Tiankui Zhang

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Education _

University of Arizona

Tucson, AZ, USA

PHD IN COMPUTATIONAL BIOPHYSICS, GPA: 4.0/4.0

Aug 2014 - July 2020

• Advisor: Prof. Charles Wolgemuth

Wuhan University

King's College London

Wuhan, Hubei, PRC

BACHELOR OF SCIENCE IN PHYSICS, GPA: 3.85/4.0

Sep 2010 - May 2014

• Top-Notch Students Scientific Development Program (Physics)

• Advisor: Dr. Eugene Lim (King's College London)

London, UK

INTERNATIONAL STUDENT EXCHANGE PROGRAM

Sep 2013 - May 2014

Experience _____

University of Arizona

Tucson, AZ, USA

RESEARCH ASSITANT AND TEACHING ASSITANT

Aug 2014 - Jul 2020

- Served as teaching assistant for various undergraduate physics and astronomy courses
- · Developed a three dimensional massively parallel numerical framework for the simulation of single phase and biphasic vesicles coupled with protein kinetics with professor Charles W. Wolgemuth

Skills ___

Languages

- Chinese native
- English full professional proficiency

computer

- Proficient in programming with Matlab, CUDA C/C++; Using python
- Numerical Methods for PDEs: finite difference, finite element, finite volume, level set method

Applied Mathematics

- High Performance Computing: CUDA, OpenMP
- three years of experience in computational fluid dynamics, computational geometry

Publication

• Tiankui Zhang and Charles W Wolgemuth. Sixth-order accurate schemes for reinitialization and extrapolation in the level set framework. Journal of Scientific Computing, 83(2), 2020.

Manuscripts ______

• Tiankui Zhang and Charles W Wolgemuth. Massively Parallel Simulation of Shape Dynamics of Single Phase and Biphasic Vesicles Coupled with Protein Kinetics.

Honors and Awards _____

2019 top 10%, College of Science Galileo Circle Scholarship

2014 top 5%, Honor Graduate Award of Hongyi School

2013 top 10%, CSC Visiting Student Scholarship University of Arizona Wuhan University Wuhan University