Lihua (Neo) Pei *June 24, 1996*

lihua.peidata@gmail.com • lihuapei@gwu.edu • +1 847-848-5805 • https://lihuapeineo.github.io
1600 South Eads ST, Apt 632N, Arlington, VA, 22202.

Education

Stony Brook University   STONY BROOK, THE NEW YORK STATE
Bachelor degree in Applied Mathematic & Statistics (AMS)   *Sep 2014 – Dec 2017*
GPA: 3.55/4.00

The George Wahsington University   DISTRICT OF COLUMBIAL
Master degree in Data Analytics   *Sep 2018 – 2020*

Skills

Computer Skills:
* Programing Languages: **Python, Java, C, MATLAB, R, SAS and Excel**
* Database Management: **Mongo dB**
* Personal interest: **Advanced Photoshop Designer** and Parallel Computing (MPI)

Natural languages: English *(Professional and Proficiency in reading and writing)*, Chinese *(Native)*.

Experience

Optimal Topologies Searching Research Project   STONY BROOK UNIVERSITY
Research Assistant   *Aug 2017 – present*
* Designed and Implemented an algorithm to generate and search the optiamal degree 3 topologies with 64 nodes and Successfully find the optimal 64k3 topologies by applying the algorithm on High-performance Computer.
* **Built and maintained the local database for storing the all generated topologies by Python.**
* Designed the experiment to test five MPI Broadcast methods on Tasishan Clusters to collect datasets of communicational efficiency between different topologies and visulized the results

Parallel Matrix Multiplication Research   STONY BROOK UNIVERSITY
Second Author   *Dec 2017 – present*
* Proposed an algorithmic group that covers practical parallel large-scale matrix mulipulication.
* Collected and analyzed the results of experiments on Seawolf supercomputer and used the Python and Photoshop to vitualized the result.

Scala Computing   GRAND CENTRAL TECH, NEW YORK CITY
Scheduling Project Designer   *Jan 2018 – May 2018*
* Designed the digrams and graphs to show the a new reinforcement learning model PANDA (Policy Advisor Network and Decision Architecture)
* Programed the preliminary simulation and established the database to implement in PANDA model.

Fire Pillar Studio   HONG KONG, CHINA
Android Games Developer & Database Developer   *Jun 2017 – Present*
* Developing a deep-learning program MIB (make it breath) which can auto recognize the characters in pictures and make charaters have a action like breathing.
* Working on developing and maintaining local database for deep-learning training.
* Working on art and virtual design

National Supercomputer Center in Jinan   JINAN, CHINA
High-Performance Computing Research Assistant   *May 2018– July 2018*
* Maintained clusters and collected experimental datasets.
* Assisted to analysis experimental results.

Please refer to my portfolio website (https://lihuapeineo.github.io) for a more complete list of project and work experiences.

Interests

Enthusiastic about researches and studies related to statistics, data analytics, databases management and graphic design