

“The people who are crazy enough to think they can change the world are the ones who do.”

Education

Louisiana State University

PH.D. IN CHEMISTRY

- Under the supervision of Dr. Revati Kumar

Louisiana, U.S.

Aug. 2014 - PRESENT

Louisiana State University

M.S. IN COMPUTER SCIENCE

Louisiana, U.S.

Aug. 2017 - PRESENT

Nicholls State University

B.S. IN CHEMISTRY

- GPA: 3.78/4.0, President's List from 2012 to 2014

Louisiana, U.S.

May 2014

Skills

Programming Python, C/C++, Scheme, Java, JavaScript, LaTeX

Software LAMMPS, Amber, Gaussian, NWChem, Matplotlib

Languages Chinese, English

Professional Experience

Prof. Revati Kumar's Research Lab

GRADUATE RESEARCH ASSISTANT

- Administer theoretical studies on molecular modeling.
- Performed computational simulation for varying polymer systems.

Baton Rouge, U.S.

Nov. 2014 - PRESENT

Undergraduate Research, Chemistry Lab(Prof. Darcey Wayment)

RESEARCH ASSISTANT FOR <LOW-COST TECHNOLOGY FOR MICROFLUIDIC APPLICATIONS>

- Designed a microfluidic chip that will be able to apply into analytical experiments.
- Fabricated the microfluidic chip with laser printer and transparency films independently.

Thibodaux, U.S.

Aug. 2013 - May. 2014

Undergraduate Research, Chemistry Lab(Prof. Vincent Sichula)

RESEARCH ASSISTANT FOR <SYNTHESIS OF ORGANIC DYE-SENSITIZERS FOR SOLAR CELLS>

- Worked on the synthesis experiments of organic dye-sensitizer.
- Conducted the UV-vis absorption measurements and cyclic voltammetric measurements of the synthesized intermediate products.
- Performed Column Chromatography to purify compounds.

Thibodaux, U.S.

Aug. 2012 - July. 2013

Honors & Awards

DOMESTIC

2014 **Outstanding Graduate Award**, Nicholls State University

2014 **SGA International Student Scholarship**, Nicholls State University

2012 **President's List**, Nicholls State University

Thibodaux, U.S.

Thibodaux, U.S.

Thibodaux, U.S.

INTERNATIONAL

2011	Excellent Student Scholarship , Chongqing University of Posts and Telecommunications	<i>Chongqing, China</i>
2011	First place , Mathematical Modeling Contest	<i>Chongqing, China</i>
2010	Excellent Student Leadership Award , Chongqing University of Posts and Telecommunications	<i>Chongqing, China</i>
2010	Honor Student , Chongqing University of Posts and Telecommunications	<i>Chongqing, China</i>

Presentations

253rd ACS National Meeting

San Francisco, U.S.

POSTER PRESENTATION

Apr. 2017

- Can zwitterionic cyclic polymers show aggregation in solution?

253rd ACS national Meeting

San Francisco, U.S.

POSTER PRESENTATION

Apr. 2017

- Development of a coarse-grained model of polypeptoids for studying self-assembly in solution

APS March Meeting

New Orleans, U.S.

POSTER PRESENTATION

Mar. 2017

- Development of a coarse-grained model of polypeptoids for studying self-assembly in solution

3rd Annual APTEC November Meeting

New Orleans, U.S.

POSTER PRESENTATION

Nov. 2015

- A Molecular Dynamics Study of Cyclic and Linear Polypeptoids

Publications

JOURNAL ARTICLES

Aggregation of cyclic polypeptoids bearing zwitterionic end-groups with attractive dipole-dipole and solvophobic interactions: a study by small-angle neutron scattering and molecular dynamics simulation

Pu Du, Ang Li, Xin Li, Yueheng Zhang, Changwoo Do, Lilin He, Steven W. Rick, Vijay T. John, Revati Kumar, Donghui Zhang

Phys. Chem. Chem. Phys. 19 (22 2017) pp. 14388–14400. The Royal Society of Chemistry, 2017