The Institute for Digital Arts & Humanities

Vanessa Elias
IDAH Program/Project Manager

Pouyan Shahidi
IDAH Senior Digital Methods Specialist
WHY Digital Arts & Humanities? #WHYDAH
Digital A & H
Research Pipeline

- Digital Project and Pedagogy Consultations
  go.iu.edu/dahconsult
- DAH Certificate and Minor
  go.iu.edu/dahcert
- HASTAC scholarships
  go.iu.edu/hastac
- Summer Incubator
  go.iu.edu/incubate
- Workshops and lectures
- Graduate fellowships
Digitally-inflected research & teaching

**Digital Research**
- Faster answers to old questions (stylistics, author attribution & linguistics)
  - Managing large volume
  - Managing large geographic scope
- Asking new questions
  - Integrating multi-disciplinary approaches from complementary research areas such as cultural studies
  - Interrogating not just texts but intertextuality, paratexts and the processes required for such an analysis
  - Bypassing human confirmation bias (the "what we already know" conundrum)
  - Filling in the gaps or the evidentiary holes

**Digital Pedagogy**
- Using “digital” to support student engagement by
  - Embedding unfamiliar information in familiar environments (maps)
  - Breaking a familiar environment into smaller, less familiar pieces (text mining)
  - Breaking an unfamiliar environment into smaller, more approachable pieces (networks)
- Introducing students to digital tools to support digital literacy outside the classroom
<table>
<thead>
<tr>
<th>METHODS MATRIX</th>
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<tbody>
<tr>
<td>DATA MINING</td>
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<tr>
<td>I know there are linguistic, sound, or visual patterns here, but I can’t identify them</td>
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<tr>
<td>DIGITAL PERFORMANCE</td>
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<td>I want to explore artistic production in mixed-media digital and analog form</td>
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<tr>
<td>DIGITAL RECOVERY</td>
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<td>I need to make artifacts visible and public for interactive analysis</td>
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[go.iu.edu/DAHmatrix](http://go.iu.edu/DAHmatrix)
Mapping (GIS)
How can I map it?

- Google Maps: mymaps.google.com
- ArcGIS: arcgis.com/
- Carto: carto.com
- Clio: theclio.com
Activity: Create a map on Google My Maps

- Use a shared map and add:
  - Where you are from, city of origin
  - Where you research is focused, country
  - Draw a line between your place of origin and your research
Network Analysis
Network Analysis

vocabulary

Node: A thing
An individual, a group of people, an institution) connected through relationships

Edge: a relationship
A verb describing the connection between the nodes you are considering

Ego: your focus
The node you’re interested in, and the connections they have
Network Analysis: Example Project

Dr. Kate Mullen
The Power of the Popular

- Uses the Manchester Digital Music Archive (MDMA), a community driven music archive, to explore the archive’s structure and how its users engage with the site.

- Interested in who its users are and how much content they were contributing to the archive.
Activity: Create a network on Net.Create

• Get the link in chat for a shared network:
• Thumbs up when you’ve got the network open.
• Follow along with us as we add nodes and edges:
  • Your name
  • An interest (i.e., research interest or hobby)
  • A connection between you and your interest
Text Analysis
Dr. Kane Ferguson

- Examines the origins of Cuban cuisine as they have been memorialized in writings of Cuban exiles.
- Tracing the presence of ingredients in recipes of arroz con pollo (rice with chicken)
- **Goal**: Document the history and evolution of Cuban recipes.
Voyant Tools is a web-based reading and analysis environment for digital texts.
1590 Love's Labour's Lost

LOVE'S LABOUR'S LOST
DRAMATIS PERSONAE
FERDINAND king of Navarre.
BIRON |
LONGAVILLE lords attending on the King.
DUMAIN |
BOYET |
lords attending on the Princess of France.
MERCIADE |
DON |
ADRIANO DE ARMADO a fantastical Spaniard.
SIR NATHANIEL, a curate.
HOLOFERNES a schoolmaster.
DULL a constable.
COSTARD a clown.
MOTH page to Armado.
A Forester.

This corpus has 37 documents with 895,737 total words and 25,114 unique word forms. Created about a year ago.

Document Length:
- Longest: 1590 Hamlet (32,960); 1593 King Richard II (31,948); 1600 Coriolanus (29,993); 1610 Cymbeline (24,794); 1597 King Henry IV (Part. 1) (23,324)
- Shortest: 1591 Comedy of Errors (16,638); 1594 Midsummer Night's (11,732); 1611 Tempest (13,562); 1605 Macbeth (10,920):

Vocabulary Density:
- Highest: 1611 Timon of Athens (130); 1600 Much Ado about Nothing (117); 1599 Midsummer Night's (137)
- Lowest: 1593 King Richard III (150); 1599 All's Well That Ends Well (131); 1604 Othello (135); 1599 Merry Wives of Windsor (136); 1599 King Henry V (Part. 1) (137)

Average Words Per Sentence:
- Highest: 1597 King Richard IV (21.6); 1596 King John (28.4); 1599 King Henry V (23.1); 1613 King Henry VII (19.4); 1592 Thys Andronicus (19.1)

Items:
Activity: Using Voyant as a text analysis tool

• Play along at home. Voyant-tools.org for analysis of
  • Custom corpora
  • Voyant built-in corpora

• Play with it!
  • Analyze multiple letters, one at a time, all together, whatever you want. We have a pre-built collection to work with: drive.google.com/drive/folders/1mnGoeCEZsnKJcqiedrwyEW6vSzESxn24?usp=sharing

• Have a different text in mind? Plain-text files work best.
Structuring and Organizing Your Data

• File storage should be considered and deliberate
• Folder hierarchies
• Standard naming conventions
• Computer-readable vs human-readable vs both?
  • Spreadsheets vs comma-separated text (.csv)! Word doc vs plain-text (.txt)
• Data chunking
• Concatenating with Excel
Data Sustainability

• File types
  • Non-proprietary: png, jpeg, txt, csv, xml
  • Proprietary with open specifications: pdf, tiff, mpeg
  • Proprietary: xlsx, docx

• Backups
  • Save copies and old versions of everything
  • Local, external, and cloud storage
  • Long term: institutional data management
A few examples of other digital arts and humanities projects
Dr. Jazma Sutton
Digital Recovery
• HASTAC: Mapping the escape of two self-liberated (Susan & Margaret Wilkerson) on the Midwestern frontier
• Dissertation: Documenting the histories and memories of the descendants of Longtown
Dr. Justin Bailey
Digital Fabrication

- Used AutoCAD software to create endless 3D models that can be used to fabricate volumetric designs
- **Goal:** To streamline the design of the objects with its physical production
- **Goal:** Allow for open access of the 3D models so that other artists can manipulate them
• Examined archival folktales “The House of the Blue Lights” through participatory storytelling and re-tellings
• Interdisciplinary research approach – archival, analytic, and artistic
• Goal: Creation of an interactive digital folktale
To see more sample projects please visit: tiny.cc/IDAHHfaq
Digital A & H Minor & Certificate

- **PhD Minor**: Minimum of 13 credits
- **Certificate**: Minimum of 19 credits
- [go.iu.edu/dahcert](http://go.iu.edu/dahcert)

**Digital creative activities** (including fine arts, music composition, lighting, set and costume design, and dance)

**Digital humanities scholarship and research dissemination** (including database design, topic modeling and other algorithmic forms of textual analysis, TEI markup, heritage simulation and curation, museology, digital poetics)

**Critical studies in the digital arts and humanities** (including critical code studies, software studies, media studies, game studies, and studies in the relation of the digital to identitarian categories including gender, disability, ethnicity, race, etc.)
Research and Pedagogy Consultations with IDAH Staff

• Talk with the IDAH staff directly
• We work with folx at any point in their research
  • Just starting a project? We want to help you!
• We help plan research trajectories
  • First steps
  • Grant Funding
  • Digital Publications
• We help with digital pedagogy interventions

Sign up for a consultation: go.iu.edu/DAHconsult
IDAH HASTAC Scholarship

- The Humanities, Arts, Science, and Technology Advanced Collaboratory (HASTAC) Scholars program is a student-driven community of graduate and undergraduate students who are working at the intersection of technology and the arts, humanities and sciences. Their work centers on rethinking pedagogy, learning, and research for the digital age.

- Application deadline: Spring 2023
- go.iu.edu/hastac
IDAH Summer incubator

• IDAH Summer Incubator helps graduate develop digitally-inflected research questions from ideas to a prototype in 5 days while also acquiring digital methods awareness, project planning expertise and cross-campus networking opportunities.

• Application deadline: Spring 2023
• go.iu.edu/incubate
IDAH Faculty Fellowship Program

• The objective of this program is to help Indiana University faculty members complete an interdisciplinary arts and/or humanities scholarly investigation or creative activity with a significant digital component in pursuit of tenure and/or promotion.

• A year of support for project management, technical support, and financial (research funds or a semester course release)

• Applications for 2022–2023 will open in early spring 2022. (idah.indiana.edu/project-support/fellowship)
Digital Methods Skill-Building (Fall 2022+)

**Speaker Series**
- GIS Day: Mapping related activities
- More details to come
- November 2022

**Why Digital A & H?**
- Fall Workshops:
  - Research methods workshop
  - Digital Pedagogy Workshop

**IDAH Online Resources**
- Asynch workshop series: Research Methods; Digital Pedagogy; Research and Creative Activity
- Digital Methods Tutorials
- Digital Pedagogy Templates
  
go.iu.edu/DAHres

**Digital Scholarship Series**
- Wednesdays at 12 pm via Zoom
- Learn about digital projects: research, technology & trends happening on campus
FALL 2022 WORKSHOPS

THE INSTITUTE FOR
DIGITAL ARTS & HUMANITIES

- Digital Methods in Arts & Humanities Research
  August 26 | 2:00–3:30 pm
  Online

- Digital Pedagogy for Arts & Humanities Teaching
  September 9 | 2:00–3:30 pm
  Wells Library, Hazelbaker Hall E159

- IDAH Graduate Student Orientation
  September 16 | 3:00–4:00 pm
  Wells Library, Hazelbaker Hall E159
  Free food!

Full details and registration at events.iu.edu/idah
idah.indiana.edu

Email List
Events
Schedule Consultations
and more!

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DIGITAL ARTS & HUMANITIES