

# *Curriculum Vitae*

## KUNYU WANG

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### Education

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- Nankai University**, Tianjin, China Sep. 2014-Jun. 2018 (Expected)  
*B.S. in Chemistry*, Po-ling Class (Project of Elite Student Cultivation for Fundamental Disciplines)  
• Overall GPA: 3.86/4.0, 91.6/100  
• Major GPA: 3.89/4.0, 91.6/100  
• TOEFL: 108 (R 29, L 30, S 19, W 30)  
• GRE: 329 (V 159, Q 170, AW 3.5)  
• GRE Chemistry: 97%
- Northwestern University**, Chicago, IL, USA Aug. 2017-Feb. 2018 (Expected)  
*Research Internship*
- University of California, Berkeley**, CA, USA Jun. 2017-Aug. 2017  
*Emerging Scholar*, Laboratory Research Experience Program (LRE)

### Research

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- Synthesis of Novel Radical-Bridged Porous Metal-Organic Magnets** Aug. 2017-Feb. 2018  
*Research Internship*, Department of Chemistry, Northwestern University, *Prof. T. David Harris*  
• Synthesized honeycomb metal-organic magnets based on semiquinoid-radical linkers  
• Utilized redox and ion exchange strategies to improve ordering temperatures of the magnets
- Laboratory Research Experience Program** Jun. 2017-Aug. 2017  
*Emerging Scholar*, College of Chemistry, University of California, Berkeley, *Prof. Omar M. Yaghi*  
• Synthesized superacidic MOF-808 by ligand exchange and catalyzed cyclization of citronellal  
• Received trainings of modelling and synthesis of covalent organic frameworks (COFs)
- Preparation of Sensing Devices Based on Conductive MOF Thin Films** Nov. 2016-Jun. 2017  
*Research Assistant*, Department of Chemistry, Nankai University, *Prof. Wei Shi*  
• Polymerized polypyrrole into channels of metal-organic frameworks (MOFs) to improve conductivity  
• Coated the hybrid materials onto ITO glass to obtain thin films to detect volatile organic compounds
- Metal Carbene Mediated Reaction of 1,3-diketone and  $\alpha$ -aryldiazoester** Jun. 2015-Nov. 2016  
*Research Assistant*, Institute of Elemento-Organic Chemistry, Nankai University, *Prof. Shoufei Zhu*  
• Optimized reaction conditions, synthesized substrates and sought out synthetic applications  
• Calculated mechanism of the reaction with Gaussian 09  
• Received technical trainings of organic synthesis and structural characterizations

### Conference

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- International Institute for Nanotechnology Symposium**, Evanston, IL, USA Sep. 2017  
**1<sup>st</sup> NKU-PKU Inorganic Chemistry Conference**, Tianjin, China Jun. 2017  
**30<sup>th</sup> Annual Meeting of Chinese Chemical Society**, Dalian, Liaoning, China Jul. 2016

## Leadership

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### **Class Supervisor for Chemistry Po-ling Class 2015**

Sep. 2015-Sep. 2017

College of Chemistry, Nankai University

- Organized class meetings, academic lectures and campus tours
- Gave lectures on *Advanced Mathematics*, *Inorganic Chemistry* and *Analytical Chemistry* to address needs of freshmen

## Honors

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**1<sup>st</sup> Place LRE Poster Award**, College of Chemistry, UC Berkeley

Aug. 2017

**3<sup>rd</sup> Place Prize of Theoretic Calculation**, College of Chemistry, Nankai University

May. 2017

**1<sup>st</sup> Prize of Chemistry Competition for College Students (Top 10%)**, Tianjin

May. 2016 & Jun. 2017

**National Scholarship (Top 1%)**, Minister of Education, China

Oct. 2015 & Oct. 2016

**Po-ling Scholarship**, College of Chemistry, Nankai University

Mar. 2016 & Oct. 2016

**Excellent Student Leader Honor**, Nankai University

Oct. 2016

**Merit Student Honor**, Nankai University

Oct. 2017 & Oct. 2015

## Expertise

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**Computer skills:** C++, Office, ChemBioDraw, Material Studio, Gaussian 09, Diamond, Origin, MestReNova, SciFinder, Photoshop, Illustrator and Dreamweaver

**Characterization skills:** Nuclear magnetic resonance (NMR), IR spectroscopy, Raman spectroscopy, powder X-ray diffraction, ICP-OES, thermogravimetric analysis, cyclic voltammetry et cetera

**Experimental skills:** Schlenk line and glovebox