—More detail see:Linkedin and *GitHub*

Xiang Li*—Resume*

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OBJECTIVE

A position in Bioinformatics & Data Science

EDUCATION

PhD., Candidate., George Washington University, Physics 09/2016 ~ Present
B.S., Huazhong University of Science & Technology, Applied Physics 09/2011 ~ 07/2015
G.P.A. 3.71/4.0, Rank: 11/154

SKILLS

Program and Software Skills:

- Good Level : Linux Administration, Shell Scripting, LaTeX
- Intermediate: Github, Python (pandas, iPython), Fortran, MATLAB
- Basic level : C/C++, Java

Experiences

Graduate Research Assistant (Superviser: *Prof. W. Peng* , Collaborator: *Prof. H. Xue*)
Physics Department of GWU Washington, DC, April 2017 ~ Present

- Regulatory Mechnism of Immunosuppressive function in Treg Cells.
- Design multiple algorithm for dealing with the order of tens of billions genomic data. (DNase_seq, HiC, ChIPSeq, RNASeq and etc.)
- Using multi-NGO programs embeded in Shell Scripting and Python to build highly efficient pipelines to solve some technical and scientific problems we meet from genomic data study.

Internship (Collaborator: *Dr. Z. Jin*)
International Monetary Fund Washington, DC, Aug 2018 ~ present

- Modeling Study of Currency Exchange Rate wiht comprehensive economic datasets.
- Implementing Recurrent Neural Network(RNN) with Long-Short-Term-Memory unit.
- Applying many other machine learning algorithms.

Scholarship Holder (Summer Institutes, *University of Washington*)
Department of Biostatistics, Seattle, July 2018 ~ August, 2018

- A scholarship and travel grant provided to attend the 2018 Summer Institutes.
- Topics Including: 1.Genetics and Genomics, 2.Computational Pipeline, 3.Quantitative Genetics

Joint Leader of Student Innovation Group (Adviser: B. Yu)
Qiming College of Huazhong University of Science & Technology Wuhan, Summer and Fall 2014

- 2014 International Biomolecular Design Competition, *BIOMOD, Harvard*, Cambridge, Massachusetts.
- Invest 'The nano-scale transportation system based with magnetic control device.'
- Repeat and modify the theoritical model work from an article, and find optimal parameters.
- Conducting the final presentation on behalf of our team.
- For more detail, please visit our website: *BIOMOD 2014: HUST-CHINA*

Research Assistant (Superviser: *Prof. M. Dai*)
State Key Laboratory of Marine Environmental Science Xiamen, Dec 2014 ~ July 2015

- Invest 'The uncertainty sources from sparsely distribution GeoData (Sea Surface pCO2)'.
- Design a new algorithm for quantifying uncertainty basing on Kriging Model.
- Develop a MATLAB mini-apps to do the above job with the input data and plus one click.

Research Assistant Student (Superviser: *C. Chen*)
Biophysics Group in Huazhong University of Science & Technology Wuhan, Summer 2014

- Internship: Invest 'The Optimization Problem', programming basing Fortran.
- Basing on BFGS Methods, study comprehensively about different Optimization algorithm.
- Prepare the introduction-level courseware about the optimization problem for graduate courses.

Teaching Experiences

Assist & Teach for General Physics. (With Professors: *X. Qiu* / *G. Younes* / *S. Guiriec*) 09/2016 ~ 05/2018
Teaching school fellow Programming and Calculus in English., Xiamen Spring and Summer 2015
Private Teacher for a primary school student., Xi'an Summer 2011

Other Valuable Experiences

Volunteering., Open Source Community & Microsoft Conference, Beijing Oct 2015
Engineering Assistant., Star Trek 50th Anniversary Exhibition, Beijing Nov 2015

HONORS AND AWARDS

2016 ~ 2021:

- Fellowship in GWU doctoral program $55,000 annually.

2018

- Scholarship in Department of Biostatistics, University of Washington, $1,950

2015:

- Second Prize of Poster in 3rd International Ocean Sciences Summer School. $800
- Video, Graduation video making for school of physics. Award: $1600. (Donated to soccer team.)

2014:

- Project Awards: Silver; International Biomolecular Design Competition 2014, *BIOMOD, Harvard*
- Fellowship $12000 total, Undergraduate Fellowship from College of Life Science & Technology,
- Photography, Consolation Prize. :(

2013:

- Awards ($80) for Second Oral Presentation of Electromagnetism course thesis.
- Scholarship $2800 in total

2012:

- The Third Prize for China Undergraduate Physicist Tournament.
- Scholarship $1600 in total

Soccer:

- Grade 8, Soccer Referee, *US Soccer Federation* 2018 ~ Present
- Team Awards: Top-Four, As a DMF in Soccer Championship (First Level) 2015
- Team Awards: Top-Four, As a Keeper in Soccer Championship (First Level) 2014
- Team Awards: Runner-Up, As a DMF in Soccer Championship (Second Level) 2013

Publications

2018:

- Journal of Experimental Medicine, Under Review (Saojun Xing, Kexin Gai, **Xiang Li**, Zhouhao Zeng, Xudong Zhao, David Meyerholz, Weiqun Peng, and Hai-Hui Xue) Tcf1 and Lef1 transcription factors are required for the immunosuppressive function of regulatory T cells.
- Journal of Experimental Medicine Aug 2018,(Shaojun Xing, Peng Shao, ..., **Xiang Li**,..., Hai-Hui Xue) Tle corepressors are differentially partitioned to instruct CD8+ T cell lineage choice and identity.

2014:

- A new 2-D Model to analyze uncertainty sources of sparse sea surface CO2 partial pressure