

Xilong(Logan) Zhou

1992zhouxilong@gmail.com, <https://xilongzhou.github.io/>

Education

PhD in Computer Science, **TAMU** August, 2018 – present
MS in Petroleum Engineering, **TAMU** (GPA 4.0/4.0) August, 2014 – August, 2016
BE in Petroleum Engineering, **China University of Petroleum** (GPA 90/100) August, 2010 – June, 2014

Research Interest

Computer Graphics, Deep Learning and Computer Vision

Research Experience

Intrinsic decomposition of texture Summer, 2019 – present
• Design robust deep learning method to estimate the intrinsic properties of texture from a single photograph
Study of Adsorption property of Nanoparticle used in Enhanced Oil Recovery January, 2015 – August, 2016
• A method is developed to study the adsorption of nanoparticles
• The bilayer adsorption model of nanoparticles is proposed and proved using developed method

Publication

Xilong Zhou, Jenn-Tai Liang, Corbin D Andersen, Jiajia Cai and Ying-Ying Lin. “Enhanced Adsorption of Anionic Surfactants on Negatively Charged Quartz Sand Grains Treated with Cationic Polyelectrolyte Complex Nanoparticles”. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 553, 397-405, September 2018.

Teaching

PETE 612: Unconventional Oil and Gas, Teaching Assistant, Fall 2015
PETE 321: Formation Evaluation, Teaching Assistant, Spring 2016
VIZA 271: Computing for Visualization (II) Teaching Assistant, Spring 2017
VIZA 270: Computing for Visualization (I), Teaching Assistant, Summer 2017
CSCE 222: Discrete Structure for Computing, Teaching Assistant, Fall 2018, Fall 2019, Spring 2020
CSCE 221: Data Structure and Algorithm, Teaching Assistant, Spring 2019
CSCE 441: Analysis of Algorithm, Teaching Assistant, Summer 2019
CSCE 421: Machine Learning, Teaching Assistant, Fall 2020

Coursework

Computer Graphics, Physically Based Modeling, Image Synthesis, Digital Image, Data Visualization, Deep Learning for Computer Graphics, Computational Photography, Analysis of Algorithm

Honors & Awards

• Student Representative of CUPB in “Petro Bowl” Contest in ATCE	October, 2013
• National First Prize of National Petroleum Engineering Design Competition (China)	May, 2013
• Honorable Mention of Mathematical Contest in Modeling (United States)	April, 2013
• National Second Prize of National Mathematics Modeling Contest (China)	September, 2012
• Three years of first prize scholarship of CUPB	2011-2013
• Third Prize of Beijing College Art Performance (Saxophone player)	September, 2010

Programming Skills

Python, Pytorch, Cuda, C++, Matlab, Mathematica, Javascript

Extra-Curriculum Activities

Volunteer in the International Triathlon World Championship (2011)
Beijing college student art performance (2010)