

Chicago, IL | jstromza [at] luc.edu

I am interested in clinical research in dermatology, ophthalmology, radiology, and cardiology. My current research project aims to quantify blood biomarkers in patients with diabetic retinopathy. We are investigating whether the levels of inflammatory markers vary across different stages of disease progression.

## EDUCATION

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**2023.07 – PRESENT**      **STRITCH SCHOOL OF MEDICINE, LOYOLA UNIVERSITY CHICAGO**  
MD Candidate, Class of 2027  
Intent to participate in STAR Research Honors Program

**2017.09 – 2021.03**      **UNIVERSITY OF CALIFORNIA, SAN DIEGO [CUM LAUDE]**  
Biochemistry and Cell Biology B.S.  
Rady School of Management - Business Minor

## SKILLS

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**Clinical**      Providing physician support in both community health and private practice clinics. Patient education and relaying essential information to providers. Preparing and assisting during surgical procedures.

**Science**      Clinical Data, Industry applications, Molecular Biology, Biochemistry, and Physiology. Experience associating with a lab and conducting research in a BSL-2 Lab Environment. Knowledge in cell cultures, isolating compounds, and PCR techniques.

**Computers**      Experience working with computer scientists for ML pipeline and biological analysis. Software including Spotfire, Microsoft Office, Carestream Imaging, and Adobe CC. Experience using R, Python, and SQL for data analysis and presentation.

**Hobbies**      Sailing, running, biking, bike building + repair, singing in choir, and photography.

## PUBLICATIONS

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**2022.11**      **Nature Scientific Reports**  
Discovery of SARS-CoV-2 Antiviral Synergy between Remdesivir and Approved Drugs in Human Lung Cells  
<https://www.nature.com/articles/s41598-022-21034-5>

**2021.06**      **ACS Infectious Diseases**  
Screening a Library of FDA-Approved and Bioactive Compounds for Antiviral Activity against SARS-CoV-2  
<https://pubs.acs.org/doi/10.1021/acsinfecdis.1c00017>

## EXPERIENCE

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**2023.07 – PRESENT**      **STRITCH SCHOOL OF MEDICINE ORGS AND ELECTIVES – MAYWOOD, IL**  
**Electives and Organizations**

- Leadership in Medicine Elective
- The Inner Physician Elective
- Medical Spanish
- Interested in founding a Tri-Sports Group/Organization at SSOM

**2021.05 – 2023.04**      **BAY AREA COSMETIC DERMATOLOGY – SAN FRANCISCO, CA**  
**Medical Assistant**

- Assisting providers in preparing for and performing dermatology procedures.

- Ability to manage timely patient flow and lead a team of assistants.

2021.04 – 2023.05

**CLINIC BY THE BAY – SAN FRANCISCO, CA**

**Medical Scribe and Food Pharmacy Volunteer**

- Working alongside physicians to provide free and patient focused medical care to uninsured and marginalized adults within the San Francisco community.
- Involved in training new scribes and developing a clinic handbook.
- Providing free and fresh produce for clinic patients to combat food insecurity.

2019.07 – PRESENT

**CENTER FOR EMERGING AND NEGLECTED DISEASES – UC BERKELEY, CA**

**CEND Intern**

- Currently researching the access and distribution of life-saving COVID-19 therapeutics across the US to patients with critical need.
- Co-author on multiple COVID-19 related papers.
- Developing and implementing a small-molecule high throughput screening lab.
- Experience working with Tecan, CyBio, and EnVision equipment for screening.
- Exposure to administrative roles and negotiations with collaborating PIs to successfully begin and continue projects.

2020.06 – 2020.09

**BRISTOL MYERS SQUIBB – LAWRENCEVILLE, NJ**

**Translational Medicine Intern**

- Oncology biomarker research on clinical trial patient samples.
- Collaborated with a Computer Science intern to employ machine learning algorithms to optimize and comprehend biomarker discovery results.
- Integrating data science and biology for large sample screens.
- Knowledge of different screening instruments and assays for TM research.

2020.01 – 2020.06

**UC SAN DIEGO DIVISION OF BIOLOGICAL SCIENCES – LA JOLLA, CA**

**Upper Division Biology Instructional Assistant / Tutor**

- 2nd-time Instructional Assistant for Upper Division Biology courses.
- Led weekly hour-long discussion sections and office hours to develop student understanding of critical concepts in molecular biology and biochemistry.
- Collaboration and communication with the professor and Instructional Assistants to prepare course material and promote an effective learning environment.

2018.12 – 2019.06

**SIO CENTER FOR MARINE BIOTECHNOLOGY AND BIOMEDICINE – LA JOLLA**

**Fenical Lab Research Intern**

- Researched and worked on isolating and purifying therapeutic natural products.
- Presented projects and findings to Lab Manager, Post Docs, and PI.
- Collected and analyzed data to extrapolate bioactive compound structures.
- Experience working with HPLC and LCMS to isolate and identify molecules.

2018.12 – 2019.06

**LA JOLLA SCRIPPS MEMORIAL HOSPITAL – LA JOLLA, CA**

**Cardiovascular Intensive Care Unit Volunteer**

- Assisted with pre- and post-operative patient care in an acute hospital setting.
- Restocked and prepared rooms for incoming patients.
- Transported medical materials including large volumes of blood and medications.