



## Peter Broadwell

Digital Scholarship Research Developer, Center for Interdisciplinary Digital Research

### Bio

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#### BIO

Peter Broadwell is a Digital Scholarship Research Developer at the Center for Interdisciplinary Digital Research. His work applies machine learning, web-based visualization, and other methods of digital analysis to complex cultural data. Recent studies in which he has participated have involved automatic translation and indexing of folklore collections in multiple languages, deep learning-based analysis of dance choreography from video sources, and multimedia annotation of Japanese Noh theater performances.

#### CURRENT ROLE AT STANFORD

Digital Scholarship Research Developer, Center for Interdisciplinary Digital Research, 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

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#### PUBLICATIONS

- **Disentangling the Folklore Hairball A Network Approach to the Characterization of a Large Folktale Corpus** *FABULA*  
Abello, J., Broadwell, P. M., Tangherlini, T. 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., 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