Zachary Glassman

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Experienced in data science, physics, mathematics, and programming with a love of learning and teaching. Seeking to continue learning and building.

Professional Experience

Data Scientist in Residence **10/2017-present**
The Data Incubator *Oakland, CA*

- Trained students in programming, machine learning, distributed computing, and neural networks through the TDI fellowship, corporate trainings, and conference tutorials.
- Assisted corporate clients in developing data science capabilities by helping their employees augment their current knowledge with data science best practices.
- Developed data science curriculum and content in collaboration with a team of data scientists.
- Built and maintained infrastructure for the TDI data science platform leveraging Kubernetes and cloud services across multiple cloud platforms.

Graduate Research Assistant **6/2014-8/2017**
Joint Quantum Institute, NIST and University of Maryland *College Park, MD*

- Worked within NIST Laser Cooling and Trapping Group on a Sodium Bose-Einstein condensation apparatus
- Set up systems for experimental control, data acquisition, and data analysis (Python)
- Theoretically studied quantum enhanced interferometry in a spinor BEC system (Python, HPC cluster)

Education

M.S. in Chemical Physics **8/2017**
University of Maryland, College Park *College Park, MD*

B.A. in Physics and Mathematics **5/2014**
Pomona College *Claremont, CA*

Relevant Skills

- **Personal** - mentorship, adaptability, teaching, public speaking, technical translation
- **Data** - data wrangling, machine learning, statistics, distributed computing, technical writing
- **Computing** - Python, Kubernetes, Docker, Jenkins, SQL, HTML/CSS, Javascript, bash, LaTeX, git, Spark

Honors and Awards

2014: Flagship Fellow, University of Maryland - Graduate recruitment

2014: NIST/Chemical Physics Fellowship, NIST and University of Maryland

2014: Richard P Edmunds Physics Prize, Pomona College - Top physics graduate

Publications

1. "Spinor Bose-Einstein-condensate phase-sensitive amplifier for SU(1,1) interferometry" - *Phys. Rev. A*, Vol. 98, Issue 2, 2018
2. "The hyperfine interaction in the odd isotope of ytterbium fluoride, ^{171}YbF"- *Journal of Molecular Spectroscopy*, Volume 300, Pages 7-11.
3. "From Urysohn's Universal Metric Space to a Universal Space-Time,"*Mathematical Structures and Modeling*, Vol.2. No.28, 2013, pages 28-34.

Interests

science fiction, rock climbing, animals, witty blog posts