

# Justin Kleidermacher

University of Chicago | Chicago, IL 60637 | (305) 987-6462 | jkleidermacher@uchicago.edu

## EDUCATION

### The University of Chicago

*Computer Science - Masters*

**Chicago, IL**

2021 – 2025

- **GPA:** 3.75/4.00 — Dean's List
- **Relevant Coursework:** Intro to Computer Systems, Math for the Physical Sciences (linear algebra, multivariable, differential equations), Discrete Math and Theory of Algorithms (upcoming quarters)

### Miami Beach Senior High School

• **GPA:** 4.00/4.00; **SAT:** 1560 (800M, 760R)

**Miami, FL**

2017 – 2021

- **Honors:** Valedictorian, The IB Program, National Merit Scholar, National AP Scholar

## WORK & COMMUNITY SERVICE

### Threedle - A computer graphics research collective

*Researcher*

**Chicago, IL**

2022 – Present

- Identified shortcomings in prominent loss functions (Chamfer distance) used in computer graphics
- Implemented a novel loss function with PyTorch, using vector fields to better compare meshes.
- Experimented with mesh deformations using the new loss function and presented findings at weekly meetings.

### PJ Pillows (Instagram: @pjpillows)

*Founder and President*

**Miami, FL**

2017 – 2022

- Started an e-commerce company raising \$14,000+ for Alzheimer's research.
- Donated 100+ handmade photo pillows to Alzheimer's patients.
- Partnered with the Miami Alzheimer's Association to create pillows for their grand champion teams

### Mathnasium

*Instructor*

**Miami, FL**

2019 – 2021

- Taught math concepts including geometry and calculus to students in grades K-12

## TECHNICAL PROJECTS

### Personal Website (<https://justinkleidermacher.com/>)

- Designed personal website, incorporating HTML, CSS, and JavaScript

### Chess Practice Bot

- Created a playable chess interface on Python, accounting for the logic and rules of chess.
- Implemented a chess AI with adjustable rating approximations and diverse opening repertoires to serve as an ideal opponent for chess practice.

## ACTIVITIES & AWARDS

### Competitive Chess

*UChicago Chess Club*

**Miami, FL**

2021 – Present

- Attend weekly matches and tournaments with the UChicago chess team

*Pre-College*

2009 – Present

- Peak USCF rating of 1960. Placed top two in Florida and top ten in the nation

### UChicago CS Student Activities Council (hack@uchicago)

*Member*

**Chicago, IL**

2020 – Present

- Attend Hack Nights, discussing topics ranging from machine learning to computer security

### Speech and Debate

*Public Forum*

**Miami, FL**

2017 – 2021

- Florida state champion in 2020 and placed top twenty in the nation in 2019

## SKILLS

**Computer Languages:** Python, PyTorch, C/C++, Racket, HTML/CSS (basic)

**Foreign Languages:** Spanish

## INTERESTS

Philosophy, Hiking, Super Smash Bros, Chess, Fantasy Football, Beach Volleyball