

# Ying WANG

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## OBJECTIVE

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Seeking a Summer 2019 Research Internship in the field of Computer Graphics and Physics Simulation

## EDUCATION

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- PRESENT **Texas A&M University**, College Station TX  
Ph.D. in COMPUTER SCIENCE, Concentration in COMPUTER GRAPHICS  
Advisor: Dr. Shinjiro SUEDA
- JUNE 2017 **Washington University in St. Louis**, St. Louis MO  
M.S. in COMPUTER SCIENCE
- JUNE 2015 **Beijing University of Posts and Telecommunications**, Beijing China  
B.S. in MECHANICAL ENGINEERING

## RESEARCH EXPERIENCE

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- AUG 2017-PRESENT | **Graduate Research Assistant at COMPUTER GRAPHICS LAB, TAMU**  
Working on reducing errors in muscle dynamics under **Dr. Shinjiro Sueda's** guidance. Implemented a 3D rigid body simulator with different types of muscle wrapping, and computed the full contribution of each muscle to the inertia matrix of the rigid body system. Researching on combining deformable object simulations (e.g., FEM) with inverse reduced coordinate dynamics.
- OCT 2016-FEB 2017 | **Graduate Research Assistant at COMPUTATIONAL BIOIMAGING LAB, WUSTL**  
Applied different deep learning methods to image reconstruction problems under **Dr. Mark Anastasio's** guidance. Implemented algorithms and built up a model to classify, evaluate biomedical images using tensorflow framework.
- JAN 2014-MAY 2015 | **Undergraduate Research Assistant at NATIONAL LABORATORY OF PATTERN RECOGNITION, CHINESE ACADEMY OF SCIENCES**  
Applied machine learning algorithms to obtain the 3D mesh decomposition under **Dr. Huaiyu Wu's** guidance. Achieved cascaded merging based on features between neighboring super-patches. Optimized the segmentation results and improved the efficiency of the process.

## COMPUTER SKILLS

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- Languages:** C, C++, MATLAB, PYTHON, MATHEMATICA,  $\LaTeX$
- Web Development:** HTML, CSS, JAVASCRIPT, PHP, BOOTSTRAP, NODEJS, AMAZON EC2
- Softwares:** AUTOCAD, UNITY3D, SOLIDWORKS
- APIs:** OPENGL, EIGEN, TETGEN, MOSEK, LIBIGL

## RELEVANT COURSES

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- TAMU:** Physics Based Animation, Computational Fabrication, Fluid Simulation  
Computational Linear Algebra, Analysis of Algorithms, Operating Systems
- WUSTL:** Computer Graphics, Computer Vision, Geometric Computing for Biomedicine  
Computational Geometry, Computational Photography, Nonlinear Optimization

## INTERESTS AND ACTIVITIES

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Rock Climbing, Violin, Concerts, Volunteering for Film Festivals