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**Title: Interactive and Interoperable – Technology for Image-based Resources**

**Abstract:** Access to image-based resources is fundamental to research, scholarship and the transmission of cultural knowledge. Yet much of the Internet's image-based resources are locked up in silos, with access restricted to locally built applications. Under the guidance of Dr. Michaels, the National Institute for Newman Studies (NINS) joined a growing community of the world's leading research libraries and image repositories to embark on an effort to collaboratively share their resources and technology with the world. Toward that end, NINS developed an ecosystem of cloud-based servers and applications that leverage the new International Image Interoperability Framework (IIIF) in order to give scholars an unprecedented level of uniform and rich access to their high-resolution image-based archives, metadata, and transcriptions. Join us as we explore the framework, our application of it, the implications of this technology for the future of digital humanities and beyond, and open problems for which expertise in computer science and multimedia plays a critical role.