

Yaël Walker

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Education

Université de Paris-Saclay <i>Orsay, France</i>	May 2023
<i>Master of Science, Mathematics of Artificial Intelligence</i>	
Bard College <i>Annandale-On-Hudson, New York</i>	May 2021
<i>Bachelor of Arts, Mathematics Major</i>	<i>GPA 4.0</i>
Bard College at Simon's Rock <i>Great Barrington, Massachusetts</i>	May 2019
<i>Associate of Arts</i>	<i>GPA 3.9</i>
Mathematics and Computer Science Tutor	

Work Experience

Glyf	Spring 2025—
<i>Machine Learning Engineer, Image Models, Remote</i>	
<ul style="list-style-type: none">– Building really, really, good style transfer.– Created a state of the art style transfer pipeline based on the a modified version of the StyleGuide algorithm and SDXL.	
Flim	October 2023—
<i>Machine Learning Research Scientist</i>	
<ul style="list-style-type: none">– Assisted with a collaboration between visual artists Gérard Garouste and Neil Beloufa, using machine learning models trained on their artworks.– Built a generative AI system for “combining” pairs of images. Applied cutting-edge fine-tuning objectives to create and insert custom layers into foundation models.– Built a pipeline to extract the most aesthetically pleasing images from a video. Trained a custom preference model on a large-scale internal dataset, and performed intensive optimization to enable efficient CPU inference. This model was used as part of an agentic workflow that increased the efficiency of our internal content creation team by 300%.	
Invisible College	2021—2022
<i>Full Stack Developer</i>	
<ul style="list-style-type: none">– PeeryView.org– Prototyped and built an online tool implementing decentralized and subjective peer review, and archival and discussion of web links.– Collaborated with the PeeryView design team to determine the tooling needs of the scientific community.	
Bard Summer Research Intensive	Summers 2020, 2021
<i>Research Assistant, Mathematics</i>	
<ul style="list-style-type: none">– Investigated the size of maximal generalized caps in finite affine spaces.– Introduced other students in the research group to the material and supported their exploration of related problems.	
Invisible College	Summers 2019, 2020
<i>Research Assistant</i>	

- Designed and developed a set of decentralized synchronization protocols and algorithms.
- Co-authored IETF draft for universal synchronization protocol.
- Created Javascript and NodeJS tools to analyze and debug synchronization algorithms, including a universal protocol translation demo and a peer-to-peer sync visualization.
- Contributed to client and server code for the [BraidJS](#) library.

Speakeasy Digital Media

September 2018—December 2018

Web Developer

- Created and modified WordPress PHP templates for company blogs.
- Improved page load times by up to ten times by optimization on both front-end page loading and back-end content generation.

Storefront Political

May 2018—August 2018

Data Science Intern

- Analyzed pre-electoral polls, including weighting, cross-tabulating, raking, and cleaning.
- Created R and Python scripts to automate common tasks such as matching ZIP codes to voting districts and visualizing survey results.
- Designed and implemented a webapp for interactive visualization of survey results.
- Managed large PostgreSQL databases containing voter information.