

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

## Education

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### Louisiana State University

PH.D. IN CHEMISTRY

- Under the supervision of Prof. 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

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

**Software** LAMMPS, Amber, Gaussian, NWChem, Matplotlib

**Languages** Chinese, English

## Professional Experience

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### 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

### Virginia Tech

PARTICIPANT AT THIRD ANNUAL SOFTWARE SUMMER SCHOOL

- Covered a range of software design and optimization topics, including software development, computer architectures, numerical libraries, parallel computing, and GPU/accelerator algorithms.

Blacksburg, U.S.

Jun. 22th 2015 - Jul. 1st 2015

### 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

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### 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

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

## Presentations

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### 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

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### 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