

Kunming Shao

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OBJECTIVE

Seeking admission into Chicago University's Genetics, Genomics & Systems Biology Ph.D. program. (GGSB)

EDUCATION

Purdue University, West Lafayette, IN

Major: Biological Engineering /Cellular and Biomolecular Engineering

Minor: Biotechnology

HONORS AND AWARDS

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|---|---------------|
| · Recipient of the 2021-2022 Ladisch ABE Scholarship | April, 2021 |
| · Dean's List and Semester Honors, College of Engineering | June, 2021 |
| · Recipient of the 2020-2021 Alumni & Friends of ABE Scholarship | April 2020 |
| · Purdue Soybean Innovation Competition Reward | May, 2020 |
| · Dean's List and Semester Honors, College of Engineering | 2019 - 2020 |
| · Dean's List, College of Science | January, 2018 |
| · Certificate of Excellence for outstanding performance, ENGR 131 | April, 2018 |
| · Final design project best poster content, ENGR 131 | April, 2018 |

RESEARCH EXPERIENCE

Undergraduate Researcher in the Purdue Center for Cancer Research

January 2021 - Present

- Under the guidance and supervision of Dr. Majid Kazemian. Focusing on gene regulation in EBV virus associated cancer cells and map the host and pathogen interaction in human cancers by cooperating high-throughput sequencing data mining and biological experimental investigating.

Summer Undergraduate Research Fellowship (SURF)

Department of Biochemistry, Purdue University, West Lafayette, IN

May 2021 - Aug 2021

- Worked on the Lytic activation of Epstein Barr virus (EBV) in Stomach Cancer cells

Purdue University Student Soybean Innovation Competition

Purdue University & Indiana Soybean Alliance, IN, USA

August 2019 - May 2020

- Our team designed a biodegradable and compostable soy-based smart phone protective case.
- Ranked 4th among all 60 groups; Completion reward with \$500 award.

Undergraduate Research Project

Department of Agriculture and Biological Engineering, Purdue University, West Lafayette, IN

August 2019 - Jan 2020

- Isolated and amplified the DNA of novel bacteriophage, HapyZ, for genome sequencing.
- Annotated bacteriophage genomes using annotation software and protein sequencing databanks; Contributing to research in collaboration with the HHMI and SEA-Phages Program.

Undergraduate Research Assistant**Department of Biological Sciences, Purdue University, West Lafayette, IN**

August 2019 - Jan 2020

- Under the guidance and supervision of Dr. Zhao-Qing Luo. Used *Legionella pneumophila*, the causative agent of Legionnaires' disease as a model organism to understand the cellular and molecular mechanisms that allow microbial pathogens to survive and multiply within the hostile host cells.

Undergraduate Research Assistant**Department of Botany and Plant Pathology, Purdue University, West Lafayette, IN**

May 2019 - Aug 2019

- Maintained the research filed, record and analysis growth data.
- Under the guidance and supervision of Dr. Gordon G McNickle. Worked on the project of how do plants prioritize in different environment

EXTRACURRICULAR ACTIVITIES**Purdue University Undergraduate Chinese Association (PUCA)****President**

December 2018 - Dec 2019

- Raised \$7000+ for the club for 6 successful students' events
- Collaborated with other Asian student associations for 3 successful festival events

SKILLS

- Languages: MATLAB, Python, Macro, R, Linux
- Software: ImageJ, GIMP, JMP, DNA master, Bash, FlowJo
- Biological Laboratory Techniques: Adept in qRT-PCR, DNA & RNA extraction, gel electrophoresis, cell maintenance, Western blot, Flow cytometry
- Omics: RNA-seq; CHIP-seq; Single Cell RNA-seq