Nick Krabbenhoeft

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Professional Experience

Digital Preservation Manager, New York Public Library *New York, NY* 2015-Present

- Oversee digital repository growth from 500 TB of digitized images to 5+ PB of digitized and born-digital collections with concomitant growth in storage strategy, complexity, and underlying network infrastructure capacity

- Leading selection and implementation process for the library's first holistic digital repository software

- Fostered growth in digital archives program's staff and capabilities to manage 100+ TB acquisitions

- Built and maintain collaborative relationships to support submission requirements for digital acquisitions

- Authored the library's first Digital Preservation Policy

- Built annual student fellowship program training students in NYPL digital archives workflow and sponsoring research in digital collection topics

Project Manager, Educopia Institute *New York, NY* 2012-2015

- Coordinated and presented on grant-funded research projects for digital newspapers (Chronicles in Preservation, NEH) and ETD programs (ETD Lifecycle & ETDplus, IMLS)

- Collected, cleaned, and analyzed historical data using R, Excel, and CartoDB about collaborative digital preservation projects (ICONC, LC), leadership development programs (NEXUS, IMLS), and ETD programs (ETDplus, IMLS)

- Managed day-to-day operation of the MetaArchive LOCKSS network

Teaching Experience

LIS655 Digital Preservation and Curation *Pratt Institute* 2017-Present

- Teach 15-week, 3-credit course on digital collection lifecycle from acquisition through management to access

- Developed weekly tool experimentation and assessment modules to promote student digital literacy

- Incorporated flipped classroom methodology to better support student discussion and online-learning fatigue

Committing to Documentation *Code4Lib* 2021, *AMIA* 2021

- Co-developed and taught 4-hour workshop on good practices in technical writing for program documentation

ffmpeg Art School *AMIA* 2020

- Built Windows analogs for all Mac/Linux workshop materials and provided technical support

Python for AV Carpentry *AMIA* 2019, *Pratt Institute* 2019, *MIAP* 2020

- Co-developed and taught interactive 5-hour workshop using Python, ffmpeg, mediainfo, and Jupyter Lab notebooks

Metadata in Digitization Workflows *NYU* 2018, 2019, 2020, 2021

- Guest lectures on the opportunities and methods to record metadata during digitization processes

DigitalPOWRR *Arizona* 2018, *Washington DC* 2019

- Taught modules on fixity and quality assurance in digital collection acquisition

- Consulted on POWRR plans for 6 organizations to assess and improve their digital collection management

Education

University of Michigan *Ann Arbor, MI,* Master of Science in Information, Digital Preservation and Records Management

Koç University *Istanbul, Turkey,* Master of Arts, Anatolian Cultural Heritage Management

Indiana University *Bloomington, IN,* BS Mathematics, BA Art History

Publications

Assessing high-volume transfers from optical media at NYPL. Rothrock, Rhonemus, and Krabbenhoeft. *Code4Lib Journal*. forthcoming.

Digital Archives. Rhonemus, Gil, and Krabbenhoeft. *https://nypl.github.io/digarch/*. 2021-ongoing

ETD Lifecycle Management Tools Manual. Schultz, Eisenhauer, and Krabbenhoeft. *Educopia Publishing*. 09/2014.

Nexus Recommendations for Action. Skinner and Krabbenhoeft. *Educopia Publishing*. 08/2014.

Training the 21st Century Library Leader. Skinner and Krabbenhoeft. *Educopia Publishing*. 04/2014.

Guidance Documents for Lifecycle Management of ETDs. Eds: Schultz, Skinner, and Krabbenhoeft. *Educopia Publishing*. 03/2014.

Chronicles in Preservation: Preserving Digital News and Newspapers. Krabbenhoeft, Skinner, Schultz, and Zarndt. *Preservation, Digital Technology & Culture*. 11/2013. DOI: 10.1515/pdtc-2013-0029

Presentations

What is the Standard Format for Digitized Audio? Approaches for Storing Complex Audio Objects. Krabbenhoeft. iPres 2019. Amsterdam, Netherlands. 09/2019

Moving from Reacting to Readiness. Krabbenhoeft. Now! And Then? Preserving Modern and Contemporary Collections in Libraries and Archives 2018. NYC, NY. 10/2018

Digital Curation Workflows Based on Open-Source Software. Lee, Smith, and Krabbenhoeft. iPres 2018. Boston, MA. 09/2018

PRONOM in Practice: Creating File Format/System Signatures for Submission to PRONOM Technical Registry. Clipsham, Wilson, Krabbenhoeft, Peltzman, and Simpson. iPres 2018. Boston, MA. 09/2018

Format Lifecycle Analysis: Visualizing the Rise and Fall of File Format Populations. Krabbenhoeft. iPres 2018. Boston, MA. 09/2018

Stay JSON Schemin'. Havemeyer-King and Krabbenhoeft. Code4Lib 2018. Washington, DC. 03/2018

BagIt Fixer-Upper. Krabbenhoeft. iPres 2017. Kyoto, Japan. 09/2017

Digital Collection Care: Working with Invalid TIFF Files. Krabbenhoeft. NDSA 2016. Milwaukee, WI. 11/2016

We Lost a File. Krabbenhoeft. PASIG 2016 NYC. New York City, NY. 10/2016

Open Preservation Foundation Community Survey 2015. Fay, McGuiness, Wilson, and Krabbenhoeft. iPres 2015. Chapel Hill, NC. 11/2015

When Students Want to Submit More Than a PDF. Krabbenhoeft and Skinner. USetdA 2015. Austin, TX. 09/2015

Lifecycle Management of ETDs Workshop. Krabbenhoeft. USetdA 2015. Austin, TX. 09/2015

And the Survey Says: Lessons from Past Digital Preservation Surveys. Krabbenhoeft. New England NDSA 2015. Dartmouth, MA. 09/2015

Encoded Archival Context - Challenges, Possibilities, and Future (EAC-CPF). Lee and Krabbenhoeft. *SAA 2014*. Washington, DC. 08/2014

Clear as Glass: Controlling the Data Generated by Wearable Technology. Krabbenhoeft. *PDA 2014*. Indianapolis, IN. 04/2014

AMNHEAC-CPFXML.XLS. Krabbenhoeft. *NY Code4Lib*. New York, NY. 10/2013

Modular Curation for ETD Repositories. Schultz, Eisenhauer, and Krabbenhoeft. *Open Repositories 2013*. 07/2013.

Chronicles in Preservation: Preserving Digital News and Newspapers. Schultz and Krabbenhoeft. *Digital Preservation Interest Group, ALA 2013*. Chicago, IL. 06/2013

Professional Service

NDSA Fixity Working Group *Member* 2021

Software Preservation Network, Technical Infrastructure Working Group *Member* 2018-2021

NEDCC, Digital Preservation Assessment Training Institute *Member* 2018

Museum of Modern Art Media Conservation Initiative *Consultant* 06/2016-06/2020

NDSA Infrastructure Working Group *Co-chair* 07/2015-06/2017

NEH Research and Development *Grant Reviewer*

IMLS National Digital Platform *Grant Reviewer*

Programming Contributions

bagit-python *https://github.com/LibraryOfCongress/bagit-python*

– Created local fork for automated mass optical disc transfer software with features for bagging-to-a-new-location and logging failed file reads

– Committed code to expose more methods for BagIt verification

ami-tools *https://github.com/NYPL/ami-tools*

– Created and maintain Python-based toolset for working with packages of digitized audio/video, including validation, metadata updates, converting metadata spreadsheets to JSON files, and repairing metadata contents

ami-metadata *https://github.com/NYPL/ami-metadata*

– Created JSON Schema to support validation completeness, format, and contents of submitted metadata

Skills

Metadata Technology: ASpace, Custom FileMaker databases, EAD, METS, MODS, PREMIS, Custom crosswalk, XML, XSD, JSON, JSON Schema

Digital Archives Technology: Forensics Toolkit, BitCurator, ePADD, Tableau write blockers, Kryoflux, Nimbie (mass optical disc transfer),

Digital Preservation Technology: Archivematica, BagIt, LOCKSS, Preservica, ArchiveIt, Brozzler

Scripting Languages: Python,R, Ruby, Javascript, VBA