

Libao Jin

CONTACT

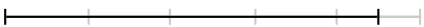
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PERSONAL STATEMENT

Self-driven, detail-oriented, active learner with valuable experience in Machine Learning, Deep Learning, Data Science, Parallel Computing, Computer Graphics, and Computer Vision. Passionate about problem solving with skills in mathematical modeling and algorithms.

SKILLS & TOOLS

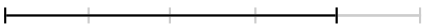
C/C++



Python



MATLAB



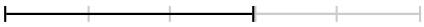
MySQL



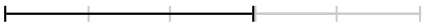
R



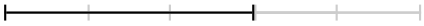
Go



Java



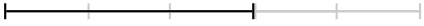
JavaScript



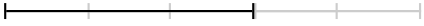
HTML/CSS



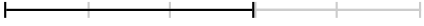
PyTorch



OpenGL



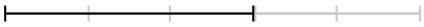
L^AT_EX



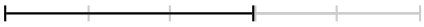
MPI



Git



Vim



EDUCATION

University of Wyoming | Laramie, WY Aug 2016 - May 2021 (expected)
Ph.D. in Applied Mathematics | Minor in Computer Science | GPA: 3.895/4
- Relevant Coursework: Analysis of Algorithms; Computer Graphics; Geometric and Deep Computer Vision; Computational Methods; Dynamic Big Data; Data Science for Security; Blockchain Design and Programming.

Zhejiang University of Technology | Hangzhou, China Sep 2011 - Jun 2015
B.Sc. in Mathematics and Applied Mathematics | GPA: 3.66/4 | Rank: 2/76
- Relevant Coursework: Probability Theory and Mathematical Statistics; Optimal Methods; Data Analysis with R; Operations Research; Database Systems.

EXPERIENCE

Instructor of Introduction to Scientific Computing Lab Aug 2018 - Dec 2019
University of Wyoming | Laramie, WY
- Instructed 16 (on average) students per semester on MATLAB programming, debugging, data visualization, and numerical algorithm implementation.
- Achieved 23 % higher teaching effectiveness than the department benchmark by strengthening students' programming and problem solving skills.

Research Intern May 2017 - Aug 2017
CellDrop Inc. | Laramie, WY
- Remodeled and simulated the polymerization of droplets using PyQt5 in Python.

PROJECTS

CNN Classifier for Animal Image Dataset Nov 2019 - Dec 2019
[jinlibao/Computer-Vision](https://github.com/jinlibao/Computer-Vision) | Class Project | Python/PyTorch
- Designed 3 convolutional neural network architectures using PyTorch.
- Increased accuracy by 7 % by extensive grid search and transfer learning.

Contact Network of Twitter Users Mar 2019 - Dec 2019
[jinlibao/Tweet-Spatial-Analysis](https://github.com/jinlibao/Tweet-Spatial-Analysis) | Research Project | C++/Python/MPI
- Computed contact network and all-pairs shortest paths in C++, visualized the degree distribution in Python, and accelerated computation by 90 % using MPI.

ML(k)BiCGStab Method Feb 2019 - Mar 2019
[jinlibao/petsc](https://github.com/jinlibao/petsc) | Research Project | C/PETSc
- Simplified and implemented ML(k)BiCGStab method using PETSc in C.

Blockchain Wallet Oct 2018 - Nov 2018
[jinlibao/blockchain-wallet](https://github.com/jinlibao/blockchain-wallet) | Class Project | Go
- Built a blockchain wallet of command-line interface by implementing mining of new blocks, chaining blocks using merkle tree, signature validator in Go.

Ray Caster, Ray Shader, Ray Tracer & Fish Game Oct 2018 - Nov 2018
[jinlibao/Computer-Graphics](https://github.com/jinlibao/Computer-Graphics) | Class Project | C++/OpenGL
- Developed multilevel ray tracing and built a simple GUI game using OpenGL.

BART Ridership April 2018 - May 2018
[jinlibao/bart-ridership](https://github.com/jinlibao/bart-ridership) | Class Project | Python/Pandas/Scikit-Learn
- Analyzed station throughput and created a decision tree predictor using sklearn.

Tower of Hanoi Jun 2013 - Jul 2013
[jinlibao/toolkits/MATLAB/Tower.of.Hanoi](https://github.com/jinlibao/toolkits/MATLAB/Tower.of.Hanoi) | Class Project | MATLAB
- Created a GUI program to animate the solution of Tower of Hanoi in MATLAB.

AWARDS

UW Energy GA Fellowship at University of Wyoming Aug 2016
Outstanding Graduate of Zhejiang University of Technology Jun 2015
National Scholarship in China (< 1 %) Nov 2013