David C Plotz
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Education

California State University, East Bay. Hayward, CA.
Masters, Statistics. Expected graduation 2016   GPA: 3.91

Hunter College, The City University of New York. New York, NY.
Masters and BS in Physics. Dual Degree Awarded: 2008   GPA: 3.778

Recent Projects

Dynamic Clustering Research: Invited to join a small research team led by Dr. Kamalinejad.
    In charge of implementing the clustering algorithm using Python and a static version in Hadoop.
    Responsible for helping design the algorithm and analyzing the results.

Hadoop: Individually motivated independent study under Dr. Thibault.
    Implemented a variety of Machine Learning and Natural Language Processing algorithms, including:
    K-NN, linear regression, inverted dictionary, TF-IDF.

Spectral Graph Theory: Individually motivated independent study under Dr. Kamalinejad.
    Studied the eigenvalues and eigenvectors of graphs to help understand the behavior of random walks,
    heat diffusion, and graph clusters. Implemented several numerical algorithms including QR and the Power Method.

Work Experience / Leadership

Freelance Python Programming, Hayward   Nov. 2015 – Present
    Invited by Dr. Zhou to help write Python in support of her research.
    Purpose: the visualization of multi-dimensional data using matplotlib.

CSUEB Data Science Club, Hayward   Sept. 2015 – Present
    President, Data Science Club. with 40+ active students.
    Organize and run weekly club meetings under the advisement of Dr. Suess.
    Promote club and identify and invite industry professionals to speak.

Twitter Research, Hayward   June 2015 – Sept. 2015
    Led a multidisciplinary team to create a pipeline to summarize tweets under the advisement of Dr. Suess.
    Responsible for creating the tweet-clustering algorithm.
    Helped the team's linguist create a sentence generator using NLTK.

Clever Kids School, Beijing, China   Sept. 2010 – Sept. 2014
    Taught 8-10 year olds English and wrote lesson plans with steps to reach attainable goals.

American House, Beijing, China   Jan. 2008 – Sept. 2010
    Managed a classroom of 3-5 year olds and taught them English and socialization skills.

Technical Skills

Primary Language: Python

Familiar With: C, CUDA, Hadoop streaming, Javascript, R, SQL

References

Ehsan Kamalinejad   ehsan.kamalinejad@csueastbay.edu
Eric Suess   eric.suess@csueastbay.edu
William Thibault   william.thibault@gmail.com
YanYan Zhou   yanyan.zhou@csueastbay.edu