

SHAPING TOMORROW'S ART AUTHENTICATION WITH AI

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Art Recognition uses machine learning to analyze artworks and provide data-driven authenticity assessments.

We work at the intersection of computer vision, signal processing, and art history, partnering with collectors, galleries, and institutions to bring scientific rigor to the art world.

Real impact

Your work feeds directly into our production pipeline and client-facing tools.

Interdisciplinary mentorship

Collaborate with ML engineers and domain experts.

Flexible scope

Projects can be tailored to Bachelor's or Master's level requirements.

THESIS & PROJECT TRACKS

Physics-Based Image Augmentation for Art Authentication

Build a realistic augmentation toolkit that simulates how paintings are photographed in the real world — including lighting direction, varnish glare, pigment aging, and camera optics — so our models perform reliably across varied capture conditions.

Explainability Through Feature Attribution

Reveal which visual, textural, and frequency-domain features drive model decisions. You'll connect ML attributions to physically meaningful descriptors (e.g., stroke orientation, energy at specific scales, color statistics) and present them in clear visual summaries.

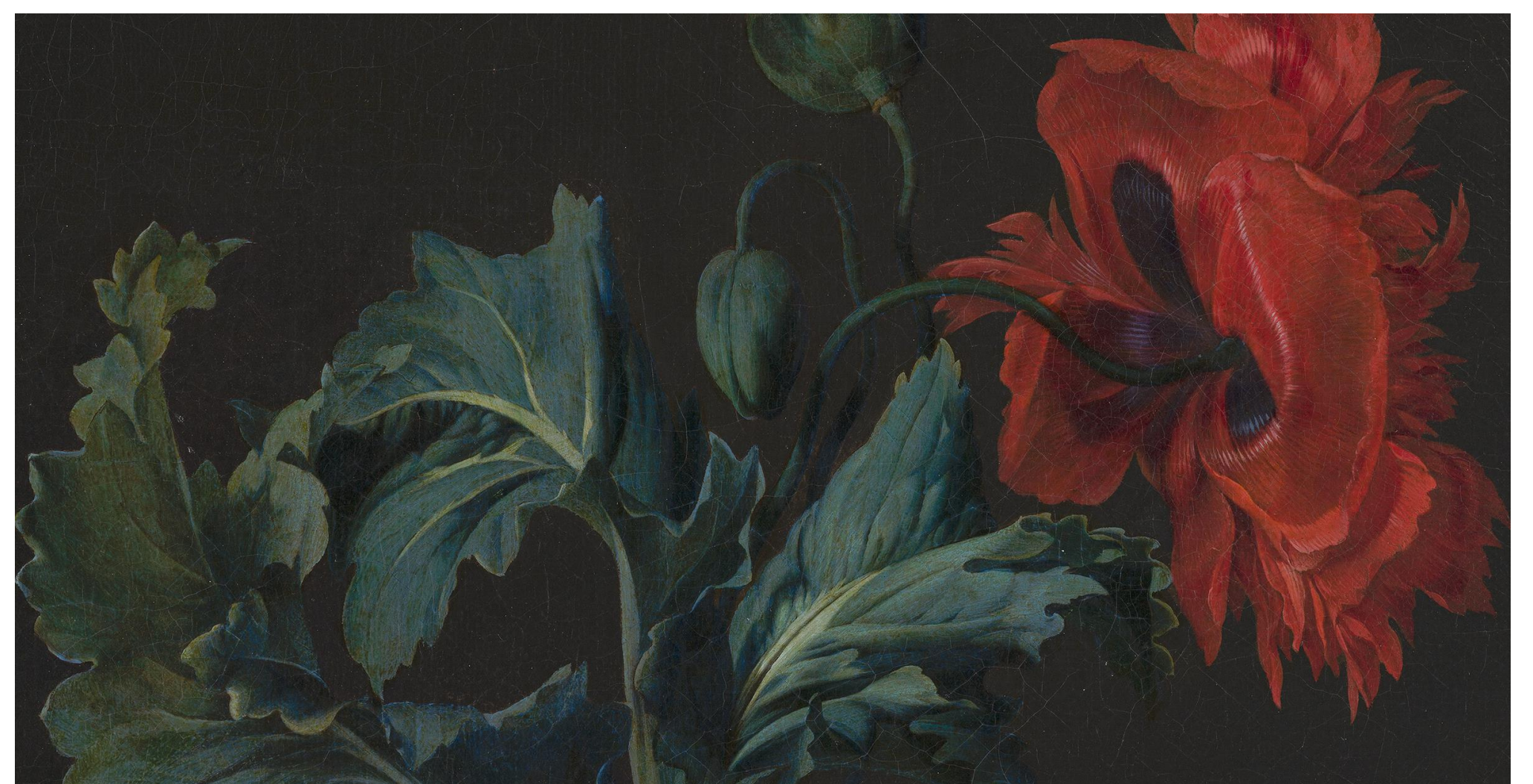
High-Fidelity Diffusion for Artistic Domains (Super-Resolution)

Upgrade our synthetic images from 1080p to 4K with preserved brushstroke fidelity. You'll help build a super-resolution pipeline that turns 1080p synthetic images into 4K synthetic images that preserve and enhance micro-texture detail critical for art analysis and validation.

Feature-Space Modeling

Build a transparent, physics-aligned model that operates entirely in a hand-crafted feature space. Using signal-processing descriptors (FFT statistics, wavelet/scattering energies, Gabor orientation histograms, color distribution moments), the system creates a fixed-length vector per image and predicts authenticity from this vector.

Meet The Team



ART RECOGNITION

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