Halle Burns

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Education

**University of Illinois at Urbana-Champaign, Champaign-Urbana, IL**  **Expected Graduation: Spring 2019**  
M.S. in Library and Information Science

Concentration in Data and Access Management

**University of Rochester, Rochester, NY Graduated May 2016**  
B.A. in Psychology

B.A. English (with a Concentration in Theatre)

Cluster in Mathematics and Statistics

Skills

* **Programming Languages**: basic/intermediate Python, basic R
* **Experienced with Markup/Query Languages**: SQL, XML, XPath, TEI, Regular Expressions, Natural Language Toolkit, RDF, and SPARQL
* Experience creating records with PREMIS, CDWALite, Dublin Core, and PBCore metadata schemas. Additional experience with crosswalking
* Familiarity with software such as OpenRefine, Github, OxygenXML Editor, and SQL Developer from Oracle

Research Residencies

**Oxford-Illinois Digital Library Placement Programme, Oxford e-Research Centre Summer 2018**

***Research Assistant on Linked Data for Bodleian Manuscript Collection Project* under Dr. Toby Burrows, Dr. David Lewis, Dr. Kevin Page, and Dr. Athanasios Velios**

* Worked with the Mapping Manuscript Migrations (MMM) Project in conjunction with Oxford Linked Open Data (OxLOD), assessing the practicality of incorporating persistent identifiers into the Bodleian Libraries’ TEI provenance metadata for the purposes of answering MMM research questions.
* Learned and worked through the mapping workflow process built by OxLOD used to transform the Bodleian’s TEI metadata into useable linked data. This required the utilization of Mapping Memory Manager (3M), a linked data mapping tool, as well as Blazegraph, a triplestore and graph database.
* Met with members of the Bodleian team as well as other divisions of the MMM project to learn more about the long-term goals of the project.
* Researched and experimented with Archival Resource Keys (ARK identifiers) and created a proposal involving implementing them within the Bodleian medieval manuscript catalog.
* Presented findings and recommendations to members of MMM and Bodleian Libraries.

Significant Projects

Burns, H., Gloor, E., McComas, G., Orlowska, D. (December 2018). “ThreeDO: Metadata Schema for 3D Objects at Illinois.” Created collaboratively as part of a class project, the ThreeDO Data Dictionary is a resource for implementing descriptive metadata for 3Dobjects. ThreeDO was created to increase searchability of three-dimensional objects created by University-affiliated personnel, which can be interacted with in virtual reality. This project consists of a Data Dictionary, a validating .xsd file, as well as five example object records. The project is publicly available at: https://github.com/hburns2/3DO\_MetadataProject

Burns, H. (December 2018). “Dogs in Media.” This was an open-data research project combining data compiled from Westminster Dog Show, The Puppybowl, American Kennel Club, Wikipedia, and the online meme database KnowYourMeme. The aim of this project was to investigate, based on online and media presence, which dog breed is actually the most popular. Utilizing XPath and JSON (through APIs) as well as some hand-coding, data was scraped from the aforementioned websites and then cleaned using OpenRefine. Data was then compiled, arranged, and analyzed using Python in Jupyter Notebooks. The project is publicly available at: https://github.com/hburns2/Dogs-In-Media

Burns, H. (December 2017). “Investigating NLTK and Playscripts.” This project involved utilizing Python, regular expressions, and the Natural Language Toolkit to parse information relating to theatrical props from playscripts. This extended coding venture for a final developed into a personal research undertaking, investigating the difficulties of dissecting creative texts using code. Ultimately, I aspire to examine the evolution of props, in a theatrical, historical, and social context, analyzing the progression of physical materials utilized in performance.

instruction experience

**Software and Data Carpentries May 2018-Present**

* Taught coding and data science skills through workshops to researchers around University of Illinois at Urbana-Champaign.
* In the process of organizing an initiative to bring Library Carpentries to University of Illinois at Urbana-Champaign with the assistance of Elizabeth Wickes. This includes recruiting certified instructors, finding a venue, advertising the lessons, and assisting with teaching. This is an ongoing project meant to culminate in two days of instruction in late February 2019.
* Lessons taught: Databases and SQL

**University of Illinois at Urbana-Champaign iSchool May 2018-Present**

***Graduate Teaching Assistant* for Elizabeth Wickes, MSLIS, and Nicholas LaLone, PhD**

* Held office hours and graded homework for the IS 452 online courses. Met individually with students to review topics covered in class. Additionally, provided support for students via email.
* Read and evaluated potential textbooks for IS 452 Foundations of Information Processing, the School of Information Science’s introductory Python coding course.
* Assisted in reformatting the Fall 2018 syllabus to better reflect changes in textbook and course design. Congruently, rewrote homework rubrics and solution guides.
* Assisted in evaluating textbooks and creating course content for a proposed undergraduate level course.

Certification and Trainings

**Digital Humanities at Oxford Summer School July 2018**

* Linked Data for Digital Humanities strand.

**Certified Software and Data Carpentries Instructor May 2018**

Work experience

**Krannert Center for Performing Arts Spring 2018**

***Graduate Practicum* under Elizabeth Wickes, MSLIS, and Maureen Reagan, Associate Director for Marketing**

This is an ongoing project meant to spearhead a multi-year initiative. The goal of this project is to work within the historical database records, curating, augmenting, and cleaning data, and ultimately reformatting their data content.

* Worked alongside the center’s Associate Director of Marketing with their recently overhauled Performance Archives Database and their Historical Database Records.
* Drafted, carried out, and analyzed informational interviews conducted with several members of center staff to identify how current databases are used. Additionally, the interviews were used to learn about and investigate the company’s current workflows.
* Worked within Excel to curate and clean data across several database inventories. Began to learn to use OpenRefine as a means of cross-referencing entries and investigating potential discrepancies within the data.

**Spurlock museum Fall 2018 - Spring 2018**

***Publications Volunteer* under Jennifer White, Registrar**

* Assisted in preserving museum history by finding and documenting publications relating to the museum.
* Organized said publications based on type, following museum protocol.
* Catalogued documents and created metadata and finding aids for the publications within the museum’s online database, allowing them to be searched for easily and for their movements to be tracked.

**University of Illinois at Urbana Champaign Music and Performing Arts Library Fall 2017- Present**

***Graduate Assistant* under Kirstin Dougan, MSLIS, and Kate Lambaria, MSLIS**

* Manned the reference desk by answering questions as dictated by patrons. Also assisted patrons with research by utilizing ready reference texts as well as available academic databases.
* Created and maintained LibGuides for Krannert Center for the Performing Arts’ 2017-2018 season, requiring research into individual events, various people, and the history surrounding performances.
* Developed the library’s collection of plays by researching recently produced scripts, award winning plays, and playwrights local to the Midwest and then subsequently purchased found materials through appropriate vendors. Created a list to be referenced each year for purchasing.
* Provided maintenance for the institution’s iPads. This included reprogramming and resetting them after use and writing departmental instructions on the creation of iPad blueprints as well as iPad care.
* Wrote, developed, and implemented a survey asking users for feedback regarding the library’s changes in available loanable technology.

**Hockessin Public Library 2017**

***Circulation Assistant* under Lauren Smiley**

**University of Rochester International Theatre Program Fall 2014 - Spring 2016**

***Assistant Props Master* under Mary Reiser**

* Researched the production’s period in history, location, and social classes of characters. Determined appropriate props, as proposed by director and Props Master. Purchased props by researching vendors and negotiating prices.
* Maintained props database by assisting Props Master in photographing props and documenting detailed descriptions. Entered information into a shared database resulting in an organized inventory and reducing prop costs.2

Presentations

Burns, H. (August 2018). “Using ARK Identifiers in a Linked Open Data Context.” Talk presented at Oxford e-Research Centre culminating summer research.

Burns, H., Burrows, T., Downie, S. J., Lewis, D., Page, K., Velios, A. “Assessing the practicality of ARK identifier usage in a catalogue of medieval manuscripts.” Poster presented October 31, 2018 at iSchool Research Showcase.

Burns, H., Burrows, T., Downie, S. J., Lewis, D., Page, K., Velios, A. “Assessing the practicality of ARK identifier usage in a catalogue of medieval manuscripts.” Poster to be presented at iConference in April 2019.