Zhihui Xie PhD

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EXPERIENCE

2015- present   *Code reviewer*

Udacity   *home-based part time*

  Python (Intro to Data Science course)

2013- present   *Postdoctoral Fellow*

Children's Hospital, Los Angeles   **Los Angeles, CA**

  Python: Pandas: SQL: R: Statistics: Mass Spectrometry

- Develop python code to extract and analyze RNAseq data from brainspan.
- Analyze mass spectrometry data and map protein-protein interaction network.
- Visualize gene expression heatmap and perform statistical analyses using R programming.

Presentation

- Speaker, Nanosymposium at Society For Neuroscience 2014 conference.

2012-2013   *Postdoctoral Research Associate*

University of Southern California   **Los Angeles, CA**

  Neuroscience: Cell Biology: Molecular Biology: Biochemistry: Advanced Microscopy

- Perform mass spectrometry experiment to identify protein-protein interactions.

Presentation

- Poster presentation at Cold Spring conference (Synapses).

PROJECTS (see Github):

  Web scraping (Python): data wrangle (Python, MongoDB): data exploration and visulization (R)

- Project1: Web scraping, extract and analyze RNAseq data from brainspan.
- Project2: Analyzing the NYC Subway Dataset_predict ridership in rainy and non-rainy days
- Project3: Data Wrangle OpenStreetMaps_improve OpenStreetMaps in Las Vegas
- Project4: Explore and Summarize Data: Insight into Startups
- Project5: Identifying Fraud from Enron Email
- Project6: The data incubator fellowship semifinalist projects

ONLINE COURSES

  Data Science: Python: R: MongoDB: SQL: Github: LinkedIn

Udacity

Intro to Machine Learning (In progress)

Data Analysis with R (complete)

Data Wrangling with MongoDB (12/16/2014, verified certificate)

Intro to Data Science (12/5/2014, verified certificate)

Intro to Computer Science (2/13/2014, certificate)

Coursera

Machine Learning (Stanford University, In progress)

Coding the Matrix: Linear Algebra through Computer Science (Brown University, In progress)

Algorithmic Thinking (Rice University, 11/7/2014, with distinction)

Principles of Computing (Rice University, 8/12/2014, with distinction)

Bioinformatics Algorithms (Part 1) (UCSD, 2/24/2014)

Algorithms: Design and Analysis, Part 2 (Stanford University, 11/2/2013)

Algorithms: Design and Analysis, Part 1 (Stanford University, 9/3/2013)

[An Introduction to Interactive Programming in Python](#) (Rice University, 7/6/2013, with distinction)
W3School
SQL (http://www.w3schools.com/sql/)

EDUCATION

Data Analyst Nanodegree   **Udacity, USA**
> 2014, in progress

Institute of Biochemistry and Cell Biology   **Shanghai, China**
> PhD, 2011. Developmental Biology.

Nanjing University   **Nanjing, China**
> BSc, 2004. Biotechnology.