

SECURING A BAD CAREER IN PH.D. PROGRAM

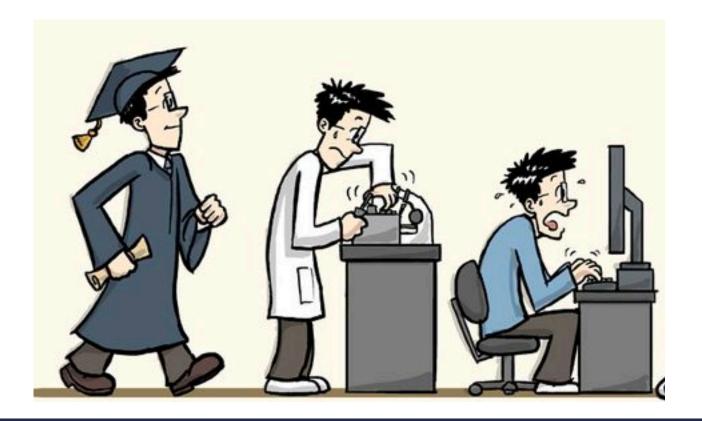
3 bad tips for Ph.D. students

Chang Lou, UVA CS Research Symposium 2024

OVERVIEW

- My research area: failures in cloud systems and data centers
 - Conducted empirical studies to understand why systems fail

- -Similarly, we applied this methodology to understand grad school
 - What are some common pitfalls for Ph.D. students?
 - Observations made on past experience



OVERVIEW







Advising Relations

Time Management

Work-life Balance

HOW DO YOU VIEW YOUR ADVISOR?



BAD TIP 1.1: ADVISOR IS YOUR MANAGER

- Principle: show your capability from independence

- Never ask help from your advisor
- If they don't reach out, you shouldn't
- It is fine to ignore their advice





BAD TIP 1.2: ADVISOR IS THE ORACLE

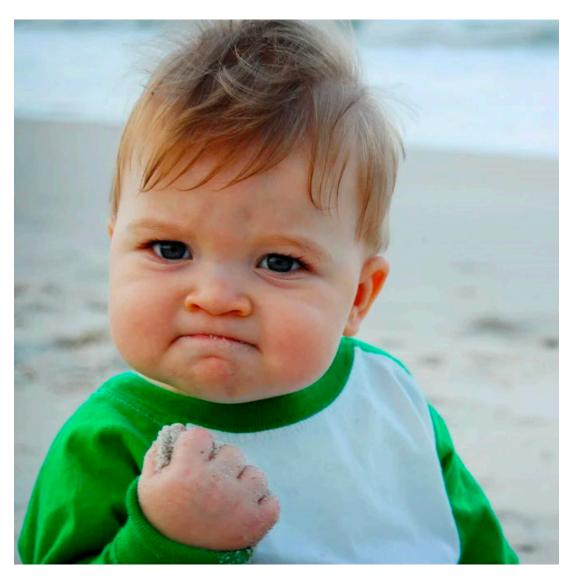
- Principle: just wait to be spoon-fed
 - Advisor is always right, follow each concrete instruction precisely
- Never disagree with your advisor
 - It is disrespectful and you will be kicked out of school



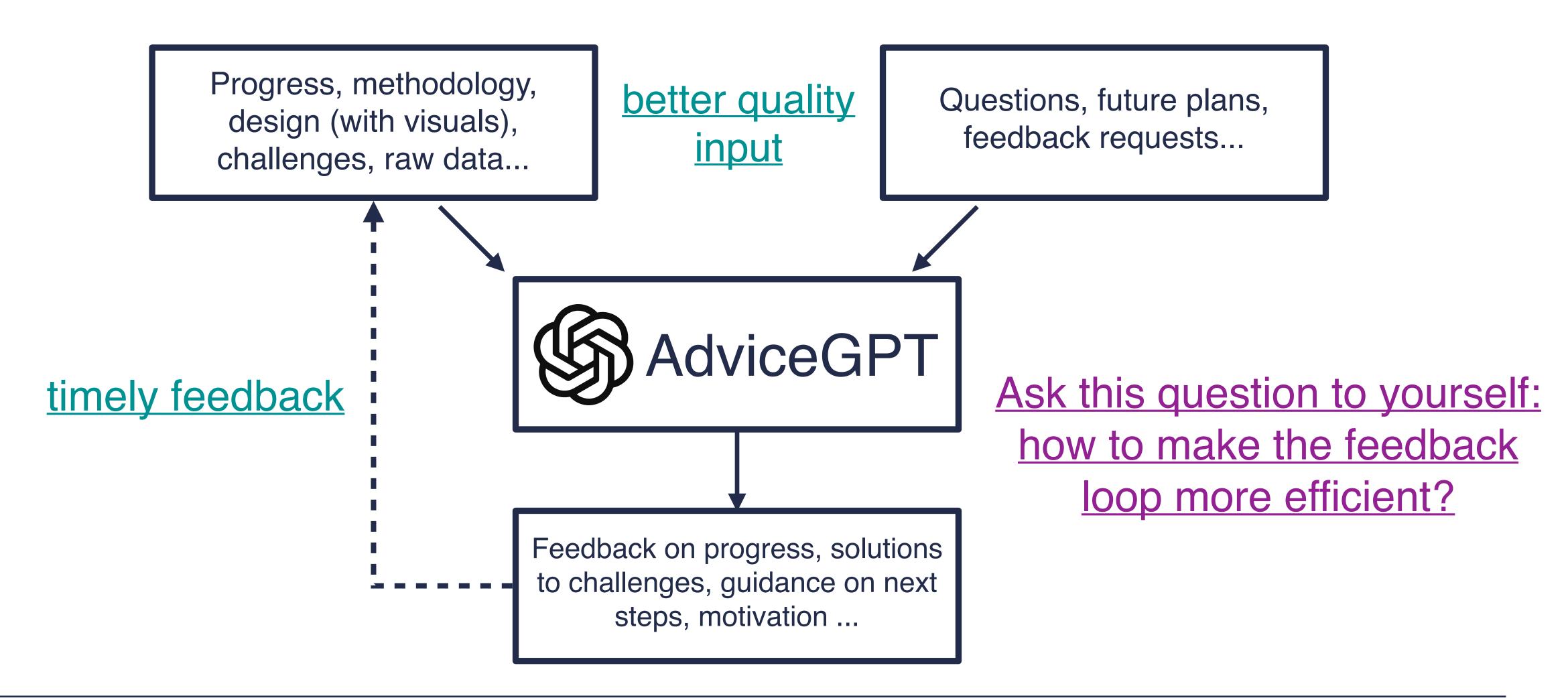


GOOD TIP 1: ADVISOR IS YOUR VALUABLE RESOURCE

- Principle: proactive, effective communications
- Don't be afraid to ask for help
 - One main purpose of Ph.D. program is to train good researchers
 - Take the initiate to win more resources for yourself
- Advisor is not always right
 - Dare to voice different opinions
 - Disagreement (with justification) wins respect



MANAGE (UP) YOUR ADVISOR



BAD TIP 2.1: COURSE WORK >> RESEARCH

- Try to spend all your efforts in courses
 - "I can't meet the paper deadline cuz I need to get A+ for my OS class..."
- Best Ph.D. students have the best GPAs
 - Make sure you are the best of the best
- Graduate as fast as possible with a 4.0 GPA!
 - Never take courses from unfamiliar areas, which have higher risks



GOOD TIP 2.1: TAKING COURSES WISELY

- As a Ph.D. student, you are eventually judged as researchers

- People know you because of your work, not your GPA
- What matters: recommendation letters from researchers who appreciate your work

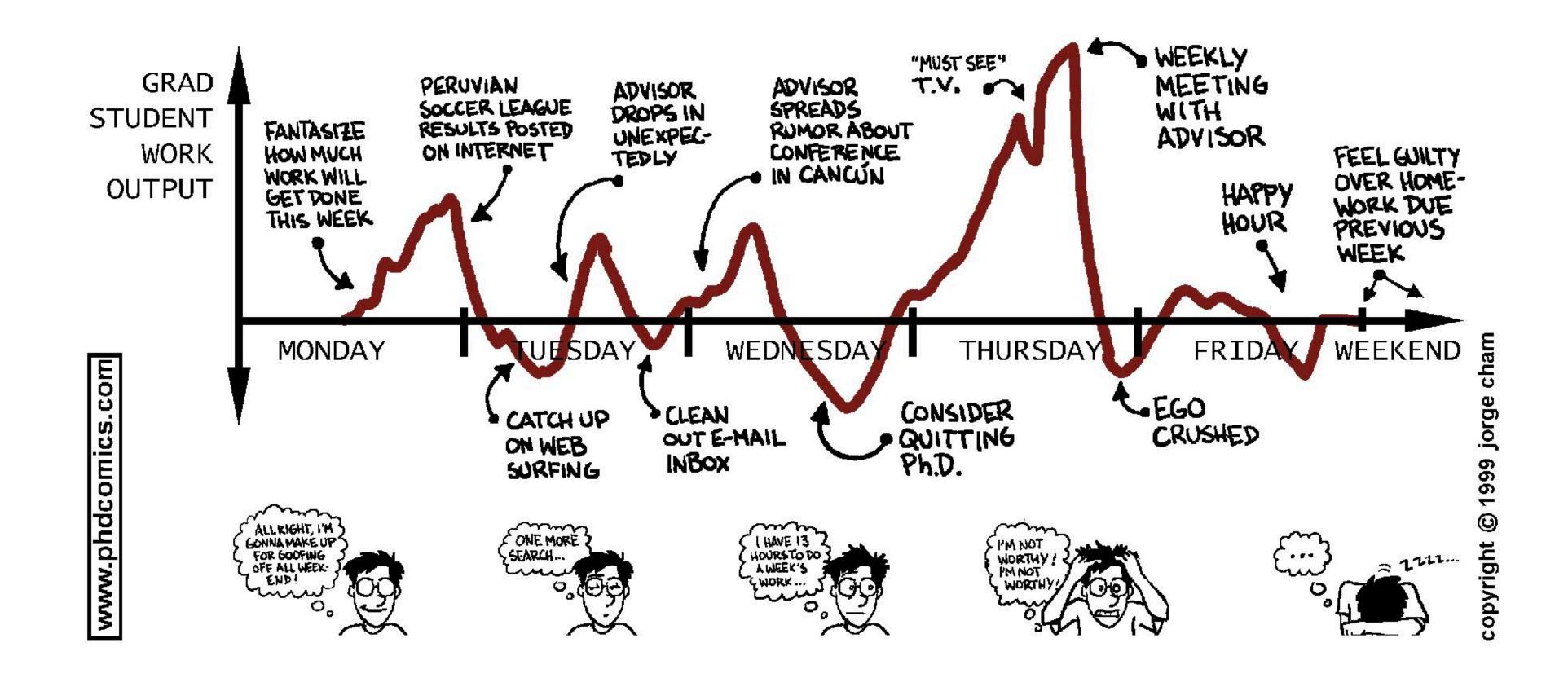
- Strategy: maintain reasonable grades

- Almost failed several courses in my grad school...
- But I made the first successful submission that semester

- Courses from different domains

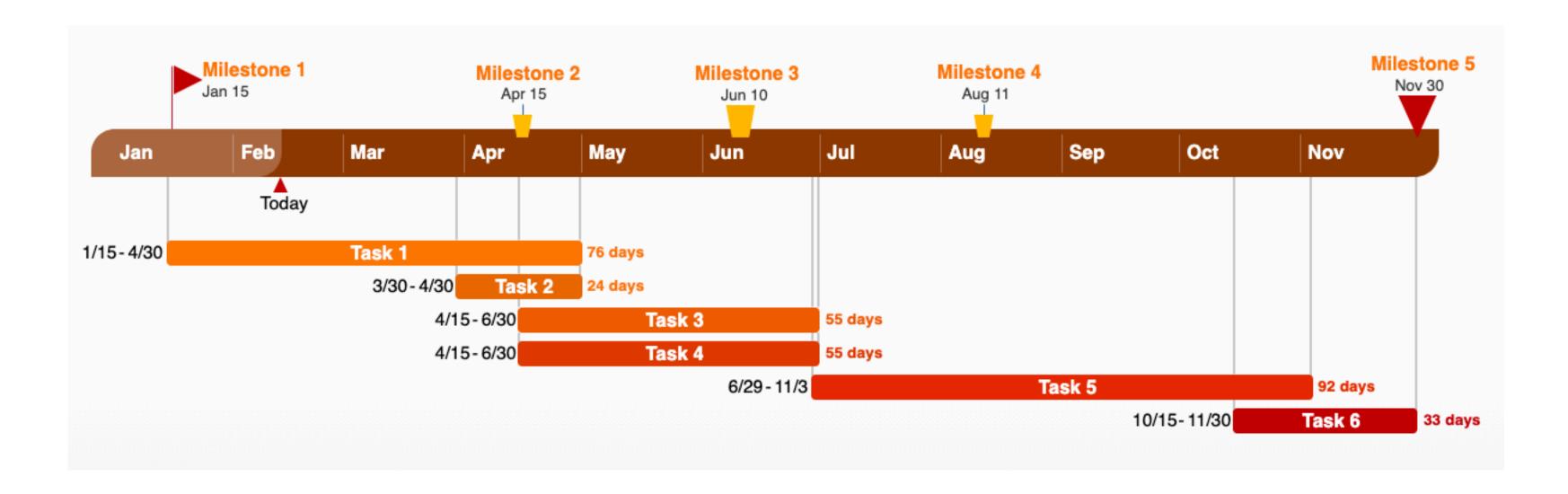
Last chance to learn not on your own

BAD TIP 2.2: PROCRASTINATION



GOOD TIP 2.2: START NOW

- Solution 1: start with a two-minute task
 - Take baby steps first
- -Solution 2: visualize the progress



BAD TIP 3: WORK >> LIFE

— Two common pitfalls: burnout and isolation





Burnout Isolation

GOOD TIP 3: A BALANCED WORK AND LIFE

- Your health matters more than anything
 - There is still a long path after your get your Ph.D. degree...
 - Developing a healthy hobby actually improves your productivity, e.g., exercise
- Protect your motivation carefully
- People walk further with accompany
 - Find a buddy to make fun of your advisor together ©



TAKEAWAYS

- Manage your advising relation
- Manage your time schedule
- Manage your personal life

Got questions? Happy to talk! chlou@virginia.edu
Rice 304

This talk incorpo	orates insights from
other amazing	advice for Ph.D.:

^[1] How to Have a Bad Career in Research/Academia. David A. Patterson, Berkeley.

^[2] Doing a Systems PhD. Steve Hand, Cambridge.

^[3] How to Optimize the Mentoring Relationship with Your Advisor. Ryan Huang, JHU.