Rory Hartong-Redden

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Summary

I'm a physicist turned data scientist.

Skill Summary

Languages: Python, MATLAB Dev Tools: Git, Heroku

Data: Pandas, SQLAlchemy, PostgreSQL Machine Learning: Keras, scikit-learn

Work Experience

• Startup.ML San Francisco, CA Dec 2015-Present Fellow

- Deployed a Python app to heroku that saves a websocket feed into a postgres database
- Exploring feasibility of neural networks for use in algorithmic trading
- Harold Washington College

Chicago, IL

Adjunct Faculty

Feb 2015-May 2015

- Incorporated the latest discoveries in astronomy and the new Cosmos into my lessons

Projects

Home

• Data Science self-directed study

Chicago, IL

May 2015- Pres

- Using the tools in scikit-learn on datasets from Kaggle and elsewhere
- Exploring scientific programming environments: Python, R, SAS
- Completed the Ruby on Rails Tutorial and built a Twitter clone with Ruby on Rails, Heroku, Git
- Master's Thesis: Faraday Waves Experiment

Santa Barbara, CA

Krechetnikov Fluid Physics Lab, Dept. of Mechanical Engineering

Dec 2013-Jun 2014

- Implemented a novel 3D fluid surface measurement using MATLAB for image analysis
- Arctic Sea Ice Modeling

Northwestern University

Prof. Mary Silber, Dept. of Applied Mathematics

Sep 2011-Jan 2012

- Coded models of arctic sea ice in MATLAB for the study of climate change
- Bachelor's Thesis: Drop Splash Experiment

Santa Barbara, CA

Krechetnikov Fluid Physics Lab, Dept. of Mechanical Engineering

Jul 2009-Oct 2010

- Published a peer-reviewed article¹ and gave a talk at a national conference² on the experimental and theoretical advances I developed that may have solved a 100-year puzzle in fluid dynamics
- Transient Optical Sky Survey

Santa Barbara, CA

Lubin Lab, Dept. of Physics

Sep 2008-Jun 2009

Collaborated on the MATLAB/C data pipeline that processed 1GB of images per night

Education

• University of California, Santa Barbara

Santa Barbara, CA

MS Mechanical Engineering

Dec 2014

Northwestern University

Evanston, IL

Graduate study in Physics & Astronomy

Sept 2010-Mar 2012

• University of California, Santa Barbara

Santa Barbara, CA

BS Physics & Mechanical Engineering

June 2010

- Graduated with honor in both degrees, GPA: 3.7/4.0

¹Hartong-Redden, R. & Krechetnikov, R. Pattern identification in systems S(1) symmetry. Phys. Rev. E. 2011.

²63rd Annual Meeting of the APS Division of Fluid Dynamics