

Alex Dils

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Education

University of California, Berkeley

- B.A. in Computer Science
- GPA: 3.7/4.0
- Machine Learning at Berkeley (ML@B)

May 2029

Experience

CTO & Co-Founder, Appraise AI — Berkeley, CA | appraiseai.co

Nov 2025 – Present

- Raised \$15K in pre-seed funding.
- Architected a **multimodal AI pricing engine** (vision + NLP) delivering resale price predictions with **>95% top-3 accuracy**.
- Built a scalable **data ingestion pipeline** (Scrapy, Playwright) collecting **500K+ new listings/day**.
- Led technical strategy and engineering execution; supported early enterprise discussions with marketplaces (eBay, Rebag®, Poshmark).

Research Intern, Stanford Center for Biomedical Informatics Research — Remote

Jun 2022 – Present

- Developed **bias-mitigation techniques** to reduce spurious correlations in skin-lesion segmentation models.
- Simulated lung motion with finite element analysis (FEA) to model breathing-cycle variation; generated augmentations that **improved Dice by >0.05** on tumor segmentation.
- Contributed to Digital Twin research **featured on Stanford Medicine's homepage**.
- Tools: Python, FEniCS, PyTorch, Pandas, NumPy, TensorFlow, SimpleITK, Slurm, PIL, Jupyter, Conda, OpenCV, Keras, scikit-learn.

Coding Teacher, StreetCode Academy — Remote

Jan 2024 – Jan 2025

- Designed and taught a Python curriculum to 30+ students in underserved elementary schools across four 8-week cohorts.

Chess Teacher, Kodely — Menlo Park, CA

Jan 2024 – Jan 2025

- Led after-school chess workshops for elementary and middle school students across 3 school districts.

Summer Camp Counselor, Rally Gymnastics LLC — San Carlos, CA

May 2023 – Apr 2024

- Taught gymnastics fundamentals and led daily activities in a safe, structured environment.

Publications

Enhancing Medical AI with Physiologically-Informed Data Augmentation

Jan 2026 (Expected)

ICML 2026 submission (pending)

Christoph Sadée, Alex Dils, Cally Lin, Audrey Chun, Francisco Carrillo-Perez, Preya Shah, et al.

Eye For An Eye: A Deep-Learning and Analytical Method to Spatializing Stereoscopic Images

Apr 17, 2025

National High School Journal of Science

Alex Dils*, Jake Yoshinaka, Leo McDonnell *all authors contributed equally

Microplastic Identification Using AI-Driven Image Segmentation and GAN-Generated Ecological Context

Oct 27, 2024

arXiv preprint

Alex Dils, David Raymond, Christoph Sadée, et al.

Addressing Bias and Confounders in AI-based Image Diagnosis - A Study of 117,610 Skin Lesions

Jan 2, 2025

Cell (In revision)

Christoph Sadée, Serena Zhang, Alex Dils, et al.

Integrating Mechanistic Knowledge into Deep Learning for Improved Cancer Detection

Jun 16, 2024

FEniCS Conference 2024 Proceedings

Christoph Sadée, Katherine Hartmann, Alex Dils, et al.