

Jacob Jörgens

Email: jacob.joergens@gmail.com

Website: jacobjoergens.com

EDUCATION

The University of Chicago

• Major: Physics

Chicago, Illinois
October 2017-June 2021

EXPERIENCE

Elizabeth Moyer Group

Research Assistant and Member of PIRE-Cirrus

Chicago, Illinois
June 2018-February 2023

- Redesigned the CHIWIS-ICOS instrument for testing at the IEETA cloud chamber
- Diagnosed and developed the BEAM carbon emulator for social cost of carbon research
- Pushed ICOS technology through NSF's Innovation Corps together with post-doc Ben Clouser

Common Worlds

Community Service

Chicago, Illinois
April-August 2022

- Built playgrounds and developed communal spaces in underserved neighborhoods

57th Street Design (<https://57stdesign.com/>)

Fabricator and Computational Modeler

Chicago, Illinois
March 2021-October 2021

- Built a parametric model of a mass timber building typology in ghPython/Rhino
- Constructed a half-scale prototype of a mass timber floor cassette module

Environmental Research Group (<https://enviroresearchgroup.github.io/erg/>)

Board Member/Steering Committee

Chicago, Illinois
September 2018-June 2021

- Led the modeling subteam in projects on building energy use, air pollution, and traffic to work toward data-driven social good in the City of Chicago

Uncommissioned Design

Co-Founder

Chicago, Illinois
January 2019-September 2020

- Awarded \$10K grant through the Polsky Accelerator to develop parametric furniture design startup
- Competed in the College New Venture Challenge and awarded the Student Creativity Grant

Watchtower Robotics

Engineer

Boston, Massachusetts
June-September 2019

- Redesigned soft-robotic parts and processes in the production of water pipe-inspection robots

Vertical Farming

Engineer/Farmer

New York, New York
July 2016-September 2017

- Engineered automated sensors using IoT devices for Verticulture and Farm.One (www.farm.one)
- Designed and built a fully-automated aeroponic green wall

Cancer Research

Research Assistant

New York, New York
June 2013-June 2016

- Conducted research on acute myeloid leukemia in Dr. Ross Levine's Lab at MSKCC published in the Journal of Experimental Medicine: <https://doi.org/10.1084/jem.20150524>

Software

Programming Languages

Rhino, Grasshopper, Fusion360, Eagle, ArcGIS

Python, C, R, Javascript, HTML/CSS