

# Imani Finkley

[imaniefinkley@gmail.com](mailto:imaniefinkley@gmail.com) | [LinkedIn](#) | [GitHub](#)

## SUMMARY

Extensive experience in applied machine learning, data science, and communications for software development and machine learning

## EDUCATION

**Cornell University** | College of Arts & Sciences | Ithaca, NY

**Expected May 2024**

Bachelor of Arts with Honors

**Honors Thesis:** “By AI: Authorship, Literature, and Large Language Models”

**Relevant Courses:** Information Retrieval; AI Practicum; Language Revitalization; Text Mining for History and Literature; Data Structures & Functional Programming; Object-Oriented Programming and Data Structures; Discrete Mathematics; Linear Algebra

**Danish Institute for Study Abroad** | Copenhagen, Denmark

**Jan 2023-May 2023**

**Relevant Courses:** Game Development

## PROJECTS

**hyggeLIGHT** | [Desktop Game](#) | [GitHub](#) | *Lead Artist & Assistant Game Developer*

**March 2023**

- Collaborate in 3-person team to develop 2D-platform, desktop-only video game in Unity written in C#
- Design game characters, setting, and elements

**Bias in Machine Translation** | [GitHub](#) | [Presentation](#) | *Project Manager*

**Aug 2022-Dec 2022**

- Manage a 5-person team to develop project proposal and development plan with Confluence and Notion
- Analyze gender bias in 3 mainstream models — Google, Amazon, and Microsoft — through 800+ English-Arabic and English-Spanish translations of job occupations as listed by the U.S. National Labor Bureau

## SPECIALIZED SKILLS

**Programming Languages/Libraries:** Python, PyTorch, NumPy, Scikit-learn, JAX, FLAX, Java, C#, OCaml, OpenCV

**Tools/Frameworks:** GitHub, Google Collab, Jupyter Notebook, Unity, Google Cloud

**Languages:** Chinese Mandarin (Advanced Working Proficiency), Danish (Beginner Proficiency)

## PROFESSIONAL EXPERIENCE

**Teaching Assistant** | *Cornell University* | Ithaca, NY

**Jan 2024-Present**

- Advise students in developing experiments, data collection, and implementing advanced NLP systems
- Grade projects and host biweekly 1-hour office hours for 15-student course, Advanced NLP for Humanities Research (INFO 4940)

**Communications Assistant** | *Cornell University* | Ithaca, NY

**Sep 2023-Present**

- Assist in development of press releases along with print, digital, and web content
- Compose monthly newsletter that communicates diversity, equity, inclusion, and belonging efforts and engagement opportunities in the Ann Bowers College of Computing and Information Sciences
- Create stories, strategies, and promotional materials for multimedia channels and social media platforms with Canva

**Visiting NLP Researcher** | *Johns Hopkins University* | Le Mans, France

**Jun 2023-Aug 2023**

- Design a PyTorch library version of the Lattice-based Speech Transducer JAX library to demonstrate the benefits of weighted finite state transducers with end-to-end pipelines with real-use speech processing applications with Ehsan Variani
- Research JAX/FLAX and PyTorch APIs to maintain comparable functionality and 32% improvement in system usage

**Computer Vision Researcher** | *Brown University* | Providence, RI

**Jun 2022-Aug 2022**

- Develop machine learning model for language-based image-to-image domain translation in Python with Daniel Ritchie
- Adapt image-to-image translation model architecture and pre-trained text-image embedding model
- Train and test using Visual Computing Lab computing cluster and Google Cloud

**Course Consultant** | *Cornell University* | Ithaca, NY

**Jan 2022-May 2022**

- Lead weekly 50-minute discussion sections for 20 students to review their understanding of discrete mathematics
- Grade homework and exams at least once a week in 2-hour sessions for a roughly 280-student course, Discrete Structures (CS 2800)

## AWARDS

**2024 Outstanding Researcher Award Honorable Mention** | Computing Research Association | December 2023

**2022 Dean's List Award for Academic Excellence** | Cornell University | December 2022

**2022 CMD-IT/ACM Richard Tapia Conference Scholarship** | Cornell University | September 2022

**2021 Grace Hopper Celebration of Women in Computing Scholarship** | Cornell University | August 2021