CHENG Juan

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Professional profile

A self-motivated researcher with newly acquired skills and passion to mine the gems hidden in sets of structured, semi-structured and unstructured data. Has 6 years experiences of analytical techniques and able to play a key role in analyzing problems and come up with creative solutions. A quick learner who can absorb new ideas and can communicate clearly and effectively. Now looking for a suitable data analyst position with an ambitious company.

Related Experiences

National University of Singapore, Research Fellow, 2014-now
- **Statistical and time series analysis** of single molecular data
- **Process automation** of experimental data collection, cleaning and analysis

Code on GitHub: https://github.com/CjTouzi/Random/tree/master/tweezerData

Reports and Works Online
- Build text prediction engine by **text mining** of blog, twitter, news data
  Report: https://rpubs.com/Cjtouzi/capstoneReport
  App: https://cttest.shinyapps.io/DataScienceCaptone/
- Build a activity **classification model** of data collected by activity monitoring device
  Reprot: https://rpubs.com/Cjtouzi/mlexample
- **Regression analysis** on fuel economy
  Report: https://rpubs.com/Cjtouzi/regression

Education and Certifications

Holder of Distinguished Verified Certificate, Coursera Data Science Specialization, 2014-2015
Courses: The Data Scientist's Toolbox, Getting and Cleaning Data, Reproducible Research, R Programming, Statistical Inference, Exploratory Data Analysis, Regression Models, Practical Machine Learning, Developing Data Products
CFA level 1, CFA Institute, 2010
PhD in Physics, National University of Singapore, 2009-2013
Bachelor of science, Physics, Nanjing University, 2005-2009

Skills

R, Statistical and time series analysis, regression, clustering, Regular expression and text mining, paper writing, modeling, Matlab, knowledge of economics, financial analysis, equity, derivatives, fixed income and Hadoop

Publications

1. Juan Cheng, Sarangapani Sreelatha, Iong Ying Loh, Meihan Liu, Zhisong Wang, A bioinspired design principle for DNA nanomotors: Mechanics-mediated symmetry breaking and experimental demonstration, Methods, Volume 67, Issue 2, 15 May 2014, Pages 227-233, ISSN 1046-2023.

2. Juan Cheng, Sarangapani Sreelatha, Ruizheng Hou, Artem Efremov, Ruchuan Liu, Johan R. C. van der Maarel, and Zhisong Wang. Bipedal Nanowalker by Pure Physical Mechanisms. Phys. Rev. Lett. 109, 238104 – Published 6 December 2012