Tong Li
Data Scientist - BASF Corporation

San Diego, CA - Email me on Indeed: <u>indeed.com/r/Tong-Li/92c095cd6d80e0ad</u>

• Proficient Data Engineering and Modeling skills using Python, Scikit-learn, Numpy, Pandas and SQL
• Enthusiastic in new data science problems and artificial intelligence solutions
• Excellent interpersonal, analytical, writing and communication skills
• Self-motivated, quick learner and capable of working efficiently both as individual and as part of a team
Willing to relocate: Anywhere
Authorized to work in the US for any employer

WORK EXPERIENCE

Data Scientist
BASF Corporation - July 2016 to Present

• Direct, hands-on, scientific support for projects by analyzing genome, proteome, transcriptome datasets using advanced statistical models and machine learning methods
• Develop, apply, and evaluate new software solutions and web applications to manage workflow automation, pathway analyses, and data visualization

Postdoctoral Fellow
Penn State University   -   State College, PA - July 2013 to June 2016

• Developed and implemented new algorithms for protein design using Python and C++
• Built antibody fragment database and predictive machine-learning models to understand antibody-antigen interaction
• Simulated the dynamics of large biomolecules using High Performance Computing
• Coached PhD and Master students in problem-solving using programming and bioinformatics algorithms

Postdoc
University of North Carolina at Charlotte   -   Charlotte, NC - February 2012 to June 2013

Develop distance constraint model for charactering protein stability/flexibility relationship
Simulated the dynamics of large biomolecules using High Performance Computing

Research Scientist
Chinese Academy of Sciences - November 2009 to January 2012

• Re-engineered distance constraint model for charactering protein stability/flexibility relationship
• Test and deployed two Android applications: Protein and Gene Aligner
Chinese Academy of Sciences, China Research Scientist 11/2009-01/2012

EDUCATION

PhD in Bioinformatics
Katholieke Universiteit Leuven
July 2005 to October 2009

Master in Bioinformatics
Katholieke Universiteit Leuven

July 2005

Master in Pharmacology
Ocean University of China
July 2004

Bachelor in Pharmaceutical Chemistry
Ocean University of China
July 2001

MIT

LINKS

https://github.com/tongli12

https://www.kaggle.com/tong2016

https://www.linkedin.com/in/tong-li-b78a2765