Digital Publishing and Preservation

Jasmine Mulliken, Digital Production Associate
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STANFORD UNIVERSITY PRESS

@stanfordpress | #supDigital | supDigital.org

THE ANDREW W. MELLON FOUNDATION

LPF 2021
Virtual/Online

Program Purpose

To provide a formal, peer-reviewed, publication process for interactive digital scholarship. This process will include development consultation, editing, copyright, DOI, and ISBN registration, archiving, and marketing and promotion.

.supDigital

http://supdigital.org

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Digital Web-Based Scholarly Monographs

- Multimodal
- No print corollary
- No pdf export
- Content inextricable from form
- Argument embedded in interaction

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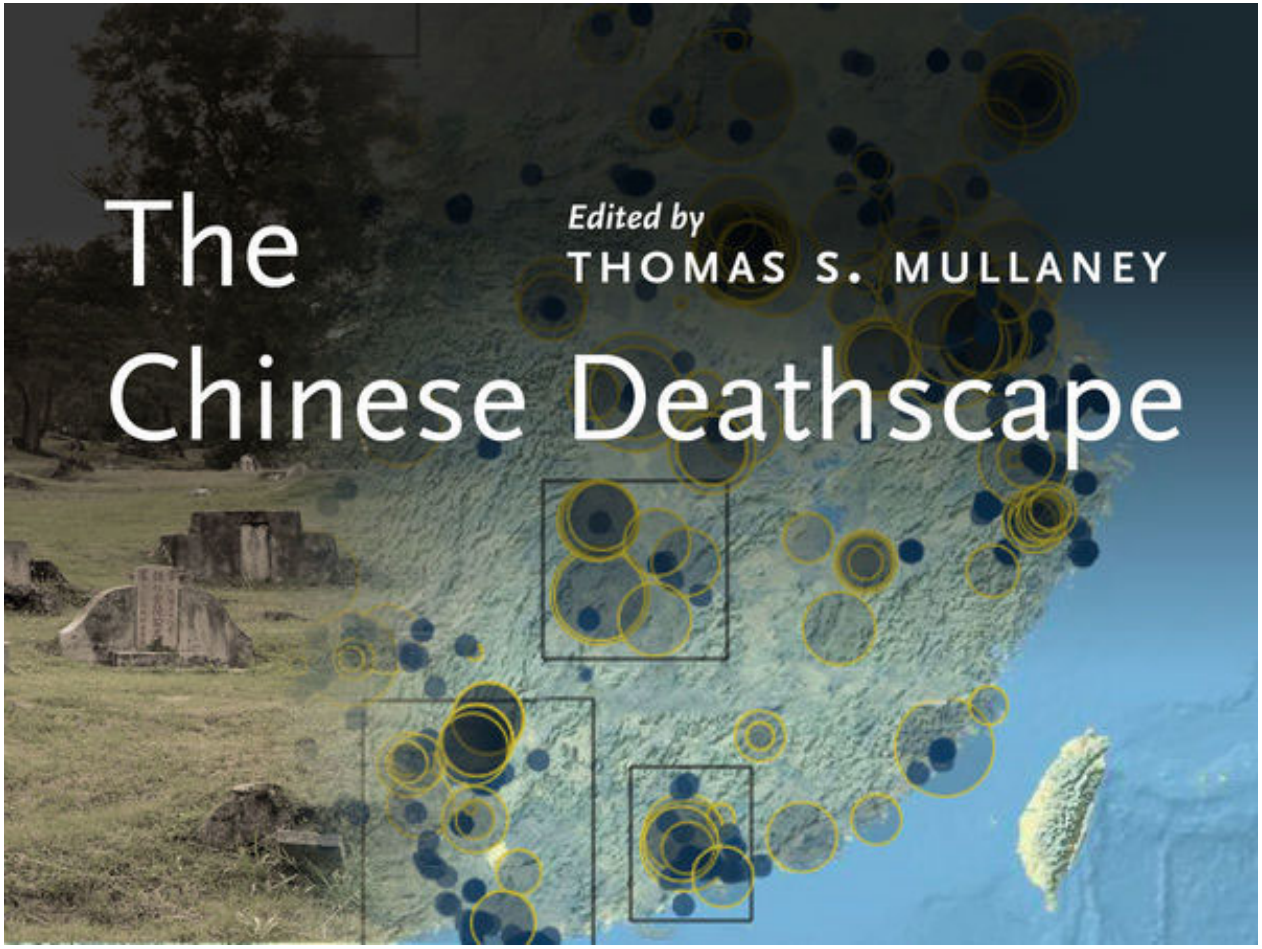
Alisa Lebow, *Filming Revolution,* 2018



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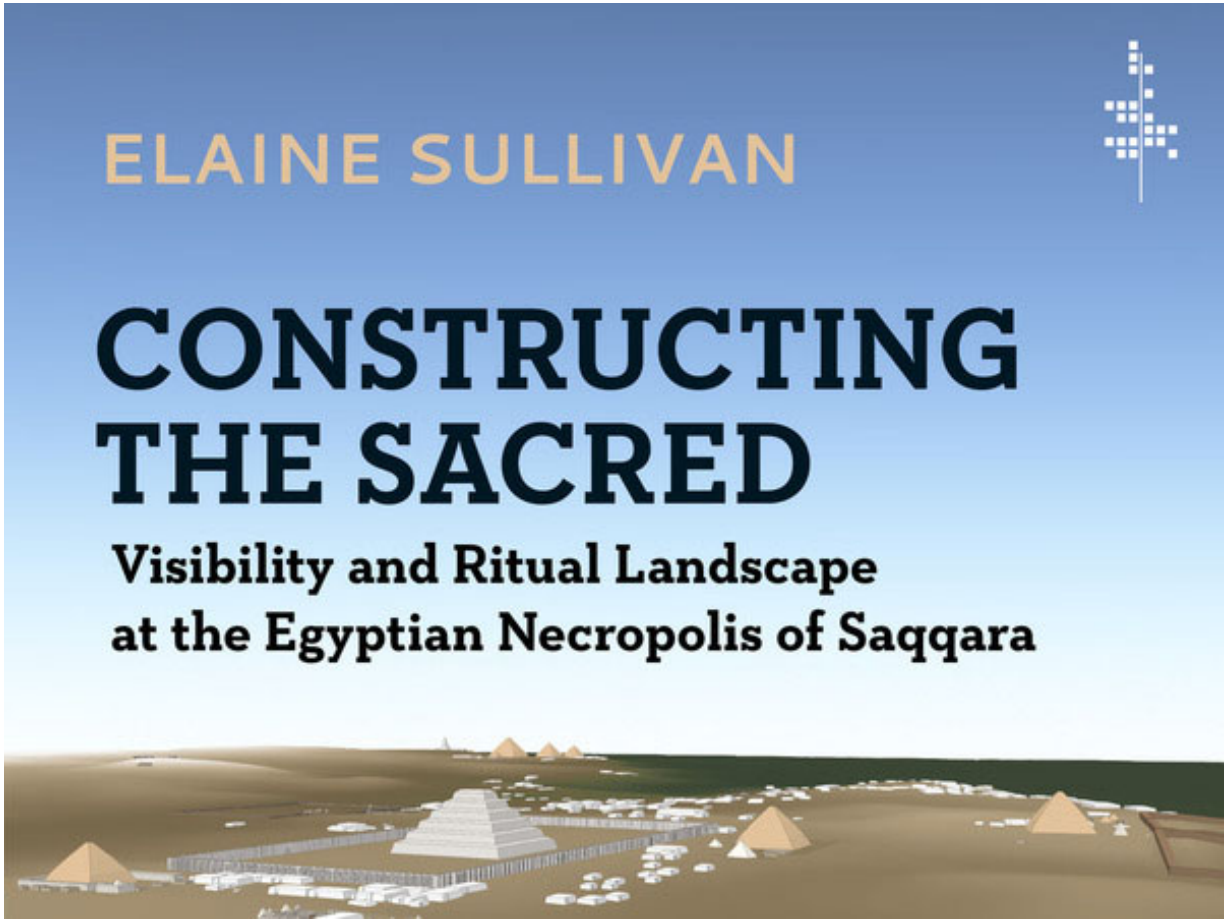
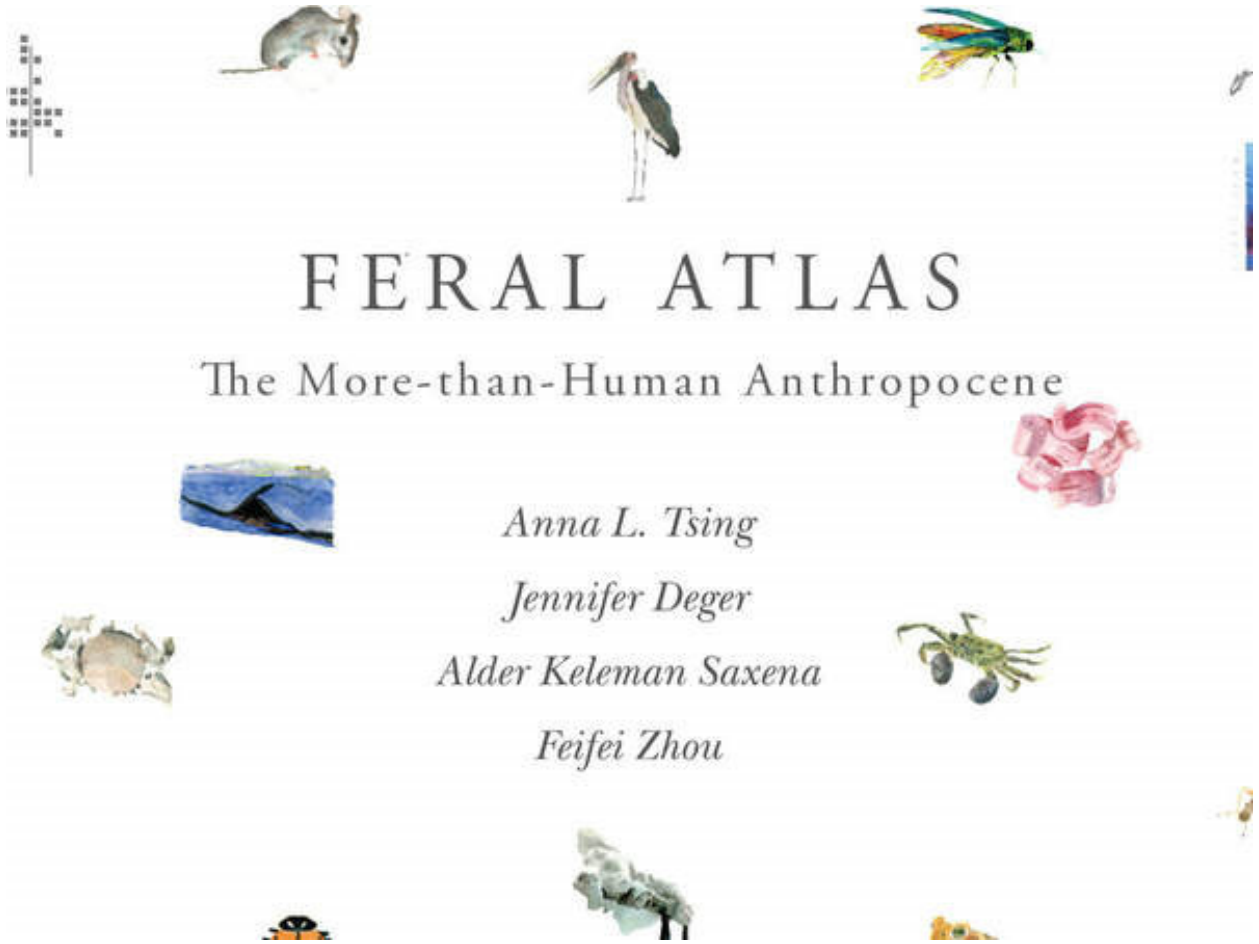
Tom Mullaney, *Chinese Deathscape,* 2019



Elaine Sullivan, *Constructing the Sacred,* 2020



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Anna Tsing et al, *Feral Atlas,* 2021

Characteristic Features

- Multimodal
- No print corollary
- No pdf export
- Content inextricable from form
- Argument embedded in interaction

POLL!

THUS

- Dependent on server and browser technologies
- Resistant to traditional archiving

Web standards and dependencies, public domain image via Pixabay.

Challenges

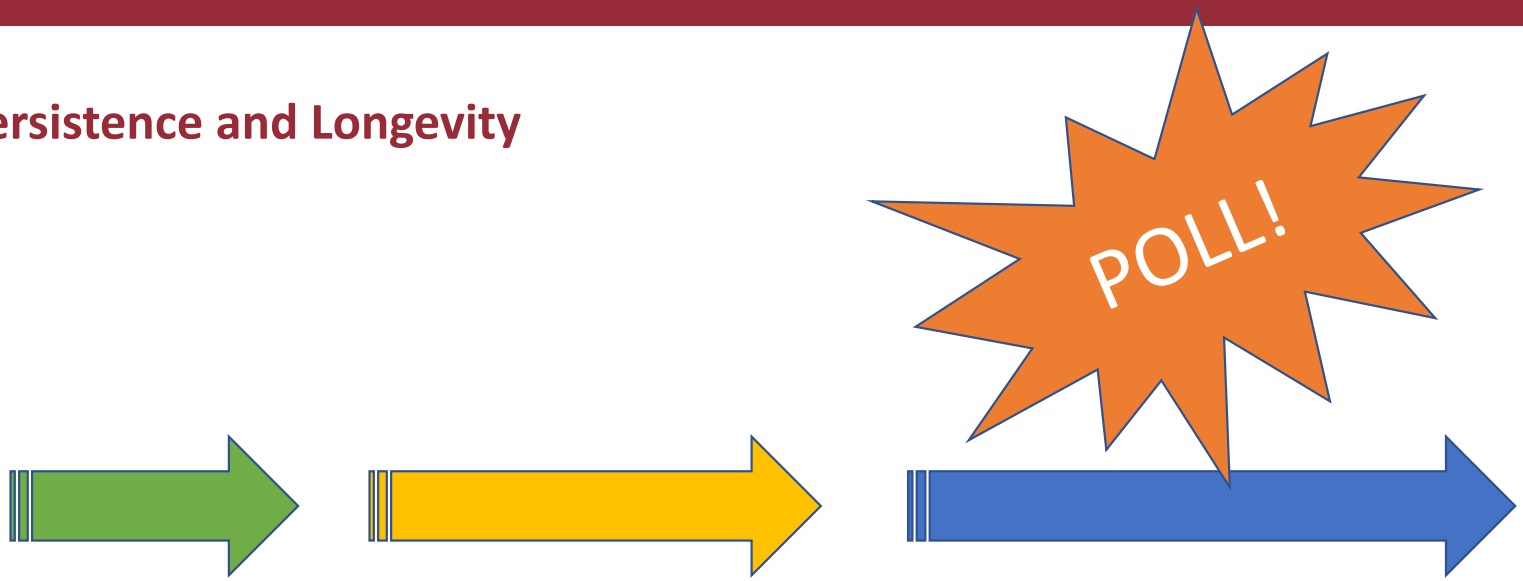
Production & Design

- Balance innovation with sustainability/preservability
- Develop editorial workflows
- Adapt existing models to new forms

Persistence and Preservation

- Preserve the interactive experience as part of the argument
- Preserve the underlying code for future researchers who specifically value the code and materiality
- Adapt and overlap existing solutions

Persistence and Longevity



Pre-Publication
(Guidelines)
2-4 years

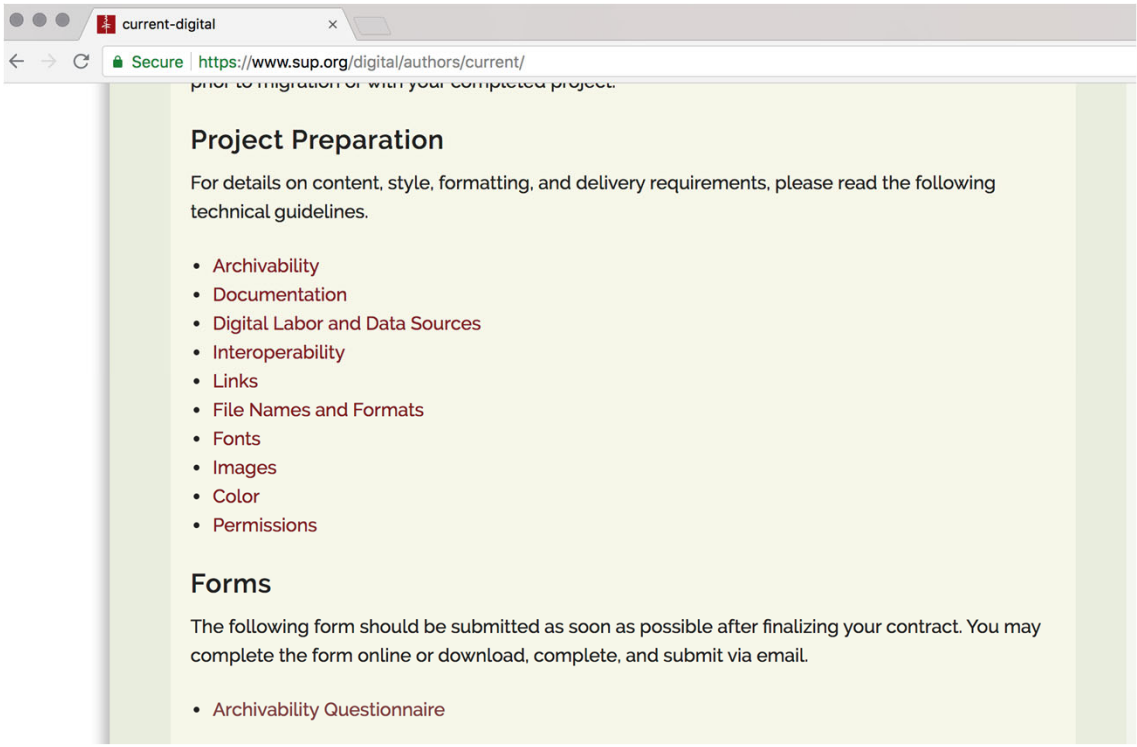
Publication (Hosting)
3-5 years

Post-Publication
(Hi-fi, Longterm Preservation)
5-10? 20? 50? 100?

Pre-Publication

Guidelines

- refines range of possibilities
- mitigates obsolescence
- anticipates archiving and preservation
- requires updating/adapting for new technologies and standards

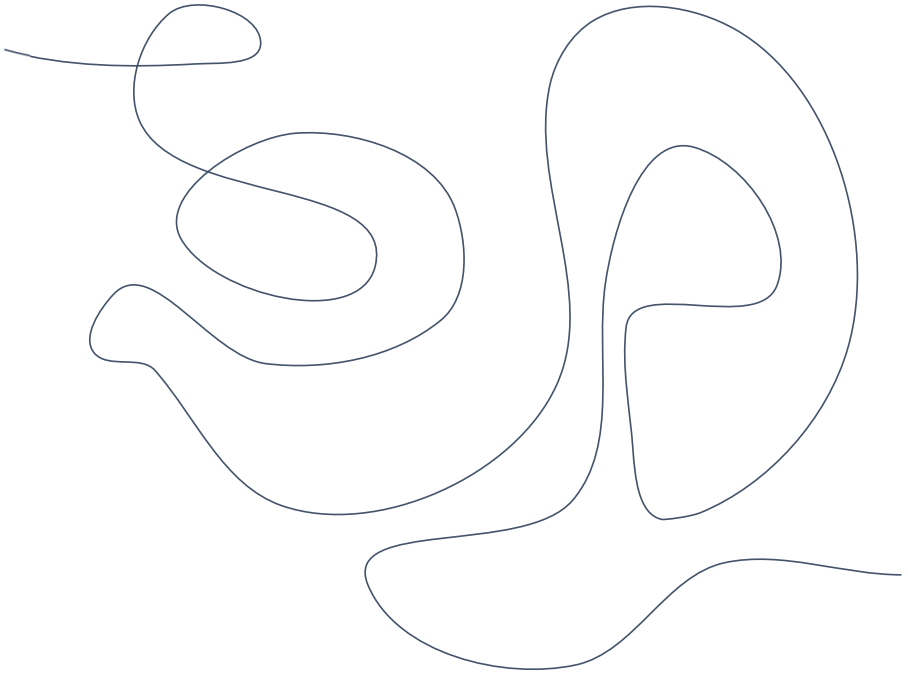


supDigital.org » Current Authors

Publication

Hosting

AUTHORS' DEVELOPMENT SERVERS



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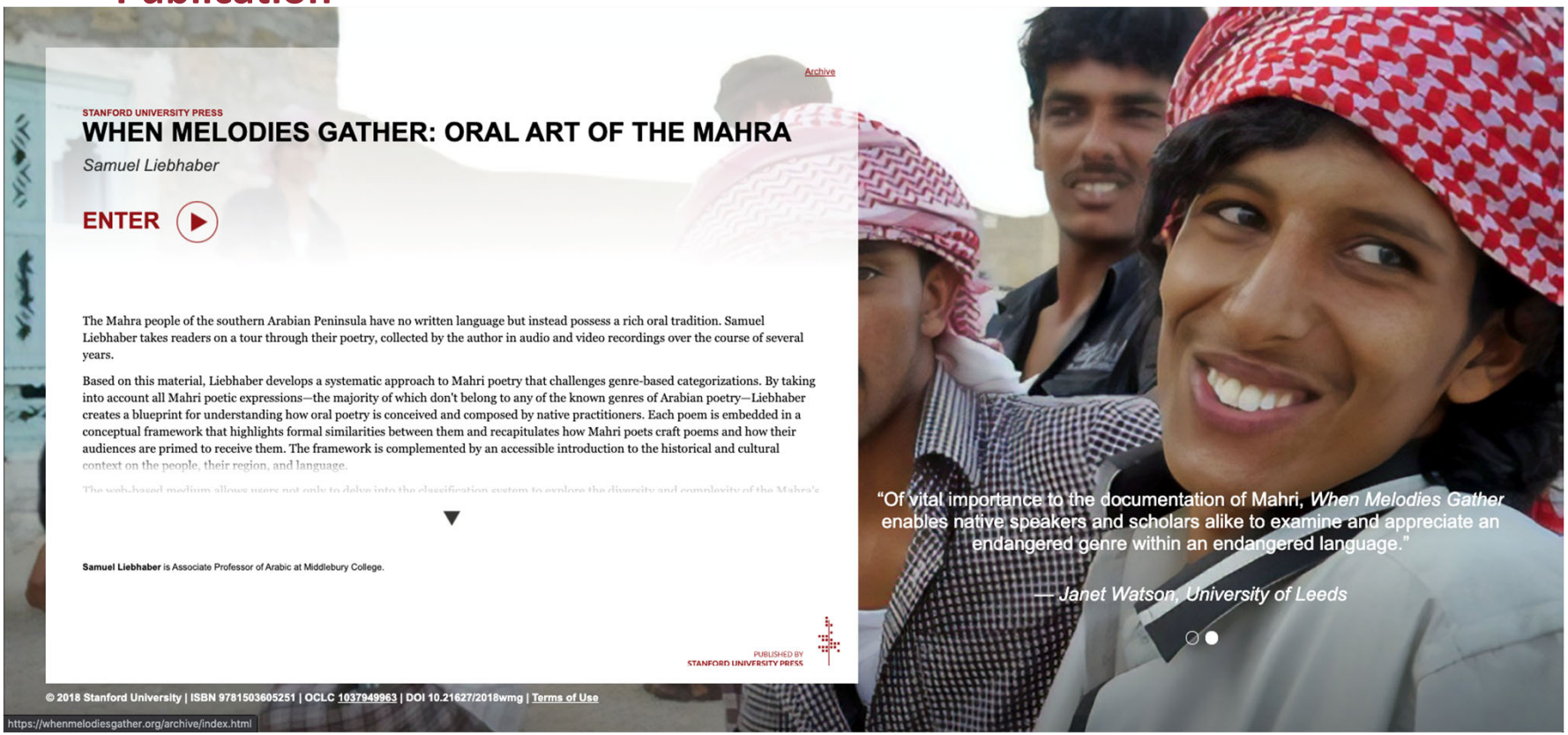
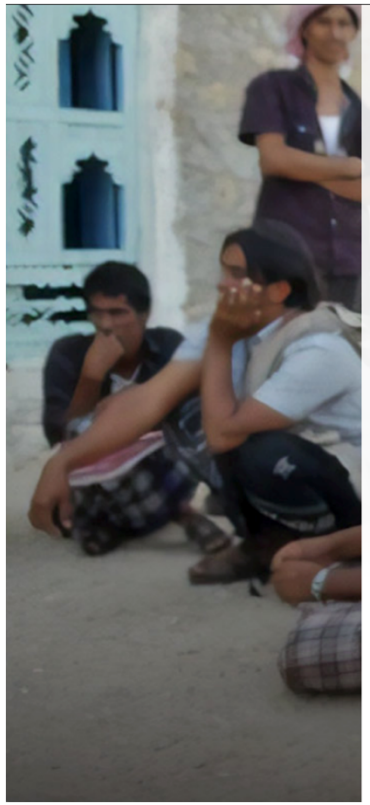
Publication



Publication



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WHEN MELODIES GATHER: ORAL ART OF THE MAHRA

Samuel Liebhaber

ARCHIVE

The following archival versions of *When Melodies Gather* represent descriptive, remediated, and/or restructured publication content. When browser and server technologies advance beyond the ability to support the original publication code, these resources provide alternative ways of engaging with the publication.

Web Archive

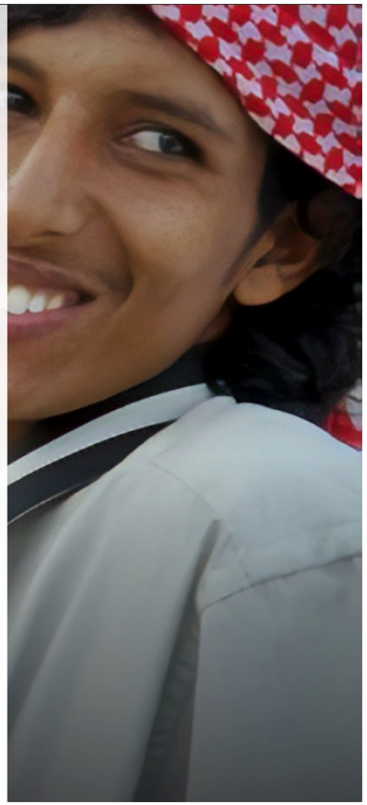
The **web archive** presents a high-fidelity, interactive experience much like the experience of reading the live web publication. The original source code is not visible in the web archive version, so users wanting to inspect the source via a browser's web developer tools should be aware that they are viewing a remediated content package and neither the orginal web structure nor the content and application code.

Stanford Digital Repository

The **Stanford Digital Repository** collection contains the project's media files and the Scalar platform's RDF-JSON export file, a single file including the project's textual content and structural relationships. Also included in the collection are the project's documentation, screencast, web archive, and custom code files used for the cover and the modified internal Scalar styles. In raw form the files in this collection (see full contents list) are not interactive and are rarely human-readable. Please consult the documentation for a description of the original interactive user experience.

Documentation

The **documentation** serves as a descriptive account of the original publication's user experience, technical requirements, structure, and sources. It includes a screencast narrated and recorded by the author and is best used as a record of the project's look, feel, and functionality in the event the live project and its high-fidelity preservation copies are no longer accessible.



Post-Publication

Software
Preservation
Network

Scaling Emulation as a Service Infrastructure (EaaSI)

Web Archiving ***Emulation*** ***Stanford Digital Repository***

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Web Archiving

- Retains perceived fidelity, interactive features
- Changes backend (WARC but with right setup potentially easier to initiate and maintain than repository collection or emulation)
- Carries its own maintenance considerations
- Webrecorder: https://webrecorder.net/
- CLOCKSS already using web archiving in its workflow

Ex: https://archive.supdigital.org/filming-revolution.html» Web Archive

Stanford Digital Repository

- Stanford Digital Repository
- Non-interactive (w/ exception of WARC)
- Disaggregated
- Exhaustive, persistent
- Requires lots of metadata and documentation
- Potentially reconstructable in future or emulated environments
- Includes and depends on documentation

Emulation

- Retains fidelity, interactive features
- Recreates the software stack necessary to serve the content
- Carries significant maintenance considerations
- Could draw from software and content housed in Stanford Digital Repository or other participating hosts within EAASI network.
- EASSI Project: http://www.softwarepreservationnetwork.org/eaasi/

Challenges

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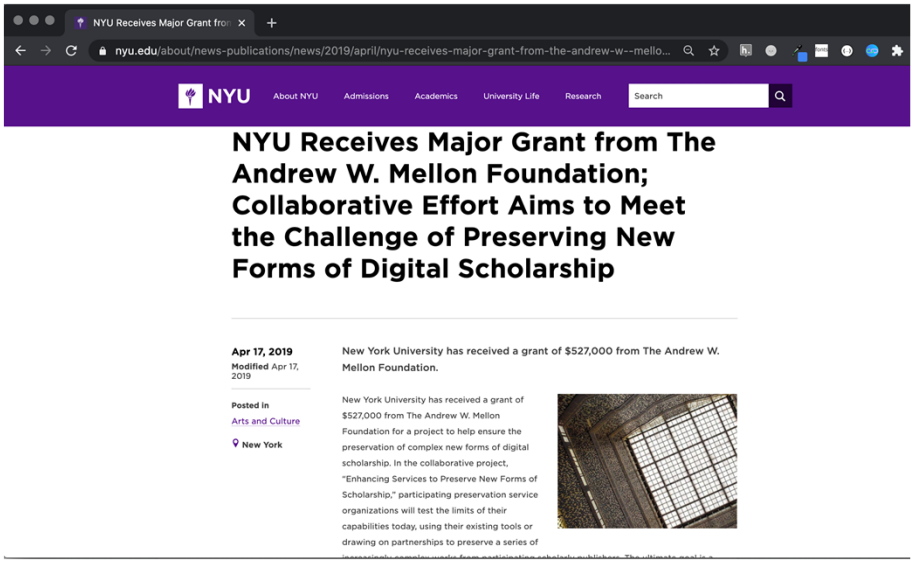
Enhancing Services to Preserve New Forms of Scholarship

Presses

- NYU Press
- Michigan Publishing
- University of Minnesota Press
- Stanford University Press
- Vega Academic Publishing at Wayne State University
- University of British Columbia Press



Preservation Partners

- CLOCKSS
- Portico

"to help ensure the preservation of complex new forms of digital scholarship…participating preservation service organizations will test the limits of their capabilities today, using their existing tools or drawing on partnerships to preserve a series of increasingly complex works from participating scholarly publishers."

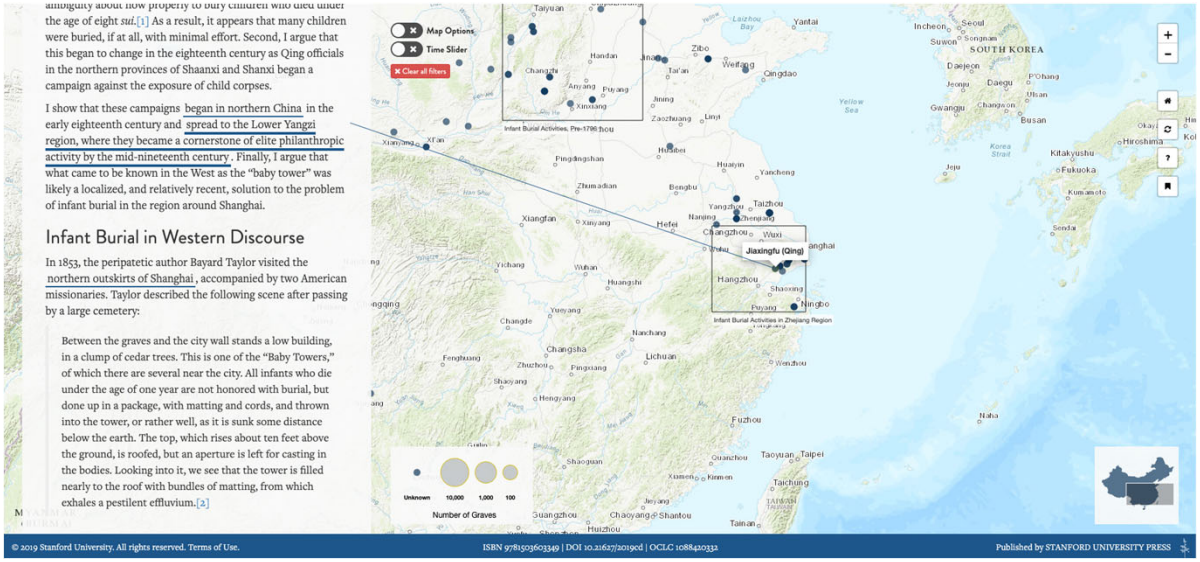
Enhancing Services to Preserve New Forms of Scholarship

Solutions Tested

- Web Archiving (CLOCKSS, Portico)
- Emulation (Portico)

Challenges

- **External data**
- Javascript
- Data security
- API Dependencies
- Gaps in tools



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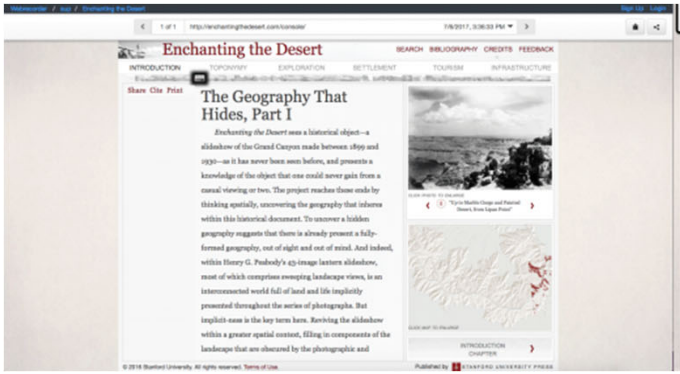

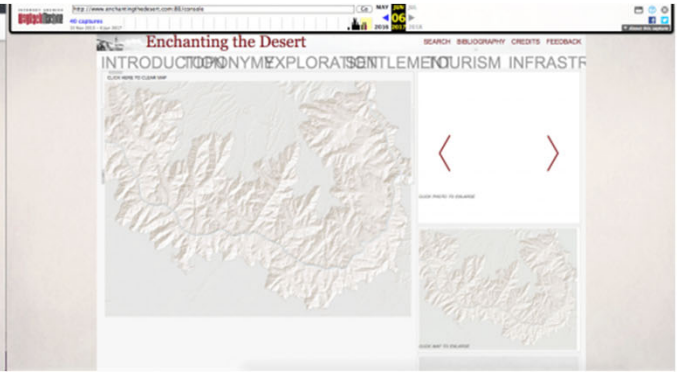

Challenges

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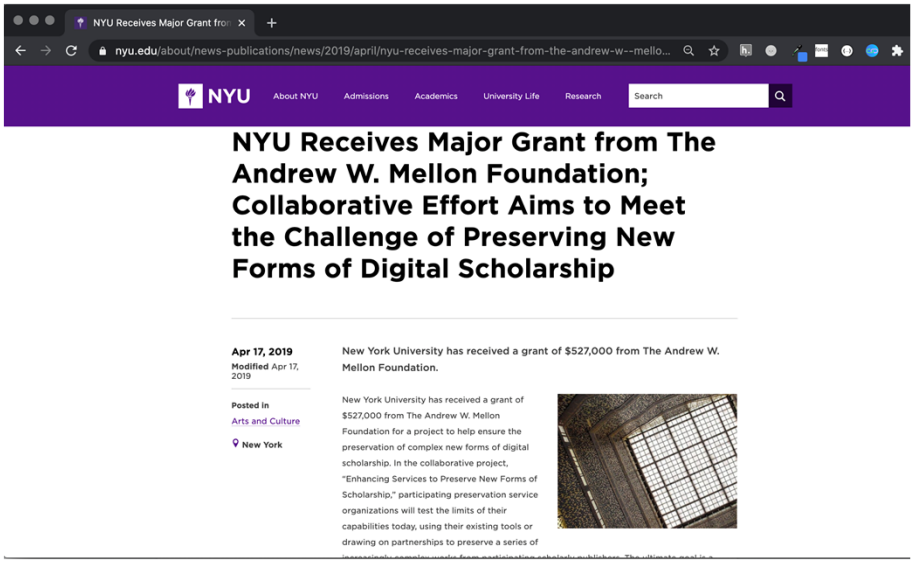

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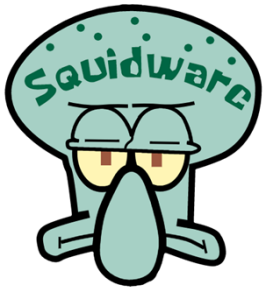
"The ultimate goal is a clearly defined range of currently preservable technologies, as well as a set of guidelines and best practices for the publishing field."



Software Preservation Network

INTERNET ARCHIVE WayBackMachine

Publisher

HERITRIX