

# James Tuttle

fumiko@braggtown.com

Blacksburg, VA

## EDUCATION

### Master of Science in Library and Information Science

University of Illinois at Urbana-Champaign

### Bachelor of Arts in Anthropology

University of Illinois at Urbana-Champaign

## EXPERIENCE

### Virginia Tech University Libraries

Blacksburg, VA

*Associate Director for Digital Libraries*

July 2018 – present

- Lead development, deployment, and maintenance of digital library services and underlying infrastructure
- Oversee all aspects of digital library project management
- Provide managerial leadership for software engineers, system engineers, and web developers
- Consult and provide technology planning and implementation support for faculty and research projects
- Product Owner, stakeholder engagement, application architecture, and service development for digital collections infrastructure

### Triangle Research Libraries Network

Chapel Hill, NC

*Senior Applications Analyst*

March 2018 – July 2018

- Special projects developer working on a variety of technologies supporting consortia members including PHP, Python, Java, Amazon Web Services, CORAL ERM, and others

### Duke University Libraries

Durham, NC

*Digital Repository Architect*

June 2016 – March 2018

- Provide vision, coordination, and strategic direction for the technical environment in support of Duke University Libraries digital repository environment
- Develop policy and procedure supporting Duke's repository services
- Document technical integration requirements with external systems such as Symplectic Elements, VIVO, Aleph, ArchivesSpace, and others
- Serve as technical lead and as-needed developer supporting several ancillary systems including Symplectic Elements and DSpace

### Duke University Libraries

Durham, NC

*Head, Digital Repository Services*

June 2013 – June 2016

- Plan, lead, and manage the design and implementation of Duke Digital Repository, Duke Protected Data Repository for sensitive and protected information, and other related systems
- Collect user stories and use cases, draft functional requirements, and manage several related project backlogs to inform development priorities and program direction
- Work with stakeholders, including faculty, students, and librarians to prepare, describe, and ingest digital materials
- Develop scripts to support ingest and migration of content and metadata and tools to support systems integration

### Duke University Libraries

Durham, NC

*Repository Developer*

May 2010 – June 2013

- Act as Duke's technical lead on shared repository project between Duke, UNC, and NC State

## **North Carolina State University Libraries**

Raleigh, NC

*Geospatial Data Librarian & Libraries Fellow; Digital Repository Librarian*

Jan 2005 – April 2010

- Coordinate North Carolina Geospatial Data Archiving Project in collaboration with Library of Congress under National Digital Information Infrastructure Preservation Program
- Automate curatorial and archival data processing
- Develop workflows and supporting tools to support archive ingest processes

## **PUBLICATIONS**

Tuttle, J., Chen, Y., Jiang, T., Hunter, L., Waldren, A., Ghosh, S., Ingram, W.A. "Multi-tenancy Cloud Access and Preservation". *Proceedings of the ACM/IEEE Joint Conference on Digital Libraries*. 2020.

Morris, S., Tuttle, J., Farrell, R. "Preservation of State and Local Government Digital Geospatial Data: The North Carolina Geospatial Data Archiving Project". *Archiving 2006 Conference Proceedings*. Society for Imaging Science and Technology. 2006.

## **PRESENTATIONS**

Chen Y, Kinnaman A, Tuttle J. (2020) "A Cloud-based Serverless Microservices Application for Digital Preservation", *DigiPres 2020*, Virtual, Nov. 12, 2020.

Chen, Y., Ingram, W. A., Tuttle, J. (2019) "A Multi-Tenancy Cloud-Native Digital Library Platform", *Open Repositories 2019. Hamburg, Germany*. Jun. 11, 2019.

Tuttle, J., Coble, J., Chandek-Stark, D. (2016) "Migrating a Hydra-Based Preservation Repository from Fedora 3 to Fedora 4", *Open Repositories 2016*. Dublin, Ireland. Jun. 16, 2016.

Annual DuraSpace Member Summit, Washington, DC. 2015

Hydra User Experience Unconference Session, Hydra Connect, Fall 2014

Lake, S., Mitchell, C., Gonder, J., Tuttle, J., et. al. (2013) "Services for Research Data and Open Access: Strategies and Toolkits Being Implemented at Virginia Tech, the University of California, and Duke University", Digital Library Federation, Austin, TX. Nov. 5, 2013.

Tuttle, J., Zwicky, D., Morris, S. (2010) "ETD Workflows: Repository-Agnostic, Vendor-Neutral Submission Software", Texas Digital Library Conference System, ETD 2010, Austin, TX. May 1, 2010.

Jackson Sanborn, J., Tuttle, J. (2007). "Digital Repository Projects at the North Carolina State University Libraries", *Open Repositories 2007*. San Antonio, TX. Jan. 23, 2007.

Tuttle, J. (2007). "Tools Development and Demonstration: North Carolina Geospatial Data Archiving Project", *NDIIPP Digital Preservation Partnership Meeting*. San Diego, CA. Jan. 18, 2007.

Tuttle, J. (2006). "NDIIPP Preservation Network: Progress, Problems, and Promise", *Joint Conference on Digital Libraries 2006*. Chapel Hill, NC. Jun. 13, 2006.

Tuttle, J. (2006). "Workflow: Tools and Resources", *Digital Preservation in State Government: Best Practices Exchange 2006*. Wilmington, NC. Mar. 27, 2006.

Tuttle, J., et al. (2005). "Preserving Digital Resources: Complexities and Emerging Solutions", *Digital Library Federation Fall Forum 2005*. Charlottesville, VA. Nov. 7, 2005.