

# Shilong Su

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## EDUCATION

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- **Beijing Normal University (BNU)** Beijing, China  
*Bachelor of Science - Chemistry* September 2018 - present
  - **Beijing Normal University** Beijing, China  
*Liyun College: Class of Chemistry* September 2019 - present
  - **Beijing Normal University** Beijing, China  
*Minor: Bachelor of Art - Chinese Language and Literature;* September 2019 - present

## ACADEMIC RESULTS

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- **Grade Point Average(GPA)**  
92.03/100 all course; 91.83/100 all course with test, 3.9/4.0 until Autumn Semester, 2020-2021 Academic Year  
92.20/100 2019-2020 Academic Year  
92.19/100 2018-2019 Academic Year
  - **Rankings**  
4/129; 3/28 in Liyun Class; Academic Ranking until Autumn Semester, 2020-2021  
2/29 in Liyun Class; Academic Ranking 2019-2020 Academic Year  
4/131; Academic Ranking 2018-2019 Academic Year  
1/29; Comprehensive Ranking 2019-2020 Academic Year  
1/131; Comprehensive Ranking 2018-2019 Academic Year

## ACADEMIC VISITING

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- **College of Physical Science and Engineering, Cardiff University** Cardiff, Wales, UK  
*"Catalysts in Chemistry" Summer School* July 20th - August 3rd, 2019  
Best Group Project
  - **Oxford Prospects and Global Development Institute** Remote Online  
*Foundations of Human Sciences: Artificial Intelligence, Chemistry and Physics* August 3rd - August 21st  
Seminar Presentation: How we can cure Fragile X Syndrome Using Genome-Editing Technology  
Seminar Leader: Dr. Natalia Gromak
  - **Oxford Prospects and Global Development Institute** Remote Online  
*Tutorials in Inorganic Chemistry* August 3rd - August 21st  
Totur: Dr. Lydia Gilday

## ENGLISH-TAUGHT COURSES TAKEN

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- **Inorganic Chemistry** Spring Semester, 2018-2019  
*Tutor: Prof. Andreas Mayr, SUNY Stony Brook* Grade: 100/100, highest score
  - **Molecular Biochemistry** Spring Semester, 2020-2021  
*Tutor: Prof. Lilian Hsu, Mount Holyoke College* Grade: 96/100, highest score

## RESEARCH EXPERIENCE

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- **College of Chemistry, BNU** Undergraduate Researcher  
*Advisor: Prof. Louzhen Fan* Apr 2019 - May 2021
    - **Trials on Synthesis of Carbon Dots with fluorescence-phosphorescence dual emission:**  
*Supported by BNU Undergraduate Research Funds*  
Trying Different Precursors to synthesize dual-emissive carbon dots
    - **Trials on the Synthesis of narrow-bandwidth emissive fluorescent Carbon Dots:**  
Trying Different Precursors to synthesize narrow-bandwidth emissive carbon dots, characterize its emissive properties
    - **Purification of Carbon Quantum Dots synthesized from Citric Acid:**  
*Supported by National Undergraduate Innovation Research Funds, excellent project*  
Systematically Purify the Carbon Dots synthesized from citric acid precursors  
Characterize each component, hypothesizing its fluorescent mechanism  
Improve the stability of citric acid carbon dots via different precursors

## LANGUAGE & LANGUAGE TEST SCORES

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- **TOEFL Internet Based Test** December 7th, 2019  
*Total: 108 Listening:29 Reading:30 Speaking:25 Writing:24*
- **IELTS Test (Academic)** March 13th, 2021  
*Total: 8.0 Listening:9.0 Reading:9.0 Speaking:6.5 Writing:6.5*
- **GRE General Test** November 30th, 2019  
*Total: 324 Verbal 155, Quantitative 169, Analytical Writing 3.0*
- **College English Test (CET)-4** June 15th, 2019  
*Total: 651 Listening:224 Reading:231 Writing:196 Speaking:A*
- **College English Test (CET)-6** December 14th, 2019  
*Total: 655 Listening:249 Reading:240 Writing:166 Speaking:B+*

## SKILLS SUMMARY

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- **Experimental :** Hydrothermal/Solvothermal Synthesis, Basic Organic Synthesis(Lab Course Level),UV-Vis, PL & FL, FT-IR; (Lab Course Level Below):ICP-AES, AAS, GC, HPLC
- **Programming:** Python(including numpy,pandas,scikit-learn),R,Java(Course Level), LaTeX(Beginner), Markdown,
- **Computational Chemistry:** Gaussian, Chemcraft, Multiwfn(All beginner level)
- **Other Chemistry Related Software:** ChemOffice
- **Languages:** Chinese(Mother Tongue), English(Fluent,Test scores below)

## HONORS & AWARDS

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- **Honors & Scholarships**
  - National Scholarship-2019-2020 Academic Year (Nationwide Top Undergraduate Award, Top 1%)* December 2020
  - National Scholarship-2018-2019 Academic Year* December 2019
  - Jingshi Scholarship-First Class(Top 10%)-2019-2020 Academic Year* December 2020
  - Jingshi Scholarship-First Class(Top 10%)-2018-2019 Academic Year* December 2019
  - Competition Scholarship-Second Class-2019-2020 Academic Year* December 2020
  - Competition Scholarship-First Class-2018-2019 Academic Year* December 2019
- **Awards**
  - National English Competition for College Students (NECCS)-Second Prize, non-English Major* May 2019
  - NECCS-Third Prize, non-English Major* November 2020
  - 11th Chinese Mathematics Competition-Third Prize, Group A (non-Math Major)* November 2019
  - 12th Chinese Mathematics Competition-Third Prize, Group A (non-Math Major)* December 2020
  - 30th Beijing Mathematics Competition-Third Prize, Group Science Student* December 2019
  - 31th Beijing Mathematics Competition-Third Prize, Group Science Student* December 2020
  - 11th Beijing Chemical Experiment Competition for College Students-Outstanding Award (with Mr. Yiran Liu)* December 2019
  - 12th Beijing Chemical Experiment Competition for College Students-Outstanding Award* December 2020
  - 2021 Mathematical Contest in Modeling-Honorable Mention (with Mr.Jingdong Zhang & Mr.Shuyi Yan)* April 2021

## EXTRACURRICULAR ACTIVITIES

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- **Undergraduate Teaching Assistant, College of Chemistry, BNU** Sep 2020 - Jan 2021  
*Organic Chemistry IA (Bilingual) 2020 fall semester* Lecturer: Prof. Zhong-Lin Lu
- **BNUChem-ugjc(Undergraduate Journal Club, BNU Chemistry)** Jul 2021 - present  
*Founder: Activity reports, paper-sharing, etc.* <https://bnuchem-ugjc.github.io>