

# Mikio Tada

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## ACADEMIC & INDUSTRY EXPERIENCE

### Junior Specialist

*University of California, San Francisco (UCSF)*

**San Francisco, CA**

Apr 2021 - Jun 2024

- Developed AI-empowered, robust, and reliable medical imaging analysis methods to enhance the diagnosis of skin diseases.
- Utilized vision transformer models and image processing techniques to identify cell morphological features associated with target cells, thereby developing virtual biomarkers for skin cancer detection.
- Explored self-supervised learning methods that leverage cell morphological features and molecular representation to acquire meaningful biological embeddings, with potential applications in drug discovery and disease prediction.

### Data Scientist

*The Data Institute, University of San Francisco*

**San Francisco, CA**

Aug 2020 - Mar 2021

- Computer vision consulting for a large medical device company, delivering software tools to identify features in images of corneal implant devices.
- Built deep learning models to recognize the position of a corneal implant device relative to a patient's tissue.

### Data Science Intern

*Virgo Surgical Video Solutions (Techstars NYC '17)*

**San Francisco, CA**

Dec 2019 - Jun 2020

- Built an end-to-end pipeline to automatically download videos, extract and preprocess images, and engineer features for convolution neural network models.
- Enabled automatic recording of endoscopic procedures through an image classification model that achieved 98% accuracy.
- Developed a system to automatically classify videos based on the procedure type using a deep learning model. Achieved 95% accuracy, allowing users to search thousands of videos of different procedure types.

## EDUCATION

### Ph.D., Biomedical Science

*Icahn School of Medicine Mount Sinai*

**New York, NY**

Aug 2024 - Present

### M.S., Data Science

*University of San Francisco*

**San Francisco, CA**

Jul 2019 - Jun 2020

### B.S., Mathematics

*Juniata College*

**Huntingdon, PA**

Aug 2015 - May 2019

## PUBLICATIONS

- "Machine-learning convergent melanocytic morphology despite noisy archival slides." **M. Tada**, G. Gaskins, S. Ghandian, N. Mew, M. Keiser, E. Keiser. *bioRxiv*, 2024.
- "Artificial Intelligence and Skin Cancer." M. Wei, **M. Tada**, R. Torres. *Frontier Medicine*, 2024.
- "Learning Melanocytic Cell Masks from Adjacent Stained Tissue." **M. Tada**, M. Wei, M. Keiser. *The 25th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI) workshop*, 2022.

## Abstract

- "Assessing Generalizability and Clinical Utility of AI-enabled Virtual-IHC for Melanocytic Cells" **M. Tada**, M. Wei. *Society for Melanoma Research 21st International Congress*, 2024.
- "Predicting the Presence of Melanoma from Whole Slide Images Using Multiple Instance Learning" **M. Tada**, A. So, M. Wei. *Society for Melanoma Research 21st International Congress*, 2024.

## ADDITIONAL INFORMATION

**Programming Languages** - Python, R, JavaScript

**Data Analysis and Cloud Computing Tools**- SQL, Tableau, Amazon Web Services, Google Cloud Platform, GitHub