Zachary Glassman

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

Professional Experience

Data Scientist in Residence **10/30/2017-present**
The Data Incubator *Oakland, CA*

- Instructor for data science courses and fellowship
- Developed curriculum and course infrastructure
- General purpose web development

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, C++, HPC cluster)

Research Assistant **9/2012-5/2014**
Department of Physics and Astronomy, Pomona College *Claremont, CA*

- Performed spectroscopic studies on diatomic molecules in both the microwave and optical regimes
- Generated global models describing thousands of spectroscopic features of diatomic molecules (Python, SPFIT)

Research Assistant **9/2013-5/2014**
Department of Mathematics, Claremont McKenna College *Claremont, CA*

- Studied embeddings of metric spaces in the context of universal metric spaces
- Studied Time-oriented Lorentzian Manifolds

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

- **Technical** - Python, Jupyter/IPython, SQL, HTML/CSS, Javascript, LaTeX, git, Matlab, Firebase, Spark, MapReduce
- **Laboratory** - Lasers, optics, hardware control, data analysis, image processing, electronics, vacuum systems

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. "The hyperfine interaction in the odd isotope of ytterbium fluoride, ^{171}YbF"- *Journal of Molecular Spectroscopy*, Volume 300, Pages 7-11.
2. Aksoy AG, Glassman Z., Kosheleva O., Kreinovich V. ,"From Urysohn's Universal Metric Space to a Universal Space-Time,"*Mathematical Structures and Modeling*, Vol.2. No.28, 2013, pages 28-34.