Tiankui Zhang

☑ zhang.tiankui@foxmail.com | 🎢 tiankuizhang.github.io | 🤾 tiankuizhang

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 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 _

ShangHai Xindi Shang Hai, PRC

Jun 2023 - Now SENIOR RESEARCHER

• Develop feature commands for CAD software: offset curves, bridge surface, surface fairing, fit curve, boundary blend, draft offset

Glodon Shang Hai, PRC

SOFTWARE DEVELOPMENT ENGINEER

• Develop algorithms to solve geometrical problems: silhouette curves, facet

University of Arizona

Tucson, AZ, USA

RESEARCH ASSITANT AND TEACHING ASSITANT

Aug 2014 - Jul 2020

Sep 2020 - Jun 2023

- · 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

computer • Proficient in programming with C++, Matlab, CUDA

• Numerical Methods for PDEs: level set, finite volume

• Computational geometry: solid modelling, NURBS **Applied Mathematics**

Theoretical Knowledge: physics, differential geometry

Languages

• Chinese — native • English — full professional proficiency

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.
- Tiankui Zhang and Charles W Wolgemuth. A general computational framework for the dynamics of single- and multi-phase vesicles and membranes. Journal of Computational Physics, Volume 450, 2022, 110815, ISSN 0021-9991.