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| **CHENG Juan** | | |
| [chengjuan555@gmail.com](mailto:chengjuan555@gmail.com) | Singapore Permanent Resident  (65)91148880 | #02-71, 1P, Pine Grove,  591401, Singapore |
| **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](https://cttest.shinyapps.io/DataScienceCaptone/)/   * Install a single node Hadoop 2.7.0 in Amazon EC2   Report: https://rpubs.com/chengjuan/singleNodeHadoop   * Build aactivity **classification model** of data collected by activity monitoring device   Report: <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](https://www.coursera.org/account/accomplishments/records/dxJZChpbwAAWCuQ5)   * **CFA level 1,** CFA Institute, 2010 * PhD in Physics, National University of Singapore, 2009-2014 * 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, linux shell, 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 | | |