



Post-Doctoral Position in Image-Based 3D Modeling of Fine Art

Sponsor: Andrew W. Mellon Foundation

Location(s): The Munsell Color Science Laboratory (mcsl.rit.edu), Rochester Institute of Technology, Rochester, NY and the Museum of Modern Art (moma.org), New York City

Principal Investigators: Dr. Roy S. Berns (berns@cis.rit.edu)
Dr. James A. Ferwerda (jaf@cis.rit.edu)

Project Description: The Munsell Color Science Laboratory (MCSL) at RIT is seeking an outstanding researcher for a two-year postdoctoral fellowship in the area of Image-Based 3D Modeling of Fine Art. The goal of the research is to develop advanced methods for creating rich digital representations of paintings and other cultural heritage objects that can serve as surrogates for archiving, analysis, restoration, reproduction, and scholarship. The fellowship is sponsored by the Andrew W. Mellon Foundation as part of a project entitled “Improving Artwork Reproduction through 3D-Spectral Capture and Computer Graphics Rendering”. Research resources of the MCSL include a light measurement laboratory, a custom imaging goniospectrophotometer, a computer cluster, and calibrated spectral printing, display systems, and visual psychophysics laboratories. In addition to research at the MCSL in Rochester NY, the appointment will include extended residencies at the Museum of Modern Art in New York City.

Requirements: Applicants should have a Ph.D. in Computer Science, Computer Graphics, Image/Vision Sciences, or a related field. Applicants with research backgrounds in the following areas will be preferred: Image-Based Modeling/Rendering/Lighting, Computational Photography, Physically-Based Rendering, and Material Appearance. Strong mathematical and computational skills (linear systems/optimization/PCA, OSX/Windows/Unix, MATLAB, C/C++/Cocoa, OpenGL/GLSL, Xcode/Visual Studio, Maya/Radiance/PBRT) and a proven track record of independent research and publication are required.

Application Process: Applicants should email a curriculum vitae, and a cover letter that describes their graduate training, research interests, and qualifications for the position to Ms. Val Hemink (val@cis.rit.edu). Applicants should also arrange to have three letters of recommendation sent to the same address. Review of the applications will be ongoing and will continue until the position is filled. Details about the research are available from either Principal Investigator and from art-si.org.

Research website: art-si.org

Salary: Commensurate with experience.

Start date: Negotiable.

Duration: Two years.