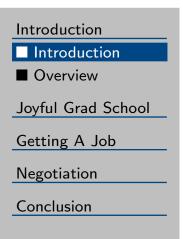
Tips For Surviving Graduate School And Getting A Job

Tianyi Gu www.cs.unh.edu/~tg1034





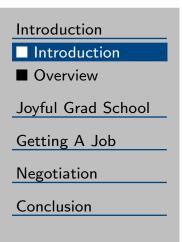
Introduction: Life at Grad School



Grad school is tough!

- climbing a knowledge mountain¹
- long working/studying hours
- limited resources
- juggling many things

Introduction: Life at Grad School



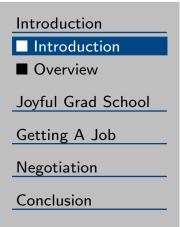
Grad school is tough!

- climbing a knowledge mountain¹
- long working/studying hours
- limited resources
- juggling many things

What's it for?

¹Matt Might: The illustrated guide to a Ph.D.

Introduction: Why Grad School?



Grad School is a training/preparation for a better life

- learning skill
- heavy workload endurance
- resource management
- juggling many things

Introduction: Why Grad School?



Grad School is a training/preparation for a better life

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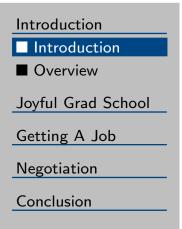
get all these through "simulation" for "free"

Introduction: Three Joyful Moments During Grad School



A tough training process can be full of joy!

Introduction: Three Joyful Moments During Grad School



A tough training process can be full of joy!

- get an idea
- get results
- share the idea with others

Overview



```
How to achieve joyful moments
get an idea
get results
share your ideas with others
other tips
```

- Tips for getting a job what you need how to prepare
- Tips for negotiation why how

Introduction

Joyful Grad School

- Research Idea
- Results
- Sharing Ideas
- Other tips

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Conclusion

How to Achieve Joyful Moments?

1/3 Joyful Moments: Get An Research Idea

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Research Idea

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- reading research papers²
- attending seminar/research talk/conference
- conversation with labmates/advisors/speakers/friends/families

1/3 Joyful Moments: Get An Research Idea

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- reading research papers²
- attending seminar/research talk/conference
- conversation with labmates/advisors/speakers/friends/families

"The scientific problem chooses you; you don't choose it" 3

²Andrew NG: Career Advise and Reading Research Papers, Harry Shum You are how you read

³Sven Koenig: What I Wish I Had Known Early in Graduate School but Didn't

2/3 Joyful Moments: Get Results



- the concept of cloud⁴
- negative results can also drive insights
- keep the machines busy

⁴Uri Alon TED talk: Why Science Demands A Leap Into The Unknown

3/3 Joyful Moments: Sharing Your Ideas

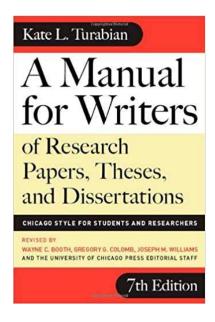
- Introduction

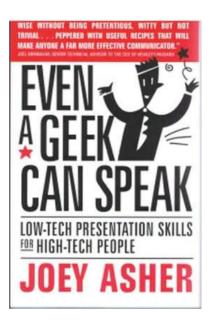
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- write a paper: workshop, main track, journal
- research talks





Other Tips

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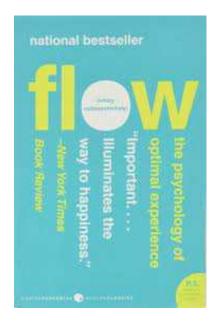
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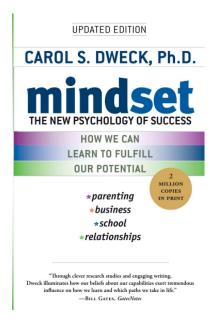
Getting A Job

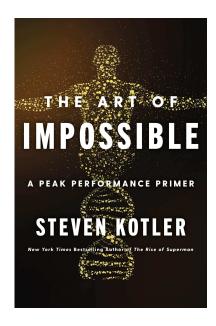
Negotiation

Conclusion

- Is TA/PAC worth it? Yes!
- Stress management: workout, meditation
- Flow
- Growth Mindset
- The Art of Impossible







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- Industry Jobs

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How to Get A Job?

What Are The Options?



- academic research position (high freedom, low salary)
- industry research position (some freedom, median salary)
- industry engineering position (low freedom, high salary)

What You Need To Get An Industry Job?



- internship experience
- connections
- interview skills

What You Need To Get An Industry Job?

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- internship experience cv, personal page, github page, apply!
- connections labmates, conferences, invited speakers, LinkedIn
- interview skills

 CS 858 algorithm, leetcode⁵, practice⁶, real practice

⁵Sean Lee: How to Get a Job at the Big 4 ⁶www.pramp.com

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Negotiation

- Why Negotiate
- Negotiation

Principles

- **■** Timeline
- Interview Stage
- Post-onsite
- Research Leverage
- Asks

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Negotiation Tips

Why Negotiate?

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■ Why Negotiate

- Negotiation Principles
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Conclusion

- Should I negotiate at all?
 Yes! 7
- What I need for negotiation?

At least 2 offers, try your best to synchronize the offer receiving time

https://unh.app.box.com/s/085mxr0phvfjhrsn0xt5mcdka88by31q

⁷AAAI-21 Rora webinar recording

General Negotiation Principles

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- Why Negotiate
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Conclusion

- don't say yes on the phone first time you hear the number
- minimize information leak
- maximize information gain
- if you have to provide info, always ask something for return
- always support your ask with reasons 8
- successful negotiation should hear 'NO'

⁸https://aipaygrad.es/ www.glassdoor.com

How to Negotiate For Your Dream Offer?

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Timeline 9

- interview stage
- post-onsite
- research-leverage stage

⁹https://www.teamrora.com/learn

Negotiation: Interview Stage

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interview stage

"What are you looking for in terms of salary?"

"I am still understanding the role and responsibliities and I will focus on that for now. I'd prefer wait till I know there's a match to think about numbers"

"What is the other offer you got?"

"I am just starting negotiate with them. There's no number that I feel confident to share at this point."

Negotiation: Post-onsite

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- interview stage
- post-onsite
 - first phone call: thanks for the offer and say nothing
 - second phone call: get the full package base (\$150k/year) annual bonus (12%) stock option (50k RSU = \$300k for 4 years total) ¹⁰ signing bonus (\$20k) relocation bonus (\$20k) Leveling (L4) other benefit (paid leave, paid vacation, WFH days, 401k match, medical insurance...)

average/year = 150x1.12 + 75 + 10 = \$253k

¹⁰https://carta.com/blog/what-is-stock-vesting/,
https://carta.com/blog/what-are-incentive-stock-options/,
www.optionimpact.com

Negotiation: Post-onsite

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- interview stage
- post-onsite

"How's it sound?"

"Can you share the full package? I can't evaluate it fairly without knowing the full package."

"Let me think about it offline and do more research on it" "I need to talk with my family/wife/advisor/..."

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- interview stage
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- research-leverage stage
 - hiring manager call

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- interview stage
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- research-leverage stage
 - hiring manager call

"What was the interview feedback?"

"What's the most exciting contribution/value I can bring to the team?"

"How someone grow in this role?"

111 11

"Can I get support in helping me in the negotiation with the recruiter?"

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 - hiring manager (HM) call
 - teammate call

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- interview stage
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- research-leverage stage
 - hiring manager (HM) call
 - teammate call

"Who would we report to? What is their background?"

"How about the team? How is the team structured?"

"What's difference between your level and the next level up?"

"How has the manager worked with you to set goals and achieve them?"

111 11

"I'm new to this whole full-time job search, what would you have wished you had known before when you were in my shoes? or something you wish you had done but didnt?"

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negotiation process: 2-4 weeks after get the first offer

ask #1: 200k \rightarrow 300k without showing counter-offer

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negotiation process: 2-4 weeks after get the first offer

- \blacksquare ask #1: 200k \rightarrow 300k without showing counter-offer
- offer #2 : say nothing on the phone, or fuzzy sentence like I believe it is on the right track
- research-leverage stage 2 : another offer come in / new concerns raise to HM / talk to CEO/CTO/CFO

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- **ask** #2: 300k \rightarrow 400k new evidence / showing counter-offer
- offer #3: you are currently my #2, I am super exited about the project/team, but ...
- research-leverage stage 3 : new counter-offer come in, ask for help from hiring manager again

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- research-leverage stage 3 : new counter-offer come in, ask for help from hiring manager again
- \blacksquare ask #3: 400k \rightarrow 450k
- offer #4: 420k, final push: if you can bring it to 430k I will sign it right way and cancel all other interviews.

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Conclusions

Grad school is tough but can be full of joy! get an research idea get results share your ideas with others

Conclusion

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Conclusions

Grad school is tough but can be full of joy! get an research idea get results share your ideas with others

To get a job, you need start to prepare as early as possible internship connections interview skills

Conclusion

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Conclusions

Grad school is tough but can be full of joy!

get an research idea get results share your ideas with others

- To get a job, you need start to prepare as early as possible internship connections interview skills
- Negotiation for you dream offer6 principles3 negotiation stage

Questions?

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■ Questions?

