

YI LUO

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EDUCATION

2012 - Present **Shanghai Jiao Tong University (SJTU)** B.S. in Physics in June 2016 (Expected)
Department of Physics and Astronomy (International Class) GPA: 81.6/100

RESEARCH

2014 - Present **Soft Matter Lab, Supervised by Jie Zhang**
Rheology in two-dimensional granular flow

- ♦ Set up a Couette apparatus for two-dimensional bidisperse granular flow
- ♦ Sheared the system continuously, tracked the position & orientation of every particle
- ♦ Analyzed stress distribution & evolution from massive photos & image processing
- ♦ Studied diffusion of particles in tangential and radial directions
- ♦ Collaborated with the theoretical group to build a glass transition model
- ♦ Observed shear- jamming phase transition, shear thickening & strong memory effect

2015 **The College Students' Innovative Practice Project of SJTU**
Two-dimensional granular flow with an intruder

- ♦ Set up a two-dimensional vertical granular flow sheared form bottom
- ♦ Calculated the buoyancy of a light intruder rises up in the granular flow
- ♦ Studied the correlation among the buoyancy, local structure and force chains

2013 **The Fourth China Undergraduate Physicists Tournament (CUPT)**
Liquid rope coiling

- ♦ Built flow experiment system, utilized high-speed camera recording coiling motions
- ♦ Proposed a theoretical model by asymptotic analysis of experimental data
- ♦ Examined the model by more experimental results

SERVICES

2013 - Present **League branch secretary of International Class**
Held intra-class activities & was honored with Excellent League Member of SJTU

2013 - Present **Member of the Sunflower Volunteer Society of SJTU**
Volunteered in Shanghai Film Museum & community teaching etc.

2014 **Group leader of TOP CHINA summer program**
Studied with & guided visiting students from Brazil

HONORS

2013 & 2014 & 2015 National Endeavor Fellowship of SJTU
2013 & 2014 & 2015 ZENG Xianzi Excellent College Student Scholarship
2013 & 2014 Academic Excellence Scholarship of SJTU
2013 The Second Class Prize of CUPT (Team Work)
2010 & 2011 The Second Class Prizes of Chinese Physics Olympiad & National Mathematical Olympiad

SKILLS

Language English-fluent & Chinese (Mandarin)-native
Computer Adept in MATLAB (Image Processing), Mathematica, Python, LabVIEW, MS Office & 3D printing