

Xilong(Logan) Zhou

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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
- The SVBRDF of texture are estimated from a single photograph input using deep learning method, based on the Cook-Torrance rendering model
- 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

Coursework

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

Technical Skills

Programming: Python, C++, Matlab, Mathematica, Javascript
Equipment: TOC/TN, QCM-D, NanoBrook nanoanalyzer

Extra-Curriculum Activities

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