Yunqing Li

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EDUCATION

Lanzhou University Jun 2019

Physics Bachelor Lanzhou

University of London, Royal Holloway Jan 2015 - Jun 2015

(exchange) London

University of California at Berkeley Jul 2014 - Aug 2014

(Summer Session) Berkeley

PROFESSIONAL EXPERIENCE

Haixingtong Co. Ltd. Aug 2020 - Present

Algorithm Developer R&D Wuhan

Develop new/Fine-tune present AI algotithms for detecting abnormalities/making classifications/denoising real world ECG collected from hospitals. Our CNN model for Atrial Fibrillation detection achieves state-of-the-art level in terms of accuracy.

Computational Physics Research Group, Wuhan University Jul 2019 - Jan 2020

Intern Programmer Wuhan

Worked together with group members to perform researches in the field of Condensed Matter. Gained experience of running algorithms on a cluster. Implemented the Trotter-Suzuki Propagation method to solve the Schodinger Equation of a multi-electron system; developed proprietary FFT suitable to our needs using OpenMP.

- Some source code can be found at: https://github.com/Li-Yunqing/Previous-Projects

RESEARCH EXPERIENCE

Several Scientific-Computing Related Research Lanzhou

Independently Conducted

Finished several scientific computing projects, some of them requiring parallel progamming. Typical ones include:

1. Based on cardio-electric model, which is described by a diffusion partial differential equation(PDE), I reviewed the system's behavior with regard to its evolution, and studied the possibility to renormalize chaotic harmful waves using a constant boundary value condition.

2. Based on connection strength among different sections in human brain retrieved from the real world, I used Monte-Carlo method to simulate the "avalanche" phenomenon in human neural system.

- Some source code and papers can be found at: https://github.com/Li-Yunqing/Previous-Projects

PROFESSIONAL SKILLS

- Solid mathematics and physics backgrounds, with passion to apply them to other disciplines
- Python(Proficient) and C/C++ (working experience)
- Understanding common DL Algorithms, such as CNN, LSTM, Transformer, with perticular attention to what's going on behind the scenes
- Familiar with Tensorflow and Scikit-Learn
- Some working experience with Parallel Programming including OpenMP and CUDA
- Others: Numpy, Scipy, Matplotlib

MISCELLANEOUS

- **Languages:** English (fluent) with IELTS: 7.0, TOEFL: 102; Chinese (Native)
- **Interests:** Photography, Outdoors like Mountaineering and Hiking