Welcome to CISC 879 Text Analysis for Software Engineering

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Who am I?

Computer Science Departmental Photo
From Left: Mark Krentel, Lori Pollock, Matthias Felleisen, David Callahan, Linda Torczon, Hans Boehm, Corky Cartwright, Willy Zwaenepoel

Who are YOU?
Write a Limerick about yourself

There once was a man from Nantucket…

5 lines and a rhyme scheme.

My Limerick

There once was a girl from PA

Who with puzzles she liked to play.

She married a man

Had 3 kids and a van

And now she's a professor by day.

Where are we starting today?

1. Write a list of tools/analyses that you have used or know of that help software engineers do their job more effectively

2. Write a list of artifacts that are created and used during software engineering

3. Answer the following question: What do you think is meant by program analysis? Text analysis for software engineering?

With a partner, discuss and merge your answers. Hand in one sheet with your names.

The Syllabus

Why are we doing these activities?

PhD-Program Preparation for Successful Post-PhD Career

Tao Xie

Department of Computer Science
University of Illinois at Urbana-Champaign

http://www.cs.illinois.edu/homes/taoxie/
taoxie@illinois.edu

Slides: http://people.engr.ncsu.edu/txie/advice/preparecareer.pdf
Advice Portal: https://sites.google.com/site/asergrp/advice

Advising: Students vs/and Research

- "Focus on the **students**, since graduating **great students** means you'll produce great research, while focusing on the research may or may not produce **great students**."

Nico Habermann
(1932-1993)

David Notkin
(1955-2013)

Learning: Students vs/and Research

- "Focus on **yourself**, since graduating **great yourself** means you'll produce great research, while focusing on the research may or may not produce **great yourself**."

You should still pay attention to this advice even if you already have a great advisor/collaborator who
- picks great problems for you to work on
- produces great ideas for you to implement the solutions
- writes great introductions or whole drafts for your papers
- ...

Essential Skills for a (PhD) Researcher

- is able to independently
  - **Assessment**
    - Others' Work (e.g., conference PC members, journal reviewers)
    - Own Work
  - **Vision** (e.g., per n years, research agenda)
  - **Design** (e.g., per paper/project)
    - Problem
    - Solution
  - **Execution** (e.g., time/risk/team management)
    - Implement
    - Evaluate
  - **Communication**
    - Written
    - Oral

high-quality/impact research

Homework for This Thursday

- Write a short paragraph professional biography (no more than 6 sentences).

- Look up how people write professional biographies at the end of journal papers and on their web sites.

- Put your biography in a word file with your picture in the word file. Name your file by your firstname_lastname_bio and place in the directory /usa/pollock/public/879tainSE on orioles.acad.ece.udel.edu.

- If you do not have an account, apply for one immediately at the EECIS website. Make your bio publicly available for reading by chmod 755 yourfilename