



Peter Broadwell

Head of AI Modeling & Inference, Research Data Services Admin

 Curriculum Vitae available Online

Bio

BIO

As the manager and technical lead of AI Modeling & Inference in Research Data Services, Peter Broadwell works collaboratively with faculty, students and library colleagues to apply emerging AI/ML technologies to diverse cultural datasets, building and deploying novel tools for knowledge exploration and organization. Recent efforts in which he has participated have involved automatic translation and indexing of folklore collections in multiple languages, deep learning-based analyses of theater choreography from video sources, and web-based parsing and playback of digitized player piano rolls.

CURRENT ROLE AT STANFORD

Manager, AI Modeling & Inference, Research Data Services, Stanford University Libraries

HONORS AND AWARDS

- Jöran Sahlgren Prize, Kungl. Gustav Adolfs Akademien för Svensk Folkkultur (2022)
- Best Conference Paper, Joint Council on Digital Libraries (2016)
- Mellon Dissertation Fellowship in the Humanities in Original Sources, Council on Library and Information Resources (2007-2008)

EDUCATION AND CERTIFICATIONS

- Ph.D., University of California, Los Angeles , Musicology (2010)
- M.A., University of California, Los Angeles , Musicology (2006)
- M.S., University of California, Berkeley , Computer Science (2004)
- B.A., Grinnell College , Computer Science (2001)

Publications

PUBLICATIONS

- **Disentangling the Folklore Hairball A Network Approach to the Characterization of a Large Folktale Corpus** *FABULA*
Abello, J., Broadwell, P. M. M., Tangherlini, T. R. R., Zhang, H.
2023; 64 (1-2): 64-91
- **Comparing Themes Extracted via Topic Modeling and Manual Content Analysis: Korean-Language Discussions of Dementia on Twitter.** *Studies in health technology and informatics*
Lee, H., Jang, S. J., Sun, F. F., Broadwell, P., Yoon, S.
2022; 295: 230-233
- **Comparative K-Pop Choreography Analysis through Deep-Learning Pose Estimation across a Large Video Corpus** *DIGITAL HUMANITIES QUARTERLY*

Broadwell, P., Tangherlini, T. R.
2021; 15 (1)

- **Bridges, Sex Slaves, Tweets, and Guns A Multi-Domain Model of Conspiracy Theory** *FOLKLORE AND SOCIAL MEDIA*
Tangherlini, T. R., Roychowdhury, V., Broadwell, P. M.
edited by Peck, A., Blank, T. J.
2020: 39-66
- **Comparing published scientific journal articles to their pre-print versions** *INTERNATIONAL JOURNAL ON DIGITAL LIBRARIES*
Klein, M., Broadwell, P., Farb, S. E., Grappone, T.
2019; 20 (4): 335-350
- **Reading the Quan Tang shi: Literary History, Topic Modeling, Divergence Measures** *DIGITAL HUMANITIES QUARTERLY*
Broadwell, P., Chen, J. W., Shepard, D.
2019; 13 (4)
- **SoLoGlo - A Service to Archive, Analyze, and Link Social, Local, and Global News**
Klein, M., Broadwell, P., Grappone, T., Farb, S., Soc Imaging Sci & Technol
SOC IMAGING SCIENCE & TECHNOLOGY.2015: 27-29
- **Semi-Supervised Morphosyntactic Classification of Old Icelandic** *PLOS ONE*
Urban, K., Tangherlini, T. R., Vijunas, A., Broadwell, P. M.
2014; 9 (7): e102366
- **A searchable meta-graph can connect even troublesome house elves and other supernatural beings to scholarly folk categories.** *COMMUNICATIONS OF THE ACM*
Abello, J., Broadwell, P., Tangherlini, T. R.
2012; 55 (7): 60-70