# CS:3620 Operating Systems

Introduction

# Introduction

- CS:3620 Operating Systems

- Instructor: Guanpeng Li

- Location: Fully online. On Zoom

- Lecture Hours: Tuesday and Thursday, 9:30am – 10:45am

- Prerequisite:
  - CS:2210 and CS:2230 and (CS:2630 or ECE:3350)
  - With a minimum grade of C- in these courses

- TA: Shehroze Farooqi

- Office Hours:
  - Instructor: On Zoom. Tuesday and Thursday: 1:00pm - 2:30pm, or by appointment.
  - TA: On Zoom. Monday and Wednesday: 9:30am - 11:00am, or by appointment

# Who am I?

- Guanpeng Li
  - Assistant Professor, Computer Science
  - Email: guanpeng-li@uiowa.edu

- Bachelor & PhD:
  - Computer Engineering, University of British Columbia (2014 & 2019)
  - Research area: System reliability and software testing

- Postdoc:
  - Computer Science, University of Illinois at Urbana Champaign (2020)
  - Research area: Autonomous vehicle reliability

# TA

- Shehroze Farooqi

  - 5th year PhD, Computer Science

  - Research Interests: Security and privacy

  - Email: shehroze-farooqi@uiowa.edu

  - Office hours:

    - On Zoom.

    - Monday and Wednesday: 9:30am - 11:00am, or by appointment

# Textbook

- Operating Systems: Three Easy Pieces

  - By Remzi H. Arpaci-Dusseau and Andrea C. Arpaci-Dusseau.

- Free online version:

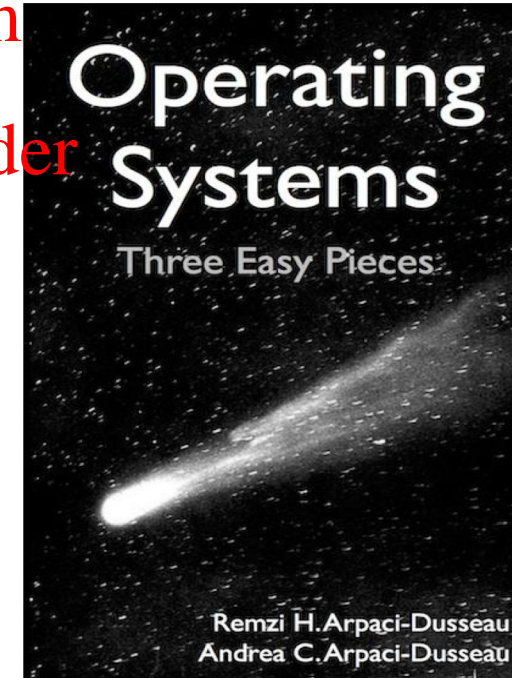  - http://pages.cs.wisc.edu/%7Eremzi/OSTEP/

# Online

- ICON
  - Announcement, Grade
- Zoom
  - Lecture meeting ID: 945 1801 9253
  - Instructor's office hour meeting ID: 924 0144 7259
  - TA's office hour meeting ID: 929 5648 0958
  - Published on ICON too. Join using your uiowa.edu credential
- Piazza
  - Q&A
  - Search for "CS:3620" on Piazza
  - Access code: 2020fall3620

# Online

- You must have a computer when participating in the class
  - Write code, run programs etc during lectures

- Lecture meetings on Zoom:
  - Put your full name on your profile

  - Turn your video off and mute your microphone

  - Post questions in chat, and I will read it out
  - Lectures will be recorded and posted on UICapture.

- Interactive components:
  - In-class quizzes, polls
  - Breakroom for in-class group discussions

# Grading

- Participation: 10%

- Homework: 35%

- Quiz: 20%

- Final exam: 35%

# Policy

- 3 days late policy for homework submissions

- You can discuss homework with colleagues

- You cannot show/share/copy code from colleagues

- You cannot copy solutions from internet!

- If you copy any line of code from online resources
  (e.g., Stack Overflow) provide the full link as a comment

- When in doubt, ask the instructor/TA!

# Communication

- You are responsible to check Piazza, ICON, and email

- Write to me or the TA only using your @uiowa.edu email
  - We cannot answer emails sent from personal accounts

- Please start the email subject with "[CS:3620]"

  - This way we won't miss your email

- Please specify your full name and your ID in the email

# Skills

- This class requires
  - Basic C programming knowledge
    - memory management, pointers, …
  - Basic Linux knowledge
    - usage of the shell, basic scripting, files, …

- I will **quickly** go through these topics during the first lessons, but some previous-knowledge and/or self-studying is highly recommended

- "Advanced Programming in the UNIX Environment (3rd Edition)" by Stevens, Rago.

- Reference platform: Ubuntu 20.04, 64bit

# In-Class Activity

- Background survey

Assignment Project Exam Help

https://powcoder.com

Add WeChat powcoder

# Homework 0, due by next lecture meeting

1) Register to Piazza for this class

   - https://piazza.com/class/kdp3bub9rzm66u

   - Access code: 2020fall3620

2) Be able to experiment with Linux
   - Install VirtualBox
   - Create an Ubuntu 20.04, 64bit virtual machine

Google is your friend:
e.g., https://www.youtube.com/watch?v=GGorVpzZQwA

Bring a laptop to the next class and make it can run Ubuntu VM