

GRACE THOMAS

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EDUCATION

Indiana University (IU)

Master of Information Science (MIS)

July 2016

Master of Library Science (MLS)

July 2016

Specialization: Digital Libraries

University of Nebraska-Lincoln

Bachelor of Arts with Honors and Distinction

May 2014

Major: English, Minor: Computer Science

EXPERIENCE

Data Specialist for Web Archiving

August 2016–Present

Digital Collections Management & Services, Library of Congress, Washington, DC

- Build LC born-digital collections by designing, running, and analyzing in-house harvests of web content
- Maintain over 1 PB of web archived content through indexing (shell, Perl scripts), practicing efficient storage procedures, and organizing data in a proprietary MySQL database
- Provide access to web archives by working with LC cataloguers to streamline MODS production
- Perform analysis on data within the MySQL database and usage statistics for LC web archives
- Explore innovative ways to automate web archives maintenance processes

Cyberinfrastructure for Digital Humanities Graduate Assistant

August 2015–July 2016

Research Services, IU University Information Technology Services, Bloomington, IN

- Create R programming scripts to analyze Shakespeare's drama corpus
- Create and design R notebooks to teach text analysis processes to students, faculty, and other researchers
- Assist researchers with leveraging the IU IT infrastructure at IU to create and execute digital humanities projects

Comic Book Readership Archive (CoBRA) Graduate Research Assistant

January 2015–July 2016

School of Informatics and Computing, Indiana University, Bloomington, IN

- Design and implement MySQL database to archive readership material published in Marvel Comics, 1961-1973
- Design and build web form data entry tool for MySQL database using PHP, AJAX, JavaScript, HTML, and CSS
- Perform data analysis of archive and specific materials

Quality Analyst Associate

January 2015–September 2016

Contracted by Apple, Inc. through Pro Unlimited, Inc. (remote)

- Perform quality analysis of material to further an eBooks research and development project

Digital Preservation Intern, Science & Technology Council

Summer 2015

Academy of Motion Picture Arts and Sciences, Los Angeles, CA

- Created metadata schema to archive 17 terabytes of Next Generation Cinema Technology (NGCT) test shoot materials for long term preservation and access
- Created the metadata record of the NGCT materials for the Science and Technology Council digital archive
- Created UNIX shell scripts to inventory and manage NGCT materials
- Saw materials through migration to University of Southern California digital archive to ensure data integrity

TECHNICAL SKILLS

- CONTENT MANAGEMENT | MySQL, PhpMyAdmin, Omeka, Wordpress, Git, Microsoft Access
- WEB ARCHIVING | Heritrix
- PROGRAMMING | R, Ruby, Ruby on Rails, Python, PHP, XQuery, MALLET Topic Modeling Toolkit, AJAX
- MARK-UP LANGUAGES & METADATA STANDARDS | XML, XSLT, HTML, CSS, Dublin Core, MODS, EAD, TEI
- OPERATING SYSTEMS | UNIX, Mac OS X, Microsoft Windows
- DOCUMENT DESIGN | oXygen, MySQL Workbench, Microsoft Office, Adobe Photoshop
- SPANISH | Limited working proficiency

CONFERENCE PRESENTATIONS

- HASTAC (Humanities, Arts, Sciences and Technology Advanced Collaboratory). Tempe, AZ. May 2016
Building CoBRA, the Comic Book Readership Archive
- HASTAC. East Lansing, MI. May 2015
Human-Computer Collaboration: A Topic Modeling Case Study
- College English Association. Indianapolis, IN. March 2015
Exploring the Gap Between the Digital and the Humanities: A Topic Modeling Case Study
- Digital Humanities. Lausanne, Switzerland July 2014
- *Detection of Poetic Content in Historic Newspapers through Image Analysis*
 Co-Authors: Dr. Elizabeth Lorang, Dr. LeenKiat Soh, Joseph Lunde
 - *Detecting Linguistic Signal in Cather's Early Journalism: Polishing the Bibliography*
 Co-Authors: Ashanka Kumari, Courtney Lawton, Carmen McCue, Joseba Moreno

HONORS & SCHOLARSHIPS

- HASTAC Scholar September 2015–July 2016
 IU ILS Department Merit Scholarship August 2014–July 2015

AFFILIATIONS

- College English Association (CEA) January 2015–Present
 American Library Association (ALA) September 2014–Present
 ALA Library and Information Technology Association (LITA) September 2014–Present
 Association for Information Science and Technology (ASIS&T) September 2014–Present

SERVICE

- Dual-degree Student Representative, IU ILS Curriculum Committee October 2014–July 2016
 LITA Blog Contributing Writer, ALA LITA September 2014–October 2015
 Treasurer, IU ASIS&T Student Chapter August 2014–August 2015