



# Interdisciplinary Data Humanities Initiative

Outreach for Non-Traditional Disciplines in ITS

Presented by  
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# Agenda

Research Computing Center  
High Performance  
Computing  
Data Humanities  
Purpose

# Our Research Computing Center

- A unit of the FSU Information Technology Services department
- Originally a division of Scientific Computing back before 2013
- The team that hosts and administers the main supercomputing resource at FSU: the High Performance Computing system (HPC)



# What is High Performance Computing?

## Specialized Hardware

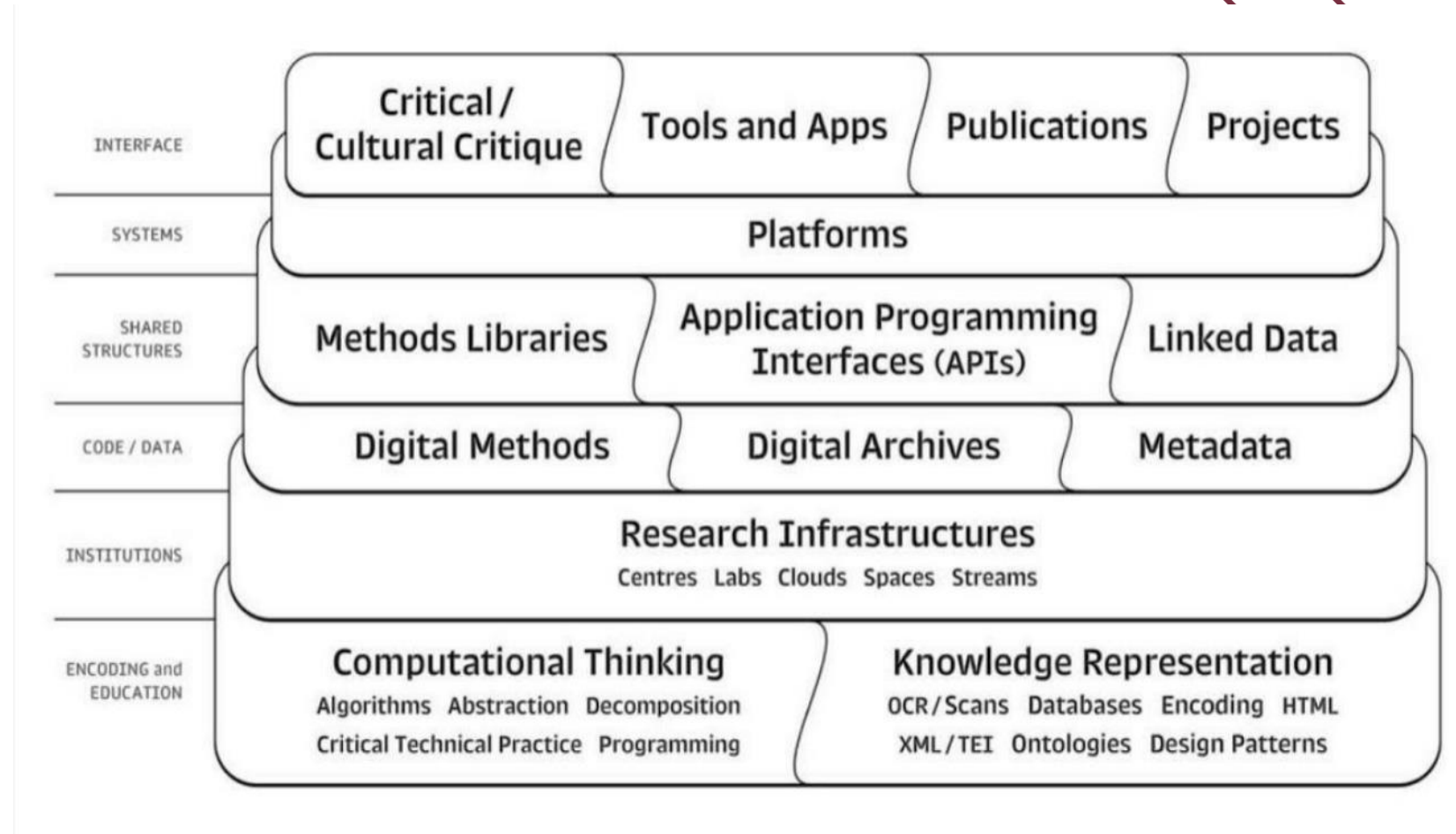
- Contains more processors than the average home computer
- Has several generations of both AMD and Intel Processors
- Can house custom machines (via a research grant) with specialized hardware like special CPUs, DSPs, SSDs, GPUs and otherwise.

## Offload Your Work

- Takes pressure off your regularly used desktop, laptop or other devices
- Scales computational processes not possible on home machines
  - parallel processes
- Runs tasks that need to be repeated many times over a long period of time

# What is Data Humanities

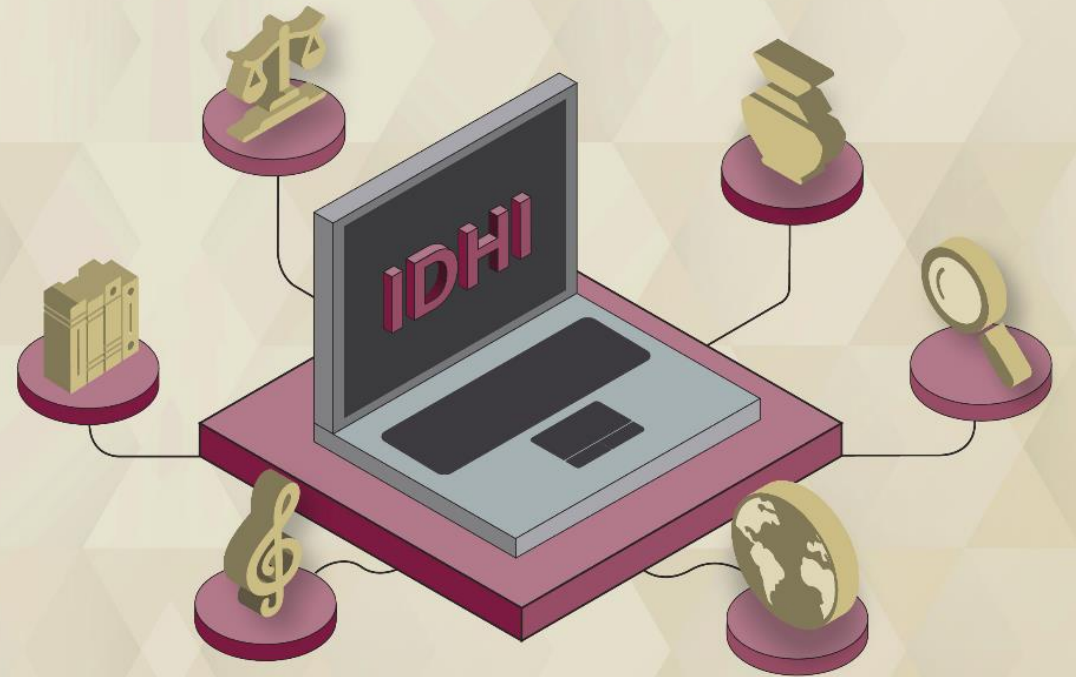
- The application of digital methods to Humanities research
- Studying the impact of the digital world on Humanities disciplines



# HPC Support for Data Humanities

- Prevalence of Big Data
- Digital Collections
- Machine Learning and AI
- File size Limitations
- Classroom Tech

# INTERDISCIPLINARY DATA HUMANITIES INITIATIVE



## Purpose of IDHI

The goal of IDHI is to foster and encourage the presence of humanities, social sciences, and arts (HSSA) research within our HPC systems

FSU needs an architecture that ensures the success and continuation of new HSSA projects outside of curriculum changes.

## Our Structure

### Specialized Software

Installing and maintaining software designed specifically for Digital Humanities

### Research Support

Counseling large projects that are hosted on our system and serve as models for future work

### Teaching Resources

Providing workshops and in-class services that help integrate the use of new tools into the institution's curriculum

## Specialized Software

Curated selection of tools that will benefit the largest amount of students, faculty, & staff.

Here we leverage tools that are already on our systems and install tools that will extend their humanities use cases.

Data Organization	OpenRefine Protege MySQL Workbench LibreOffice Base
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Data Manipulation	R Studio Jupyter Notebook Ollama Tesseract Agisoft Metashape
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Data Curation	ExistDB TEI Publisher Srophe VMs
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The image shows three logos on a white background. At the top left is the 'existdb' logo in blue and black. To its right is a stylized arrow icon with three horizontal lines. Below these is the 'OpenRefine' logo, which includes a blue diamond icon and the text 'OpenRefine' in black.

## Research Support

### Philosophy

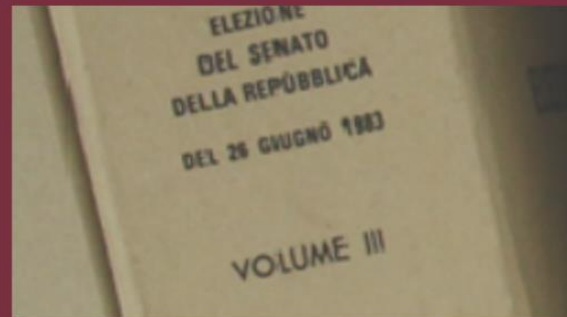
Textual Collections of  
Johannes Tetens

*Dr. Courtney Fugate*



Political Science  
Study of  
Italian elections

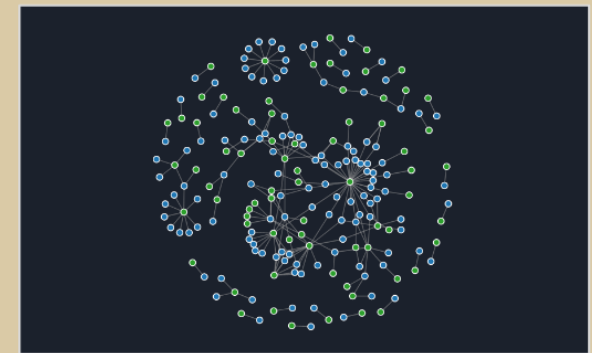
*Giulia Venturini*



### English

Linked Women Pedagogues  
as a Data Discovery Tool

*Dr. Tarez Graban*

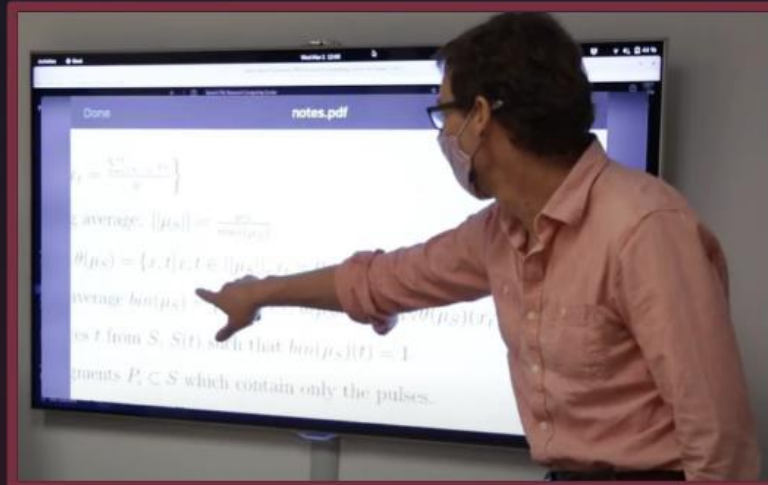


# Teaching Resources

## Traditional Workshops

- Intro to HPC
- Intro to Linux
- Intro to R
- Intro to SLURM
- Python Bootcamp

## Instruction Types



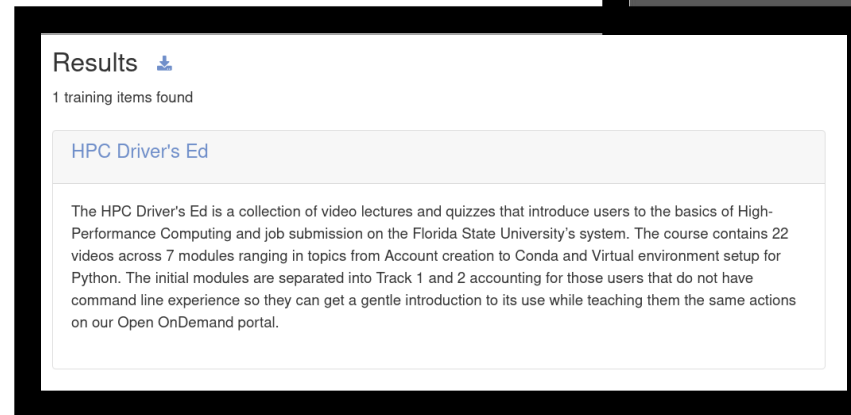
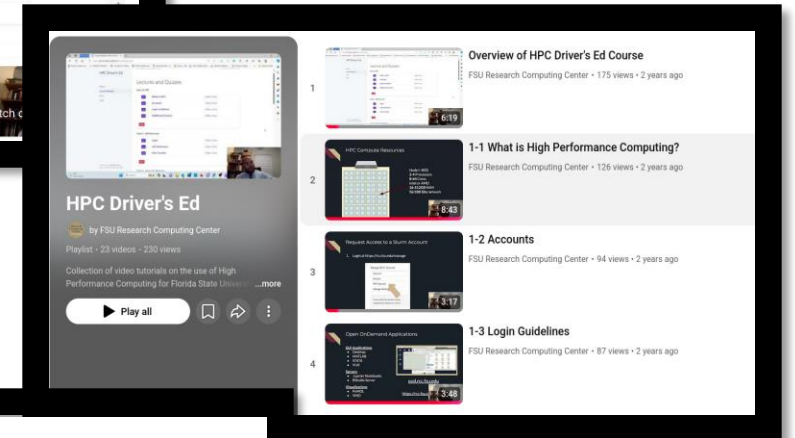
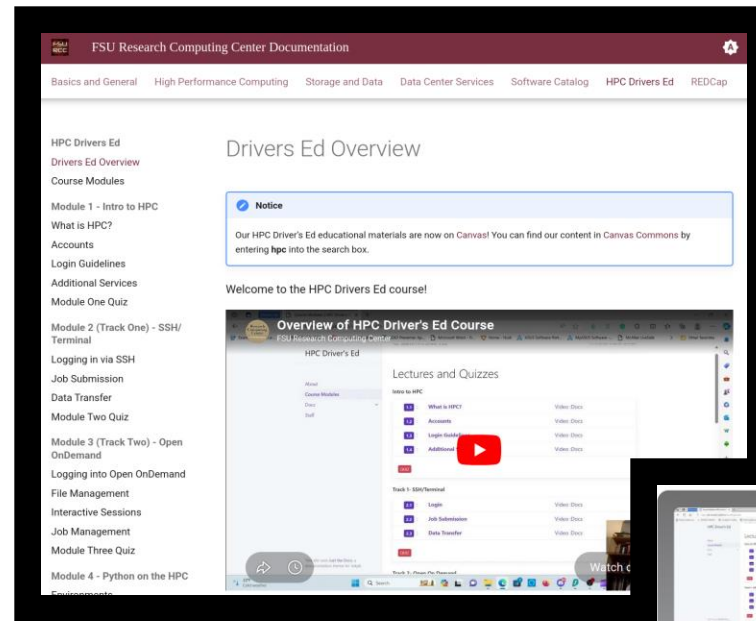
## HSSA Workshops

- Intro to OpenRefine
- Parallel R for Music
- Local LLMs for Sociology

Most traditional workshops can be modified for HSSA workshops

# HPC Drivers Ed

- Canvas & Youtube hosted tutorials for beginners and intermediate users of High-Performance computing, designed for all domains.
- Designed with the assistance of the Office of Distance Learning.
- Registered in the national repository for HPC education ( HPC-ED)



# Current Progress of IDHI

Fall 2022- Spring 2026

42  
Workshops

In-class,  
RCC-hosted,  
and seminars  
**350+  
Participants**

2  
Funded  
Projects

2 long-term  
software  
consultations  
with  
departments of  
Philosophy &  
Musicology

10  
Departments

History, English,  
Criminology,  
Political  
Science,  
Classics,  
Modern  
Languages,  
Economics,  
Music,  
Sociology,  
Philosophy

5  
Publications

1 PEARC paper,  
2 presentations  
DH,  
2 academic  
conferences

6  
New Tools

OpenRefine,  
OCR-Tesseract,  
Existdb, Spyder,  
Ollama, and  
Metashape

## Long Term Goals

- Continue producing 10-13 domain specific workshops every year
- Formalize collaboration with Libraries' Digital Scholarship Office.
- Renew or add to our long-term funded software consultations.
- Create a repository with our created materials for instructor use across campus.



**Questions?**