Pursuing Research As A Cummins Undergrad

Michelle Davies Thalakottur

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- I will discuss privilege wherever relevant and aim to be as transparent as I can.

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- Share my experience. There weren't any seniors who publicly talked about research to me and I wish there had been.
- Hope that you will carry this forward.

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I've been thinking about what it means to do research and research for around two years now.

Part I

What is Research?

• This is a very hard question

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- Spectrum of research: Incremental ↔ Fundamental

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Personally, it is very fun and intellectually rewarding and stimulating.
 You might even end up considering making a career out of it.

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Common misconceptions

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 You are what you tell yourself. Don't hold yourself back.

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Enter: Research internships! A good way for you to try out research.

How do you 'do' a Research Internship

Part II

A. Before applying

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• You're still an undergrad. Better to try stuff out now and realise it's not for you. All good research experience is useful experience.

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Either can be a field that interests you. If your interest is due to how impressive a field sounds, realise that that isn't sustainable.

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- What you should not expect: Spoonfeeding, personal lectures
 - Learn how to learn by yourself.

B. Applying

Common advice

- Cold email professors! They're dying to get students involved in research.
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- Getting a research internship is a meritocracy.

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- Getting a research internship is a meritocracy. Nothing is a meritocracy. You might be the best person for the job and still not get it. Such is life.

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- Higher success rate and they might be more invested in your doing well than a random stranger (hopefully).

Ask your seniors to recommend professors to work with and refer you (if they can).

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P.S. You might need LORs from them in the future and if you speak to them, they can write more about you than a DWIC LOR.

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Research programs

- IIT's have research programs that you can apply to. Look online for more program web-pages. Most applications begin in January.
- IISc's <u>SRFP</u> program and <u>INAE</u>'s summer program would (hopefully) be worth your time and effort. Some applications end in November.
- Foreign internships:

Exorbitant fees may not be worth it.

Charpak, CERN, TIFR, etc. I had sent an email about this. Please refer to it for more links and information.

Unofficial way.

C. After Applying &

During the internship

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Part III

My experience, briefly

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- My parents support and encourage my decisions. That can be rare, quite unfortunately.

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Choosing to go for opportunities where you aren't paid is also weird.

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- If you're like me, you might just find it as fulfilling as I do.

Reddit

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Think about bias.

Reddit

General subreddits: r/gradadmissions, r/LadiesOfScience, etc Domain specific subreddits: r/ProgrammingLanguages

- Build relationships with your seniors and talk to them
 Join a club/panel! AICVS is great!
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If it seems really easy, you might not be getting the whole story.

AMA: Ask me Anything!

You can read about the specifics of my internship at IIT Patna here

Connect with me

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