

Research Analyst · Data Scientist

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Education

Master of Science in Health Analytics

Chicago, IL

University of Illinois Chicago

Aug 2023 - Present

Aug 2019 - May 2023

• GPA: 4.00

Bachelor of Science in Biological Sciences

Chicago, IL

University of Illinois Chicago

- · Minors: Computer Science & Public Health
- · Graduated with Highest Distinction
- · Honors College
- GPA: 4.00

Work Experience _____

Research Associate Chicago, IL

Children's Environmental Health Initiative

Jun 2023 - Present

- Instructed state, tribal, and local public health professionals on the use of GIS to assess and address chronic health disparities.
- Performed geospatial analysis of hospital and physician accessibility utilizing two-step floating catchment area methods.
- Developed python Rate Stabilizing Tool to generate generating reliable, local-level age-standardized measures of chronic disease using the restricted CAR bayesian model.

Pharmacy Technician

Arlington Heights, IL

Walgreens

Jul 2021 - Jun 2023

- Utilized electronic health records software to access patient medical records, input insurance, allergy, and health condition records, and resolve patient inquiries
- · Resolved insurance inquiries and resubmitted claims in order to ensure patient prescription adherence
- · Filled, mixed, and dispensed prescriptions for approval by pharmacists

Sales Associate Arlington Heights, IL

Marshalls

Jul 2017 - Jul 2019

- Demonstrated problem-solving and teamwork skills by resolving customer complaints and collaborating with other staff members
- · Managed inventory, cash register and merchandising tasks according to company standards
- Provided excellent customer service, which resulted in the doubling company goals for donations and credit card registrations

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Technical Skills

C, D3, git, ggplot2, HTML, LaTeX, markdown, Plot.js, Python, R, SQL

Software

ArcGIS Pro, Microsoft Office Products

Youth Mentor & Tutor Genify (formerly: Miracle for Youth) Little Village READS Tutor Erie Neighborhood House	May 2020 - Mar 2022
Erie Neighborhood House	/ 0000 N 0000
D 011 D 71	Jan 2020 - Nov 2020
Peer & Near-Peer Tutor UIC Honors College Tutoring Center	Jan 2020 - May 2020
Student Volunteer Northwest Community Hospital	Jul 2018 - May 2019
Teaching Experience	
Using GIS to Study Social Determinants of Health with R Northern Arizona University Center for Health Equity Research	Resource Link Jun 06, 24 - Jun 07, 24
State Health Departments Chronic Disease Surveillance GIS Capacity Building Project	Mar 06, 24 - Jul 31, 24
An Introduction to ArcGIS Online Mini-Course GIS Capacity Building Project	Oct 17, 23 - Oct 24, 23
Tribal Epidemiological Centers Chronic Disease Surveillance GIS Capacity Building Project	Oct 10, 23 - Jan 31, 24
A Gentle Introduction to GIS Mini-Course GIS Capacity Building Project	Sep 19, 23 - Sep 26, 23
Presentations	
RNA-sequencing analysis of Macrophage Hyperactivation UIC Undergraduate Research Forum	Apr 2023
Empowering Community Members to Investigate and Address Chicago's Health Disparities	
American Public Health Association Developing Student Workshops to Increase Community Engagement	Nov 2022
in Addressing Chicago's Health Disparities UIC School of Public Health Research and Scholarship Week Lightning Talks	Apr 2022
Empowering Community Members to Investigate and Address Chicago's Health Disparities UIC Minority Health Conference	Recording Link Apr 2022
Publications	
Significance of IL-34 and SDC-1 in the pathogenesis of RA cells and preclinical models	
• Clinical Immunology • 10.1016/j.clim.2023.109635	May 2023
Inhibition of IRAK4 dysregulates SARS-CoV-2 spike protein-induced macrophage inflammatory and glycolytic reprogramming	

Cellular and Molecular Life Sciences • 10.1007/s00018-022-04329-8	May 2022
Metabolic reprogramming of macrophages instigates CCL21-induced	
arthritis Immunology & Cell Biology • 10.1111/imcb.12512	Dec 2021
Metabolic regulation of RA macrophages is distinct from RA fibroblasts and blockade of glycolysis alleviates inflammatory phenotype in both cell types Cellular and Molecular Life Sciences • 10.1007/s00018021039785	Oct 2021
Interleukin-34 Reprograms Glycolytic and Osteoclastic Rheumatoid Arthritis Macrophages via Syndecan 1 and Macrophage Colony- Stimulating Factor Receptor Arthritis & Rheumatology	Sep 2021
• 10.1002/art.41792 Tofacitinib thorapy intercents macrophage metabolic reprogramming	
Tofacitinib therapy intercepts macrophage metabolic reprogramming instigated by SARS-CoV-2 Spike protein European Journal of Immunology • 10.1002/eji.202049159	Jun 2021
CCL25 and CCR9 is a unique pathway that potentiates pannus formation by remodeling RA macrophages into mature osteoclasts European Journal of Immunology • 10.1002/eji.202048681	Jan 2021
IRAK4 inhibition: a promising strategy for treating RA joint	
inflammation and bone erosion Cellular & Molecular Immunology • 10.1038/s41423-020-0433-8	May 2020
Macrophages are the primary effector cells in IL-7-induced arthritis Cellular & Molecular Immunology • 10.1038/s41423-019-0235-z	Jun 2019
Impact of obesity on autoimmune arthritis and its cardiovascular	
complications Autoimmunity Reviews • 10.1016/j.autrev.2018.02.007	Jun 2018
Honors	
Highest Distinction UIC Department of Biological Sciences	2023
Pasteur Prize Nominee UIC Department of Biological Sciences	2023
Research Grant UIC Honors College	2022
Travel Grant UIC Honors College	2022

Maurice Prize	
UIC Student Leadership and Civic Engagement	2022
Undergraduate Most Outstanding Presentation UIC School of Public Health Research Week	2022
Chancellor's Student Service Award UIC Student Leadership and Civic Engagement	2022
President's Volunteer Service Award - Bronze UIC Student Leadership and Civic Engagement	2021
1st place - Division 4 Collegiate Chess League	2021
Chancellor's Student Service Award UIC Student Leadership and Civic Engagement	2021
Research Grant UIC Honors College	2020
Professional Membership	
American Public Health Association	Jan 2022 - Present
Harvard Innovation Lab	Jan 2022 - 1 163611
	Sep 2022 - Aug 2024
Clinton Global Initiative University Fellowship	
American Society for Biochemistry and Molecular Biology	Mar 2023 - Nov 2023
American Society for Biochemistry and Molecular Biology	Oct 2020 - Dec 2022
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Leadership	
Secretary UIC Society of Future Physicians	2021 - 2023
President Chess Club at UIC	2021 - 2023
Secretary UIC American Society for Biochemistry and Molecular Biology	2021 - 2022
Media chairman Spreading Healthcare Awareness through Reciprocal Education (SHARE)	2020 - 2022
Student leader UIC Student Leadership and Civic Engagement	2019 - 2022
Chapter representative UIC American Society for Biochemistry and Molecular Biology	2020 - 2021
Vice-president	
Chess Club at UIC	2020 - 2021