

# Tiankui Zhang

SEEKING A POSTDOC POSITION

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## Education

### University of Arizona

PHD CANDIDATE IN COMPUTATIONAL BIOPHYSICS, GPA: 4.0/4.0, EXPECTED TO GRADUATE IN JUL 2020

Tucson, AZ, USA

Aug 2014 - present

### Wuhan University

BACHELOR OF SCIENCE IN PHYSICS, GPA: 3.85/4.0

Wuhan, Hubei, PRC

Jun 2010 - May 2014

### King's College London

INTERNATIONAL STUDENT EXCHANGE PROGRAM

London, UK

Sep 2013 - May 2014

## Experience

### University of Arizona

RESEARCH ASSISTANT AND TEACHING ASSISTANT

Tucson, AZ, USA

Aug 2014 - present

- 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

### Applied Mathematics

- Skilled at developing numerical algorithms for partial differential equations
- solid background in computational fluid dynamics, computational geometry and GPU coding
- extremely good mathematical capabilities to tackle complex real life problems

## Publications

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