

# Imaging systems to help libraries and museums uncover lost texts

June 26 2020

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Scientists from RIT's Chester F. Carlson Center for Imaging Science inspect a manuscript at an archive in Dubrovnik, Croatia. Pictured are David Messinger, director of the Chester F. Carlson Center for Imaging Science, left; Tyler Peery '19 Ph.D. (imaging science), center; and Professor Roger Easton (bottom left). Credit: Rochester Institute of Technology

Scientists from Rochester Institute of Technology are developing affordable imaging systems to help libraries and museums preserve and expand access to their historical collections. The project, funded by a grant from the National Endowment for the Humanities, aims to create a low-cost spectral imaging system and software that can be used to recover obscured and illegible text on historical documents.

Spectral imaging—the process of collecting [images](#) of objects in many wavelengths of light—can be an effective way of revealing faded text that is undetectable to the human eye on documents that are hundreds of years old. However, existing systems are expensive and require expertise in image processing, which makes them unaffordable and impractical for most special collections. David Messinger, director of the Chester F. Carlson Center for Imaging Science and principal investigator of the grant, said his team is excited to develop a practical solution that puts imaging capability in the hands of curators, archivists and librarians so they can get more out of their collections.

"By the end of this project, we hope we can propagate a lot more of these systems around the globe," said Messinger. "It's currently a very [niche market](#) and the barriers to entry for existing systems are so high that when you talk to people, they think there's no way we can take that on. Our system will be much more user-friendly."

Messinger's collaborators on the project include Tania Kleynhans, associate scientist at the Chester F. Carlson Center for Imaging Science; Roger Easton Jr., professor at the Chester F. Carlson Center for Imaging Science; and Juilee Decker, associate professor in the College of Liberal Arts and director of the museum studies program.

The team is currently designing the system and hopes to have a working prototype by the end of the winter. Next summer, they plan to train students in RIT's museum studies program on how to use the system and

have them field test it at several sites. They will then use those field tests to make further improvements. The [project](#) is slated to run through February 2023.

Provided by Rochester Institute of Technology

Citation: Imaging systems to help libraries and museums uncover lost texts (2020, June 26)  
retrieved 19 April 2024 from  
<https://phys.org/news/2020-06-imaging-libraries-museums-uncover-lost.html>

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