

Member & Outreach Chair 2016-2017
August 2016 - PRESENT

PEACE Tutoring - Peers Espousing Amiability Cooperation and Education
Berkeley, CA

Member & President 2016-2017
January 2015 - PRESENT

Alpha Chi Sigma Professional Chemistry Fraternity
Berkeley, CA

Member
August 2015 - PRESENT

WiSE - Women in Science and Engineering Theme Housing Program
Berkeley, CA

Member & WiSE ONE Conference Organizer
August 2014 - May 2015

Courses and Skills

Programming	Mathematics	Sciences	Language	Misc.	Hobbies
Python	Numerical Analysis	Organic Chemistry	English	Terminal	Archery
Scheme	Linear Algebra	Inorganic Chemistry	Russian	Leadership	Hiking
Java	Partial Diff. Equ.	Physical Mechanics	French	Web Design	Lame Math Jokes
LaTeX	Real Analysis				
MatLab	Algebraic Geometry				