Chi Zhang

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LeetCode: https://leetcode.com/CZhang1223 · github: https://github.com/bakerston

EDUCATION

Clemson University SC,USA
Computer Science Readiness Sequence | Jan 2021 - Present
M.S. in Computational Biophysics | Aug 2015 - May 2021

Peking University Beijing, CHINA
B.S. in Physics | Aug 2011 - May 2015

TECHNICAL SKILLS

C/C++, Python, Linux, Windows,Shell, SQL, MATLAB, R

TRAINGING AND CERTIFICATIONS

Software Engineering Training
Insight Workshop Academy
Jan 2021 - Present

Statistics with R
Coursera | Oct 2020

Deep Learning Specialization
Coursera | Sep 2020

IBM Data Science Specialization
Coursera | Apr 2020

HONORS

Best defender
Academic Competition of School of Physics, Peking University | May 2013

1st Place
Academic Competition of School of Physics, Peking University | May 2013

2nd Prize
The 29th National Physics Competition for College Students | Dec 2012

EXPERIENCE

Teaching Assistant | Clemon University, USA | Aug 2015 - Jan 2018 , Jan 2019 - present

- Worked closely with the lead teacher to identify issues students are having and develop appropriate solutions, helped designing lab experiment

Research Assistant | Clemon University, USA | Jan 2018 - Jan 2019

- Performed computational simulation to study multiple biological systems

Research Assistant Peking University, CHINA | Aug 2013 - Aug 2014

PROJECTS

Prediction Model of the Selling Price of Homes | Jul 2020 - Oct 2020

- Developed a model to predict the selling price of a given home
- Applied multiple model selection methods including AIC and BIC
- Evaluate the performance of the final model with 80+ independent variables
- Related Technologies: **R, Bayesian model, Exploratory Data Analysis, Data Visualization**

Observation of Self-seeding Effect of Islet Amyloid Polypeptide (hIAPP) | Sep 2018 - Dec 2019

- Build a quantitative model to simulate hIAPP interaction with fibril
- Analyzed actionable insights of hIAPP based on $\sim$1TB of collected data
- Showed a full picture of fibril growth, which helps understanding the amyloid protein fibrillization process
- Related Technologies: **Python, MATLAB, Linux, Shell**

Inhibition of aggregation of Amyloid NACore by Fullerenol | Aug 2016 - Nov 2018

- Applied computational simulations using discreted molecular dynamics algorithm
- Underscore the surface chemistry to form hydrogen bonds, which helps the design of novel theranostics against amyloid diseases
- Published on Nanoscale with 10+ citations
- Related Technologies: **Statistical Analysis, Time Series Analysis, Monte Carlo Simultaion, Linux, Shell**

PUBLICATIONS

Sun, Y., Kakinen, A., **Zhang, C.**., Yang, Y., Faridi, A., Davis, T.P., Cao, W., Ke, P.C. and Ding, F., 2019. Amphiphilic Surface Chemistry of Fullerenols is Necessary for Inhibiting the Amyloid Aggregation of Alpha-synuclein NACore. Nanoscale, 11(24), pp.11933-11945.