Xilong(Logan) Zhou

zhouxilong199213@tamu.edu, 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

Reflectance modeling Summer, 2019 – present

- Design deep learning method to estimate the reflectance model of materials from a single or multiple input photos

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)