

XUETING ZHOU

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EDUCATION

University of California, Los Angeles, CA	09/2016- 03/2020
• M.S. in Microbiology, Immunology and Molecular Genetics	GPA:3.6/4
• B.S. in Microbiology, Immunology and Molecular Genetics	
University of California, Irvine, CA	06/2013-09/2016
• Major in Biological science	

RESEARCH EXPERIENCE

Z. Hong Zhou Lab at UCLA , Los Angeles, CA	12/2017 – Present
Research Assistant	
<ul style="list-style-type: none">• CryoEM sample preparation optimization<ul style="list-style-type: none">○ Served as project leader and first author○ Purified proteins using size exclusion chromatography and checked sample quality by TEM negative stain○ Used Vitrobot plunger and manual plunger to prepare CryoEM sample○ Operated TEM such as TF20 to collect single particles data and electron cryotomography data○ Reconstructed tomograms and did statistics analysis for the results○ Used Relion to do 2D classification and 3D refinement for single particle micrographs○ Wrote manuscript and made figures for papers○ Updated Batch Tomography protocol• Parasite structure resolving<ul style="list-style-type: none">○ Processed and modeled 3D structure of paraflagellar rod○ Used subvolume averaging technique to reach high resolution.○ Visualized and making figures using UCSF Chimera and ChimeraX○ Predicted, aligned, and compared protein secondary structure○ Wrote manuscript and made figures for papers	
Shin Lin Lab at UCI , Irvine, CA	08/2014 – 06/2016
Undergraduate Researcher	
<ul style="list-style-type: none">• Studied the effects of traditional Chinese medicine on blood flow and body temperature using laser doppler monitor• Operated the Laser Doppler Flowmeter, Infra-Red Thermography, Single Photon Counting System and Single Square Voltage Pulse	

PUBLICATION

1. Chun Xu, Lan Xiao, Yuxue Cao, Yan He, Chang Lei, Yin Xiao, Wujin Sun, Samad Ahadian, **Xueting Zhou**, Ali Khademhosseini*, Qingsong Ye*, Mesoporous silica rods with cone shaped pores modulate inflammation and deliver BMP-2 for bone regeneration, **Nano Research**, **2020**, doi.org/10.1007/s12274-020-2783-z (IF 8.180, my contribution: electron tomography characterization of the nanoparticles)
2. **Xueting Zhou**, Ke Ding, Joon Kang, Z. Hong Zhou, Use surfactants to alter particle distribution and orientation in Cryo-electron Microscopy Samples, **2020**, under preparation
3. Jiayan Zhang*, Hui Wang*, Simon Imhof, **Xueting Zhou**, Ivo Atanasov, Wong H Hui, Kent Hill, Z. Hong Zhou, Structures of trypanosome flagellum paraflagellar rod and mechanism of eukaryotic cell motility, **2020**, ready to submit (my contribution: reconstruction and subtomogram averaging of CryoET, protein secondary structure production and comparison)

HONOR AND AWARDS

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| • Dean's Honors List in UCLA | 03/2019 |
| • Departmental Scholar honor program in UCLA | 01/2019 |
| • Dean's Honors List in UCI | 03/2016 |
| • Dean's Honors List in UCI | 12/2015 |

TEACHING EXPERIENCE

TEACHING ASSISTANT

UCLA MIMG105: BIOLOGICAL MICROSCOPY 09/2018 – 12/2018

- Organized the lab session, coordinated with professors and staffs, and demonstrated the Vitrobot (for CryoEM sample preparation) operation for 50 students.

TUTOR

Advance Academy, Irvine, CA 09/2017 – 06/2019

- Tutored high school students in school classes, AP Biology, AP Chemistry, AP Physics, and SAT exam

LAB TECHNIQUES

- Operated TEM Microscope (FEI TF20) for CryoEM and CryoET
- Experienced with Titan Krios High resolution CryoET using serial EM
- Familiar with Linux environment and cluster computing
- Familiar with Etomo component of IMOD software package, including building tomogram and Subvolume Averaging (PEET) to process data
- Familiar with UCSF Chimera and Chimera X to interactive visualize and analyze molecular structure
- Familiar with RELION for 2D classification and 3D refinement
- Operated Vitrobot Mark IV cryo-sample plunger, Gatan Plasma system SOLARUS, and Manual Plunger
- Experienced with protein purification using AKTA size-exclusion chromatography system