

Ryan Zomorodi

Research Analyst · Data Scientist

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Education

Master of Science in Health Analytics

Chicago, IL

University of Illinois Chicago

Aug 2023 - Present

- GPA: 4.00

Bachelor of Science in Biological Sciences

Chicago, IL

University of Illinois Chicago

Aug 2019 - May 2023

- 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

Skills

Technical Skills

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

Software

ArcGIS Pro, Microsoft Office Products

Service

Youth Mentor & Tutor

Genify (formerly: Miracle for Youth)

May 2020 - Mar 2022

Little Village READS Tutor

Erie Neighborhood House

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

Nov 2022

Developing Student Workshops to Increase Community Engagement 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

May 2023

• 10.1016/j.clim.2023.109635

Inhibition of IRAK4 dysregulates SARS-CoV-2 spike protein-induced macrophage inflammatory and glycolytic reprogramming

- 10.1007/s00018-022-04329-8

Metabolic reprogramming of macrophages instigates CCL21-induced arthritis

Immunology & Cell Biology

Dec 2021

- 10.1111/imcb.12512

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

Oct 2021

- 10.1007/s00018021039785

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 therapy intercepts macrophage metabolic reprogramming instigated by SARS-CoV-2 Spike protein

European Journal of Immunology

Jun 2021

- 10.1002/eji.202049159

CCL25 and CCR9 is a unique pathway that potentiates pannus formation by remodeling RA macrophages into mature osteoclasts

European Journal of Immunology

Jan 2021

- 10.1002/eji.202048681

IRAK4 inhibition: a promising strategy for treating RA joint inflammation and bone erosion

Cellular & Molecular Immunology

May 2020

- 10.1038/s41423-020-0433-8

Macrophages are the primary effector cells in IL-7-induced arthritis

Cellular & Molecular Immunology

Jun 2019

- 10.1038/s41423-019-0235-z

Impact of obesity on autoimmune arthritis and its cardiovascular complications

Autoimmunity Reviews

Jun 2018

- 10.1016/j.autrev.2018.02.007

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	Sep 2022 - Aug 2024
Clinton Global Initiative University Fellowship	Mar 2023 - Nov 2023
American Society for Biochemistry and Molecular Biology	Oct 2020 - Dec 2022

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