# 10th Annual Nebraska Forum on Digital Humanities

### April 4-5, 2024 | Pioneer Suite, Willa Cather Dining Complex

**From Exclusion to Inclusion: Creating Responsible and Equitable Information and AI Systems for Digital Cultural Heritage**

What would it take to develop machine learning for the tasks of managing cultural heritage materials—ranging from texts to images to videos to data—while generating radically new methods for re-comprehending research materials, allowing radically novel questions to be asked, embracing and foregrounding multiplicity of cultural and knowledge systems, addressing racism and bias in the collection, description, conceptualization and use of these materials, and building capacity for critical understanding of these technological and social systems at all levels?

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**Invited Speakers:**

- **Dr. Abeba Birhane**, Mozilla Senior Fellow in Trustworthy AI, Mozilla Foundation & Trinity College, Dublin, Ireland
- **Jonathan O. Cain**, Associate University Librarian for Research and Learning, Columbia University
- **Dr. Michelle Caswell**, Professor, Department of Information Studies, University of California Los Angeles
- **Dr. Ben Lee**, Assistant Professor, Information School, University of Washington
- **Dr. Yi Liu**, Postdoctoral Researcher, School of Computing, University of Nebraska-Lincoln
- **Dr. Chulwoo (Mike) Pack**, Assistant Professor, Electrical Engineering and Computer Science, South Dakota State University
- **Thomas Padilla**, Deputy Director, Archiving and Data Services at the Internet Archive, Internet Archive
- **Rosamond Thalken**, PhD Candidate, Information Science, Cornell University

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**Sponsors:** UNL Office of Research and Economic Development, Center for Digital Research in the Humanities

**Co-Sponsors:** School of Computing, School of Global Integrative Studies, Department of Mathematics

| **Thursday, April 4 Morning**<br>**Pioneer Suite, Willa Cather Dining Complex** |
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**8:00 - 8:30 am:** Arrivals, Coffee, and Pastries

**8:30 - 9:00 am:** Opening Remarks

- **Sherri Jones**, Interim Director, Office of Research and Economic Development | **Elizabeth Lorang**, Dean, College of University Libraries | **Kenneth M. Price**, Co-Director, Center for Digital Research in the Humanities

**9:00 - 10:30 am:** **Session 1: AI in Cultural Heritage Collections**

- **Thomas Padilla** *Realizing Affirmative AI*
- **Ben Lee** *Computing Cultural Heritage: Toward Search and Discovery at Scale*

**10:30 - 11:00 am:** Break

**11:00 am - 12:30 pm:** **Session 2: Voices, Biases, and Scale in AI**

- **Abeba Birhane** *Larger isn't Better*
- **Michelle Caswell** *What Can Community Archives Teach Us About AI?*

**12:30 - 1:30 pm:** Lunch

### Thursday, April 4 Afternoon
### Pioneer Suite, Willa Cather Dining Complex

**1:30 - 3:00 pm: Session 3: Considerations of Culture in AI**

- **Yi Liu** *Machine Learning, Artificial Intelligence, and Cultural Heritage*
- **Rosamond Thalken** *Crafting Cultural Models: The Vital Role of Domain Expertise in Language Modeling*

**3:00 - 3:30 pm:** Break

**3:30 - 5:00 pm: Session 4: AI and Deep Learning, Opportunities and Challenges**

- **Chulwoo (Mike) Pack** *Computer Vision, Deep Learning, and Reasoning in Document Understanding*
- **Jonathan O. Cain** *Continuing a "Long Conversation": Opportunities and Challenges with A.I. in Academic Libraries*

**5:00 - 5:15 pm:** Closing Remarks

### Thursday, April 4 Evening
### Great Hall, Sheldon Museum of Art

**5:30 – 7:00 pm: Reception** with beverages and hors d'oeuvres

### Friday, April 5 Morning
### Pioneer Suite, Willa Cather Dining Complex

**8:30 – 9:00 am:** Arrivals, Coffee, and Pastries

**9:00 - 9:30 am:** Opening Remarks

- **Mark Button**, Dean, College of Arts & Sciences | **Witawas Srisa-An**, Director, School of Computing | **Andrew Jewell**, Co-Director, Center for Digital Research in the Humanities

**9:30 - 11 am: PLENARY SESSION**

**11:00 - 11:30 am:** Closing Remarks

Forum Registration:
**https://go.unl.edu/dhforum2024_register**

Forum Details:
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