

Weize SUN

Address: 885 6th Ave, Apt 21A, New York City, NY 10001

Email: ws2646@cumc.columbia.edu | +1 3196714459

EDUCATION

Columbia University Mailman School of Public Health

New York City, NY

✧ **Major:** Biostatistics; **Track:** Theory and Method

Sep. 2021-May 2023

✧ **Degree:** Master of Science

The University of Iowa

Iowa City, IA

✧ **Major:** Biology; **Minor:** Mathematics

Aug. 2016-May 2021

✧ **Degree:** Bachelor of Arts

✧ **GPA:** 3.50/4.00

✧ **Honor:**

Dean's List Spring 2020

Dean's List Spring 2017

Dean's List Fall 2016

PUBLICATION

✧ Chunhua Jiao, Kelsey Adler, Xiuying Liu, Weize Sun, Robert F. Mullins, Elliott H. Sohn, Article *Visulization of Mouse Choroidal and Retinal Vasculature Using Fluorescent Tomato Lectin Perfusion*, TVST ARVO Journals, online ISSN: 2164-2591, doi: <https://doi.org/10.1167/tvst.9.1.1>

✧ W W Gu, S Q Lu, Y Ni, Z H Liu, X Y Zhou, Y M Zhu, Y Luo, X Li, L S Li, W Z Sun, H L Zhang, G Z Ao, Article *2-(3',5'-Dimethoxybenzylidene) Cyclopentanone, a Novel Synthetic Small-molecule Compound, Provides Neuroprotective Effects against Ischemic Stroke*, Neuroscience, doi: [10.1016/j.neuroscience.2015.11.052](https://doi.org/10.1016/j.neuroscience.2015.11.052)

ACADEMIC RESEARCHES

Institute of Vision Research, Department of Ophthalmology and Visual Sciences, UI

Lab Assistant of Dr. Elliott H. Sohn

Nov. 2017-May. 2021

✧ Proficiently lab data analyzing with SPSS, solution making and different kinds of lab business, Cryostat sectioning, paraffin sectioning, section staining and sealing, tissue/organism maintenance, experimental equipment cleaning and autoclaving, chemical/animal inventory updating

✧ Studied how the using of tomato lectin would develop a reliable and simplify method to assess choroid and retinal vasculature on whole mount and cross sections in mice

Research Project, **Cosmopolitan Species: Anthropogenic Changes on House Sparrow Distribution in Urban Area**, UI Mentor: Dr. Heather Sander

Dec. 2019

✧ Analyzed the strategies of house sparrow, as a cosmopolitan species, to survive in distinct areas all over the world and the reason why house sparrow in western Europe is decreasing

-
-
- ✧ Conducted library database (Web of Science) and keywords searching “house sparrow” + “distribution”; Screening articles, including content view and quality view; Combining: Took out the most useful parts of each articles, took notes, recombined notes and found out the answers

Academic Report, **Biological Evidence Supports an Early and Complex Emergence of the Isthmus of Panama**, UI Mentor: Dr. Heather Sander Oct. 2019

- ✧ Analyzed if the Isthmus of Panama experienced fully closure by 3.5 Ma or it has a longer and more complex formation

Research Report, **Progeria**, The University of Iowa

Mentor: Dr. Mark Holbrook Nov. 2018

- ✧ Utilized UI library database and key words searching, screened articles and abstracted useful information
- ✧ Designed experiments to solve research questions, and drew charts to supplement research

Lab Report, **Using PCR-based approach to investigate gene variation in Odd Section of Foundations of Biology Class**, The University of Iowa Nov. 2017

Mentor: Dr. John Logsdon

- ✧ Extracted DNA sample, made restriction enzyme digested, and made gel for electrophoresis
- ✧ Added undigested and digested DNA sample as well as DNA size marker into the wells which formed by the gel comb
- ✧ Used Hardy-Weinberg principle to calculate allele frequency, and applied Chi-Square test(goodness of fit) to determine whether the result fits Hardy-Weinberg equilibrium or not

WORKING EXPERIENCES

Healthier Internet Technology (Beijing) Co., Ltd., Beijing, China Jul. 2019-Aug. 2019

Individual Health Improvement and Product Effectiveness Analyst

- ✧ Analyzed the original data of customers' health, and made statistics of daily health changes according to different personal conditioning programs (including body fat, water, protein, blood sugar, blood pressure, etc.), got the change trend by **R**, given the specific improvement scheme

Iowa Memorial Union Kitchen, Iowa City, IA Jun. 2017-May. 2021

Kitchen Associate

- ✧ Assigned tasks to the kitchen staff and performed their duties
- ✧ Organized staff training, delivered regular learning of service skills and techniques, trained staff with service and marketing awareness, regularly checked and made training records

COMPUTER SKILLS & LANGUAGES & INTERESTS

- ✧ COMPUTER SKILLS- Python, R, SAS
- ✧ LANGUAGES- Mandarin (Native) • English (Fluent) • Japanese (Medium)
- ✧ INTERESTS- Swimming, A Cappella (Won 6 awards in Haidian District and Beijing Chorus Contest)