Welcome!

CMPSC 104 – Document Engineering

Prof. Hang Zhao

ALLEGHENY COLLEGE

Agenda for today

- Introductions: Getting to know me
- Course overview and expectations
- Class Survey: Getting to know you

The basics

- Instructor: Hang Zhao
- Office: Alden Hall 105
- Email: hzhao@allegheny.edu
- Office hours:
  - **M/F** 11:00am-12:00pm, 2:25pm-3:25pm **Location**: Alden Hall 105
  - **Tue** 12:00pm-1:00pm. **Location**: Google Meet
  - **W** 11:00am-12:00pm. **Location**: Alden Hall 105

  By appointment at
  - In person: https://calendar.app.google/FbwXmgPGg5XaeYkH7
  - Virtual: https://calendar.app.google/VcnX1gKJNnB2uCbs6

A little about me

Visiting Assistant Professor

- Dep of Business and Economics; Dep of Computer Science

Education:

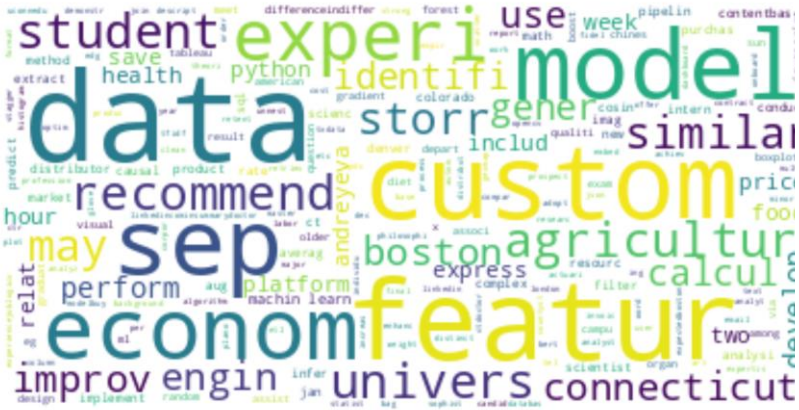
- **University of Connecticut**
- Doctor of Philosophy, Agricultural and Resource Economics
- **Boston University**
- Master of Science in Actuarial Science
- **University of Colorado**
- Bachelor of Arts, Major in Economics, Minor in Mathematics

Research Interests:

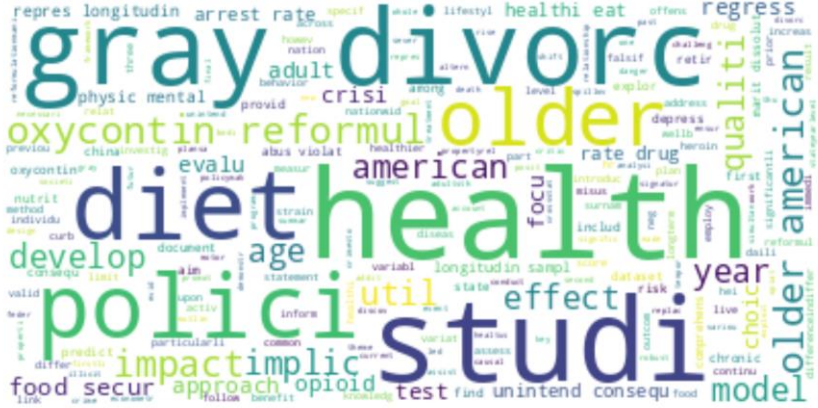
- Drug policies, the well-being of older adults, nutrition and health outcomes

WORDCLOUD

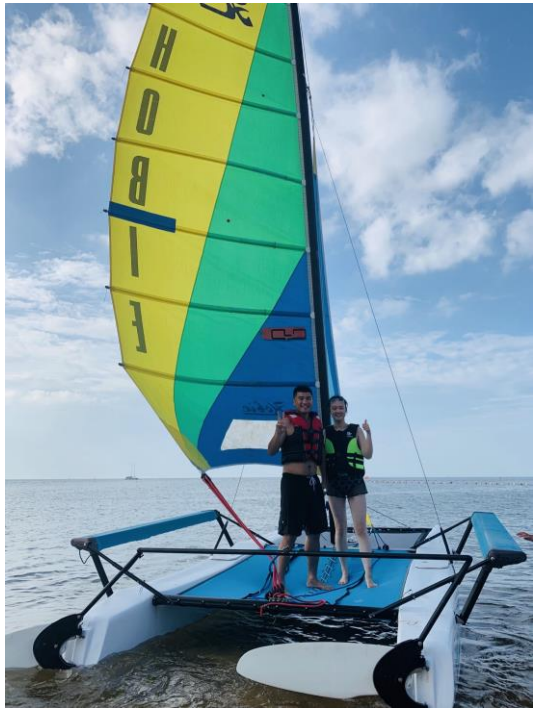
Resume

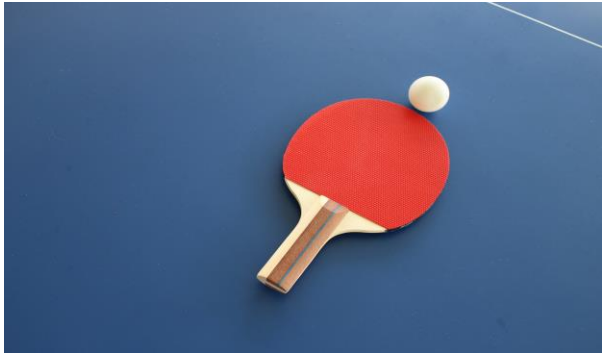


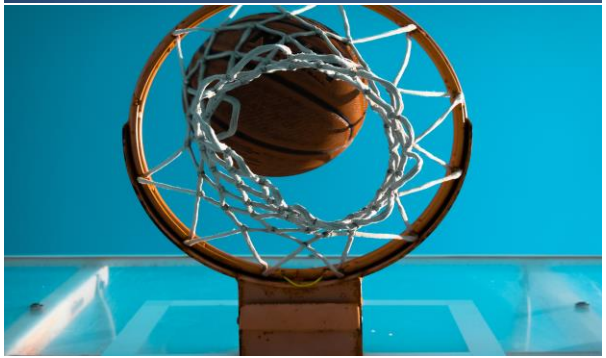
Research Statement



A little about me







Course overview and expectations

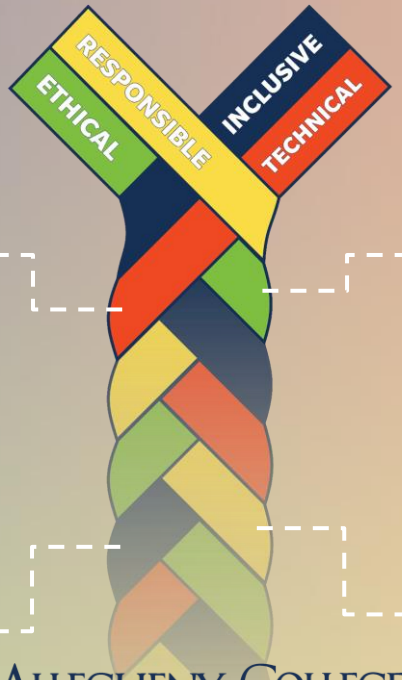
OUR SHARED VALUES

WE ARE TECHNICAL

We aim to achieve competence and excellence in technical knowledge, its applications, and effects.

WE ARE INCLUSIVE

We provide an inclusive community environment which invites and celebrates diversity of experience, thought, and belief.



ALLEGHENY COLLEGE

DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE

WE ARE ETHICAL

We make decisions rooted in the principles of equity and justice, focusing on the greater good of our communities.

WE ARE RESPONSIBLE

We honor commitments and take responsibility for our actions and outcomes.

Why we learn Doc Engineering

- Essential Skills for Modern Development, such as Git, GitHub, VSCode.
- Effective Communication through Documentation, such as Technical Writing, Markdown.
- Web development, such as HTML, JAMstack

Course objectives

- **Objective 1:** Describe and explain processes such as software installation or design for a variety of technical and non-technical audiences ranging from inexperienced to expert.
- **Objective 2:** Use professional-grade integrated development environments (IDEs), command-line tools, and version control systems to compose, edit, and deploy well-structured, web-ready documents and industry-standard documentation tools.
- **Objective 3:** Build automated publishing pipelines to format, check, and ensure both the uniformity and quality of digital documents.
- **Objective 4:** Identify and apply appropriate conventions of a variety of technical communities, tools, and computer languages to produce industry-consistent diagrams, summaries, and descriptions of technical topics or processes.

Class structure

- Class Lectures.
- Lab Assignments.

classDocs/

- First stop for all materials
- Syllabus
- Lecture slides, posted before each class

Assessment

- Class Participation (10%)
- Mid-term Exam (15%)
- Ten Lab Assignments (5% each)
- Final Project (25%)

- Course grades will approximately fall into the following ranges: A (96%), A- (90%), B+ (87%), B (83%), B- (80%), C+ (77%), C (73%), C- (70%), D+ (67%), D (63%), F(60%).

Assessment: Class Participation (10%)

- CIS Department Policy.

Assessment: Mid-term Exam (15%)

- One mid-term exam.
- Tentative Schedule: 10/16/2024, Wednesday

Assessment: Lab Assignments (50%)

Tentative deadlines for each **Lab Assignment** are as follows:

Lab Assignment	Topic	Due Date
1	Intro to Git	9/6/2024
2	Intro to GitHub	9/13/2024
3	Intro to VSCode	9/20/2024
4	Technical Writing	9/27/2024
5	Markdown	10/13/2024
6	Wiki	10/18/2024
7	reStructuredText and Sphinx	10/25/2024
8	JAMstack	11/8/2024
9	HTML-Responsive Web Design	11/22/2024
10	Metadata	12/6/2024

Assessment: Final Project (25%)

- The final project will be tentative opened on 12/6 and close on 12/12.

How to do well

- Attend lectures
- Practice
- Come to office hours
- Study with your peers ("teach" each other to test your understanding)
- Technical Leaders:
  - Caleb, M 1:15 – 2:15pm
  - Miles, W 1:15 – 2:15pm

Diversity, equity, and inclusion

- It is my intent that students from all diverse backgrounds and perspectives be well served by this course
- Student's learning needs be addressed both in and out of class
- Diversity that you bring will be viewed as a resource, a strength, and a benefit.
- It is my intent to present materials that are respectful of diversity: gender, sexuality, disability, ethnicity, race, age, socioeconomic status, religion, culture
- Your suggestions are welcome!

CIS Department Policies: Attendance + Tokens

Preparedness

1. Students arrive at class with a fully charged laptop; you should also bring your laptop charger
2. Pre-session work is complete, including readings and preparatory assignment

Attendance and being “on time”

CIS Department Policies: Attendance + Tokens

Course Level	Number of Tokens
100	4
200	3
300	2
400	2

Class Survey: Who are you?

1. Name, preferred name?
2. Do you have a GitHub account? If so, what is your GitHub username?
3. Which program are you enrolled in?
4. What are your plans after graduation (e.g., continue your studies, work in a specific field, etc.)?
5. What is your major(s) and minor (if applicable)?
6. Have you taken any previous courses related to document processing, web development, or programming? If yes, please describe briefly.
7. Do you have any experience with markup languages (e.g., Markdown, HTML, LaTeX) or document engineering concepts? If yes, could you briefly describe?
8. What do you hope to learn or achieve by taking this course?
9. What operating system do you primarily use? (e.g., Windows, Linux, macOS)
10. Are there any particular things I could do to help you succeed in the course?
11. Anything else that you think I should know about you.

For Today's Lab

- Set up GitHub account
- Access your first lab Assignment.