

Kexin Zhang

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## EDUCATION

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**Bachelor of Science in Biomedical Engineering**

**Bachelor of Arts in Psychology Major**

Class of 2022

Case Western Reserve University

- Cumulative GPA: 3.789
- cum laude

**Master of Science in Biology**

Class of 2024

Case Western Reserve University

- Cumulative GPA: 4.0

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## VOLUNTEERING EXPERIENCE

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**Friendly Visit Volunteer at Nursing Home** (2018-present)

Eliza Bryant Village and McGregor Home, Cleveland Ohio

Contact: Chantel Davis ([davischantel13@gmail.com](mailto:davischantel13@gmail.com)), Lillian Zvosecz

([Lillian.Zvosecz@mcgregoramasa.org](mailto:Lillian.Zvosecz@mcgregoramasa.org))

- The program was established based on the idea that social interaction is necessary for one's mental and physical health.
- Weekly visit to the assigned residents who had restrictions of leaving their beds/ rooms
- Assisted nurse when necessary
- Had worked with 11 residents since the beginning of the program
- Organized reflection session with the volunteer group after each visit

**Food Bank** (2018 - present)

Greater Cleveland Food Bank, Cleveland Ohio

Contact: Matt Jackson ([volunteer@clevelandfoodbank.org](mailto:volunteer@clevelandfoodbank.org))

- The program works with the Supplemental Nutrition Assistance Program (SNAP) to deliver foods to low-income families
- selected food from the donation warehouse
- Weighted the food for distribution
- Packaged and labeled the food box for delivery

**Other Community Services** (2018 - present)

xxxxxx, Cleveland Ohio

Contact: Erin Corwin ([exc390@case.edu](mailto:exc390@case.edu))

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**UH Emergency Medicine Volunteer** (2023 - present)

University Hospital, Cleveland Ohio

Contact: Carol Passerell ([Carol.Passerell@uhhospitals.org](mailto:Carol.Passerell@uhhospitals.org))

- Escorted patients/ visitors to the registration desk, the patient's room, or the examining room as appropriate
- Answered call lights from patients' room
- Changed beds, sanitized and restocked patient and examine room
- Comfort rounding with patients
- Run specimens to labs

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## WORK EXPERIENCE

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### **Teaching Assistant** (2022- present)

Department of Biology, Case Western Reserve University

Contact: Dr. Nicole Crown (knc38@case.edu)

- Helped managing the classroom of 210 students
- Assisted in designing the homework
- Graded students' assignment
- Provided feedback for students' projects
- Held helping sessions every week during the semester

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## RESEARCH EXPERIENCE

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### **Undergraduate Volunteer Researcher** (2019-2022)

Department of Genetics and Genome Science, Case Western Reserve University

Contact: Dr. Rui Sousa-Neves (rss105@case.edu)

- Maintained fly stocks for the lab
- Run mating assay over 60 genes to test the effect on female drosophila's mating acceptance
- Identified three proteins that have significant impact
- Poster presentation at the 62rd Annual Drosophila Research Conference

### **Hand Motion Tracker** (2021)

Department of Biomedical Engineering, Case Western Reserve University

Contact: Dr. Colin Drummond (colin.drummond@case.edu), Dr. Matthew Williams (mrw8@case.edu)

- The project was inspired by my shadowing experience at a physical therapist's office
- Aimed at providing objective assessment of the progression of arthritis at hands
- Designed a wearable device that tracked the angles of finger bending and the time frame of hand movement
- Projected real-time hand movement on laptop screen through MATLAB programming

### **Graduate Research Assistant** (2022- present)

Department of Biology, Case Western Reserve University

Contact: Dr. Claudia Mieko Mizutani (cmm153@case.edu)

- Identified one gene that causes major deficit in female drosophila's mating behavior
- Made genetic crosses to test the effect of the gene in a specific type of neuron
- Performed brain dissection
- Applied immunohistochemistry, confocal microscopy, image analysis, and statistical analysis to determine the effect of the gene

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## SHADOW EXPERIENCE

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### **Shadowing at Physical Therapy (2021)**

University Hospital, Cleveland Ohio

Contact: Lisa Berko ([Lisa.Berko@uhhospitals.org](mailto:Lisa.Berko@uhhospitals.org))

- Observed the works of a physical therapist
- Learned the basic procedures in a rehabilitation clinic
- Helped on side tasks for maintenance
- Assisted the patients on their exercise under the supervision of a physical therapist

### **Shadowing at Anesthesiology & Pain Management (2023)**

Cleveland Clinic, Cleveland Ohio

Contact: Dr. Jianguo Cheng ([chengj@ccf.org](mailto:chengj@ccf.org))

- Observed procedures including epidural steroid injection, celiac plexus nerve block, lumbar sympathetic block, radiofrequency ablation, dorsal root ganglion stimulation, stellate ganglion block, and trigger point injection
- Observed X-rays and ultrasound imaging for procedure guidance

### **Shadowing at Women's Health (2023)**

Cleveland Clinic, Cleveland Ohio

Contact: Dr. Lindsey Valentine ([VALENTL@ccf.org](mailto:VALENTL@ccf.org))

- Observed hysterectomy
- Observed clinic consultation of fibroid, endometriosis, and adenomyosis