

Shan Yang

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PROFILE

I currently work as a research assistant for Prof. Ming C. Lin in GAMMA group. My research interest is mainly on inverse problems in computer graphics and computer vision. It involves optimization, numerical PDE/ODE solving and machine learning.

RESEARCH AND WORK EXPERIENCE

- **Research Assistant, with Prof. Ming C. Lin, UNC Chapel Hill — 2013.01-Present**
Worked on elasticity parameter recovering project
- **Summer Intern, Research, Google — 2016.05-2016.08**
Worked with Chris Bregler and Bryan Seybold on computer vision and VR related topics
- **Summer Intern, Advanced Processor Lab, Samsung Research America — 2014.05-2014.08**
Worked with Liangjun Zhang on design and implement a test framework
- **Summer Intern, Advanced Processor Lab, Samsung Research America — 2013.05-2013.08**
Worked with Magnus Edman on CPU usage visualization
- **Research Assistant, with Prof. Leonard McMillan, UNC Chapel Hill — 2012.08-2012.12**
Worked on tubule recognition and classification in microscopic testis images

EDUCATION

- **University of North Carolina at Chapel Hill, NC, United States — 2012-present**
- **Shanghai Jiao Tong University, Shanghai, China — BE, 2012**
Overall GPA: 90.3 / 100 (3.82/4.0) Rank: Top 5 among 137 students

HONORS AND AWARDS

- **China Aerospace Science and Technology Corp. Scholarship**, top 5% students
- **Tung OoCL Scholarship**, top 5% students
- **Excellent Bachelor Thesis of Shanghai Jiao Tong University**, top 1% students

PUBLICATIONS

- **Shan Yang**, Tanya Amert, Zherong Pan, Ke Wang, Licheng Yu, Tamara Berg, Ming C. Lin, “Detailed Garment Recovery from a Single-View Image”, ACM Transaction on Graphics (TOG), 2016 (accepted)
- Licheng Yu, Patric Poirson, **Shan Yang**, Alex Berg, Tamara Berg, “Modeling Context in Referring Expressions”, European Conference on Computer Vision (ECCV), spotlight, 2016
- **Shan Yang**, Vladimir Jovic, Jun Lian, Ronald Chen, Hongtu Zhu and Ming C. Lin, “Classification of Prostate Cancer Grades and T-Stages based on Tissue Elasticity Using Medical Image Analysis”, International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2016

- **ShanYang**, Ming C. Lin, “Bayesian Estimation of Non-Rigid Mechanical Parameters Using Temporal Sequences of Deformation Samples”, IEEE International Conference on Robotics and Automation (ICRA), 2016
 - **ShanYang**, Ming C. Lin, “Material Cloning: Acquiring Elasticity Parameters from Images”, IEEE Transactions on Visualization and Graphics (TVCG), 2016
 - **ShanYang**, Ming C. Lin, “Simultaneous Estimation of Elasticity for Multiple Deformable Bodies”, Journal Computer Animation and Virtual Worlds (CAVW), 2015
 - **ShanYang**, Wenlong Lu, Lixu Gu, “Real time simulation for buried suture”, Computer Assisted Radiology and Surgery (CARS), 2012
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SKILLS

- Programming: C++, C, Python, Java
- Scientific Computing