Xiongming Dai

Ph.D. Candidate
Division of Computer Science and Engineering
Louisiana State University
Baton Rouge, LA
Email: xdai2@lsu.edu, daixiongming@gmail.com
Cell : (225)-228-5162

Experience

Graduate Research & Teaching Assistant   Louisiana State University   May 2018 - Present
Director   Realis Multimedia Technology Co.,Ltd.   Jul 2016 - Aug 2017

- Currently developing an automated grading system using machine learning for high school level CS for all course named Introduction to Computational Thinking (ICT).
- Served as team leader for developing video games in a graduate level course project
- Served as an Instructor and coordinator for two summer term local high school teacher training program to prepare themselves to teach ICT course.

Project Leader   Realis Multimedia Technology Co.,Ltd.   Feb 2016 - Jun 2016

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Senior Software Development Engineer   VisualTouring Technology Co.,Ltd.   Jun 2015 - Jan 2016

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- Served as an Instructor and coordinator for two summer term local high school teacher training program to prepare themselves to teach ICT course.

Graduate Research Assistant   Huazhong University of Science & Technology   Aug 2012 - May 2015
Software Development Engineer   Huazhong Numerical Control Co.,Ltd.   Aug 2012 - May 2015

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Education

Louisiana State University	Computer Science	Ph.D., (Nov, 2022 (Expected))
Louisiana State University	Computer Science	M.Sc., 2022
Huazhong University of Science & Technology	Mechatronical Engineering	M.Sc., 2015
Changsha University of Science & Technology	Mechanical Engineering	M.Sc., 2012

Publications

- **Xiongming Dai,** Gerald Baumgartner. **Weighted Riesz Particles.** Neural Information Processing Systems(NeurIPS), 2022 submitted

- **Xiongming Dai,** Gerald Baumgartner. **Optimal Camera Configuration for Large-Scale Motion Capture Systems.** Neural Information Processing Systems(NeurIPS), 2022 submitted

- **Xiongming Dai,** Gerald Baumgartner, **Variance Reduction of Resampling for Sequential Monte Carlo.** Association for the Advancement of Artificial Intelligence(AAAI), 2022 submitted

Awards

- Three software copyright
- Two inventive patents

Technical Strengths

- **Languages Proficient:** Python, R,Matlab, C/C++, Shell.
- **Robotic System:** ROS operating system
- **GPU Programming:** NVIDIA CUDA
- **Computer Vision/Graphics:** OpenGL, OpenCV.
- **SDLC/Documentation:** LaTex, Overleaf
- **Platforms/ Frameworks:** Windows, UNIX/Linux •
- **Others:** Git
- **The Most Important:** non-stopable and perseverance in learning