Tiankui Zhang

PhD candidate in Physics, University of Arizona, Tucson AZ, USA

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Education

University of Arizona   *Tucson, AZ, USA*

PhD Candidate in Computational BioPhysics, GPA: 4.0/4.0, expected to Graduate in Jul 2020   *Aug 2014 - present*

- Advisor: Prof. Charles Wolgemuth

Wuhan University   *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)

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 - 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

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	*University of Arizona*
2014	**top 5%,** Honor Graduate Award of Hongyi School	*Wuhan University*
2013	**top 10%,** CSC Visiting Student Scholarship	*Wuhan University*