

Emma Koehler

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EDUCATION

Long Island University – Brooklyn

Brooklyn, NY

Honors BS in Computer Science / Honors Society Secretary / AI Club Secretary

Expected Graduation May 2025

- **GPA:** 3.89/4.0

EXPERIENCE & LEADERSHIP

University of Illinois Chicago College of Medicine

Chicago, IL

AI Research Assistant

May 2024-July 2024

- **Optimized** quality data inputs by 63% by annotating 7,000 individual components of healthy eyes in CVAT using the open-source CELEB Dataset, contributing to the development and validation of the first open-source Oculoplastic Specific Dataset. Link to Paper: <https://arxiv.org/abs/2409.20407>
- **Developed & Trained** a segmentation pipeline using DeepLabV3 with a ResNet-101 backbone, contributing to robust Dice scores (.78 to .96) for key anatomical structures (brows, lids, scleras, irises, and caruncles) and enhancing the accuracy of ocular feature identification.
- **Fine-tuned** the model's ability to autonomously identify ocular features, improving its accuracy in supporting disease tracking and early detection in oculoplastics.

Blue Fins & International School Bangkok

Brooklyn/Bangkok

Lesson Manager/Swim Coach

October 2020-Current

- **Lead & Oversee** swim lessons, ensuring safety, advising coaches, and managing equipment
- **Swim Coach** for ages 3-15 at Blue Fins
- **Coached** elementary students at International School Bangkok

Disney's Vero Beach Resort

Vero Beach, FL

Recreation Cast Member

May 2023-August 2023

- **Lifeguard** for the resort pool as well as maintaining the pool and pool deck area
- **Interacted** with guests by fulfilling requests and answering questions
- **Entertained** guests with activities when the recreation areas were unavailable

International School Bangkok Varsity Council

Bangkok, Thailand

President

August 2021-May 2022

- **Organized & Led** events to raise school spirit
- **Advocated** for the needs of sports teams

Community Liaison Office at the US Embassy

Bangkok, Thailand

Intern

July 2021

- **Planned & Executed** Embassy social events
- **Created** content for newsletter and events

General Service Office at the US Embassy

Bangkok, Thailand

Intern

July 2020

- **Worked** with the procurement team
- **Logged** invoices and worked on spreadsheets

SKILLS, ACHIEVEMENTS & INTERESTS

Achievements: Honors student & Dean Scholar at Long Island University, DI Swimmer, Honors College Mentor

Languages: Spanish (intermediate)

Interests: Cooking, Travel, Nail art, Crafting

Skills:

- Python, C++, Java, and JavaScript coding languages
- Proficient with Microsoft Office, Google, and Canva platforms
- Experience with MySQL and database management