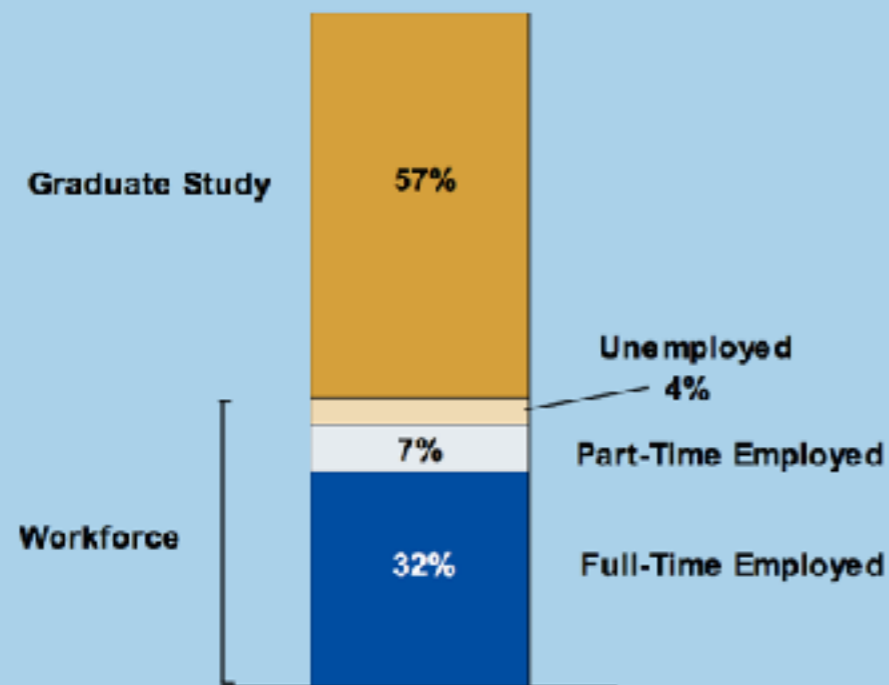


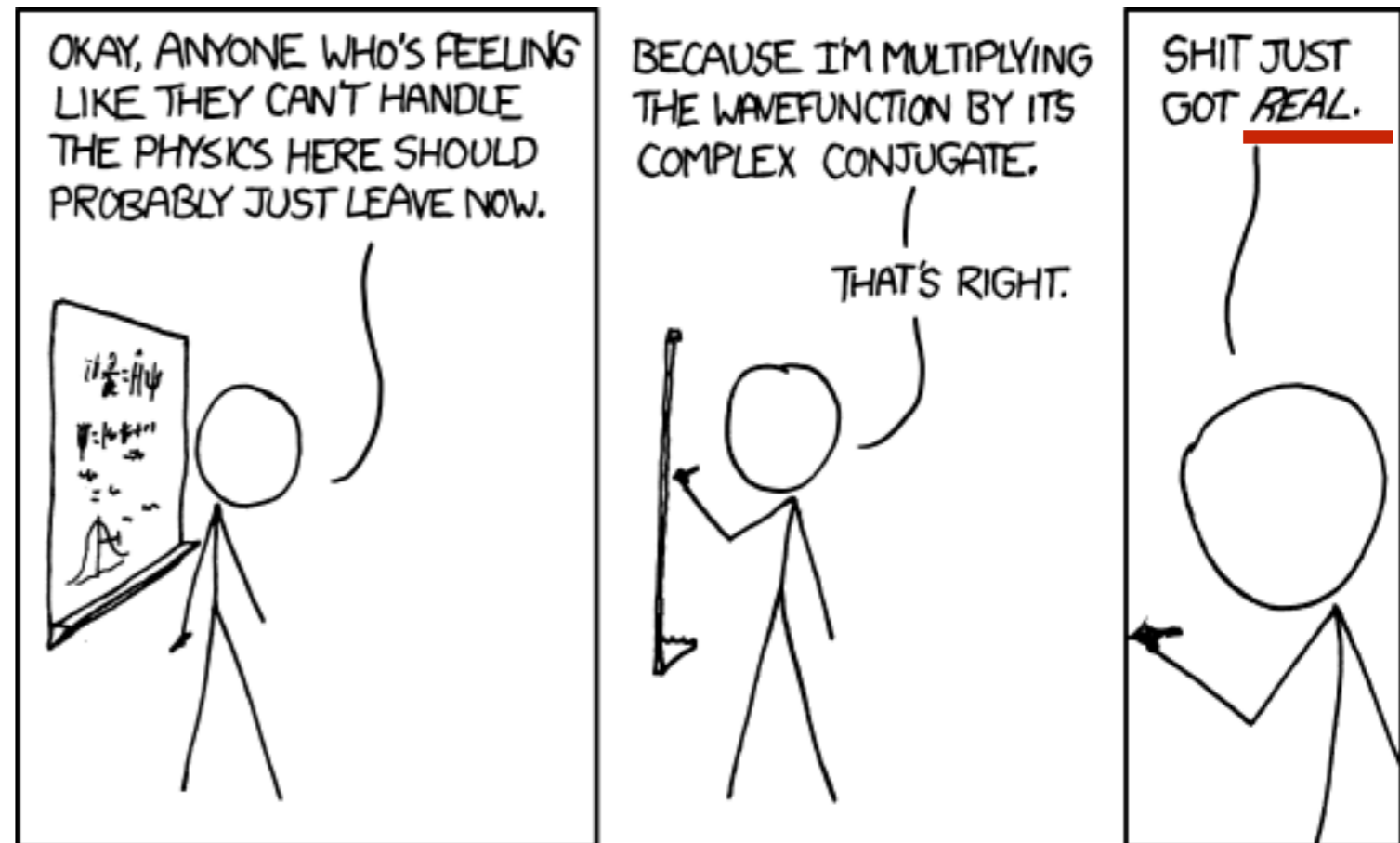
Physics 4601

Senior Seminar I

Initial Outcomes of Physics Bachelor's, Classes of 2011 & 2012 Combined.



<http://www.aip.org/statistics>

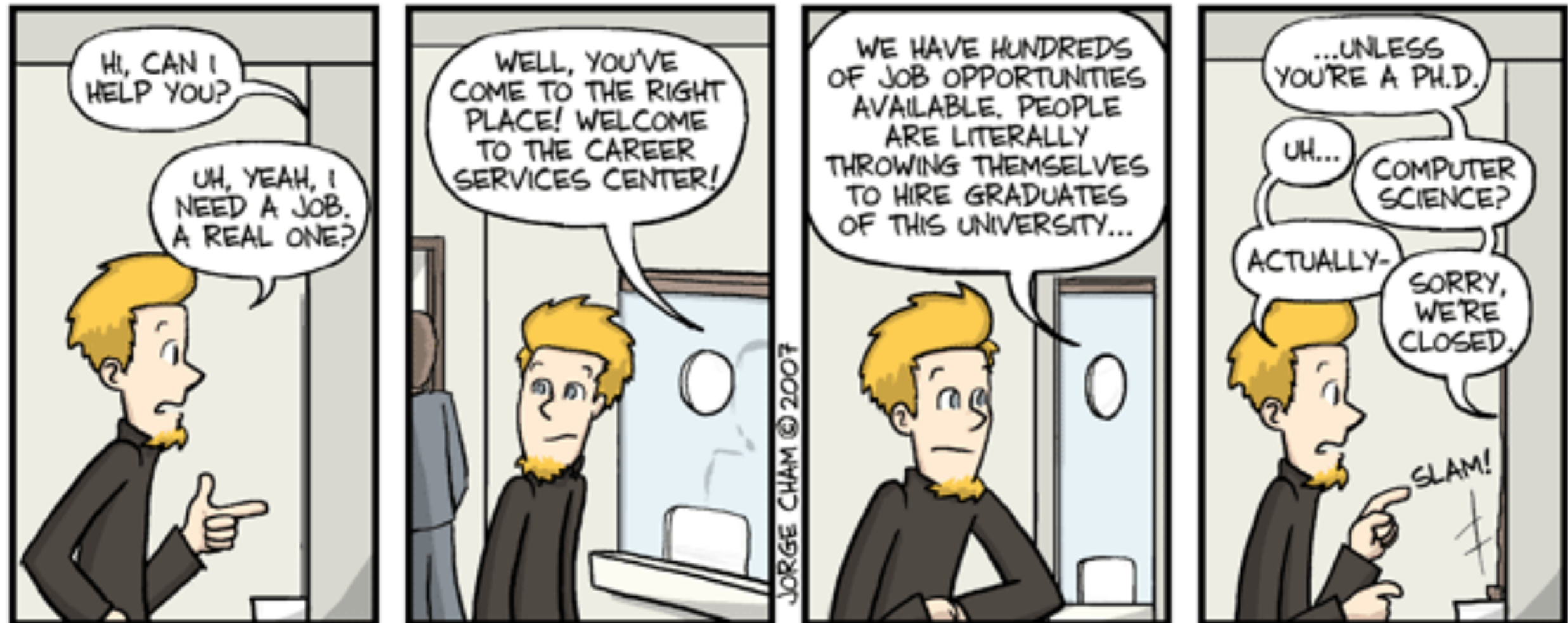


James C. (JC) Gumbart

<http://simbac.gatech.edu/phys4601/>

What senior seminar is:

Exploring career options...



WWW.PHDCOMICS.COM

all images © jorge cham



Emergency Button

What senior seminar **is**:

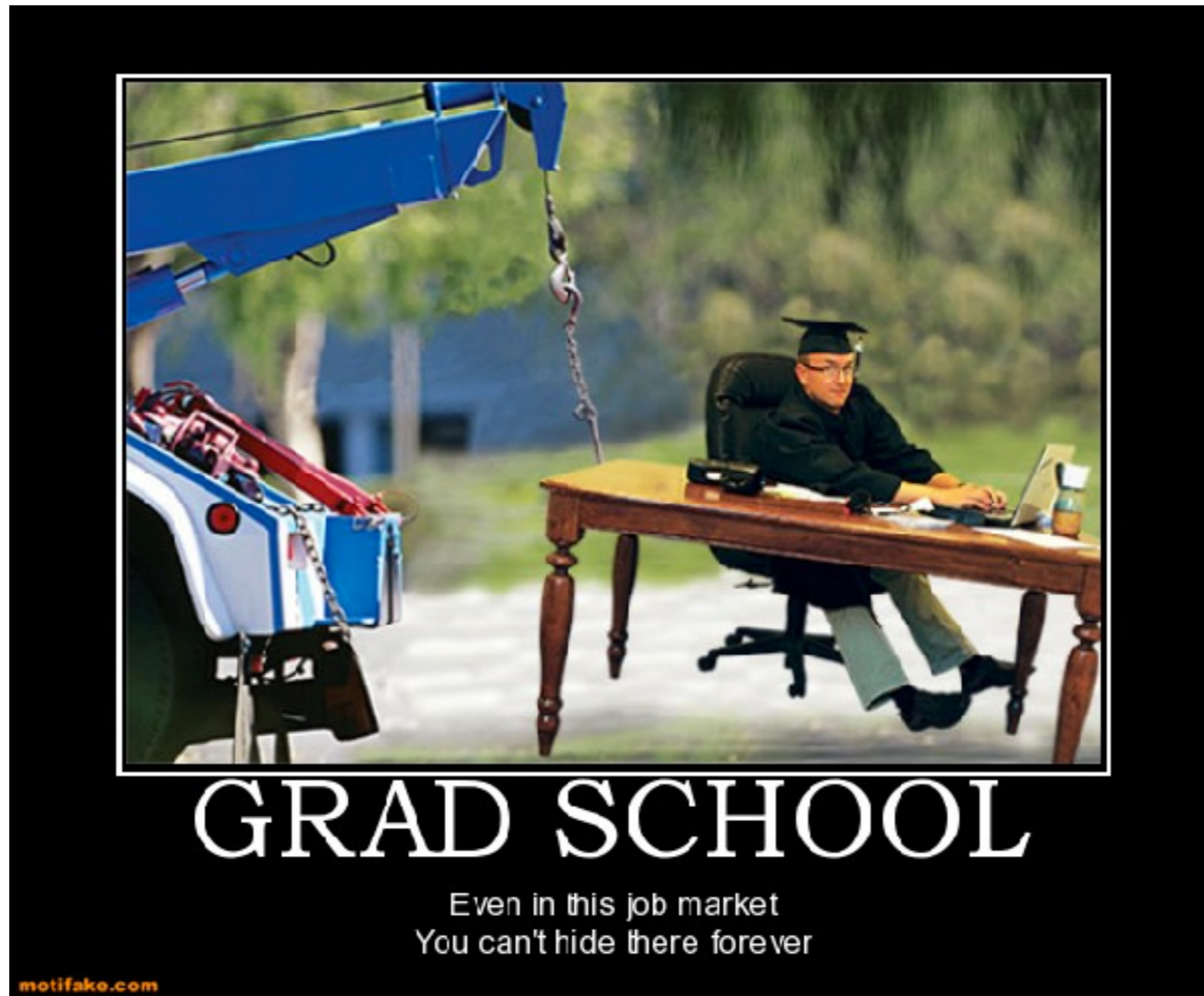


UNEMPLOYMENT

sucks when your job gets blow'd up

and avoid unemployment!

What senior seminar **is**:



Even if you are going to grad school, you are not immune!

What senior seminar **is**:



But we'll talk about how to get there too!

Think carefully about your choice...

Every fall about 2,500 students start physics PhD programs at US universities.

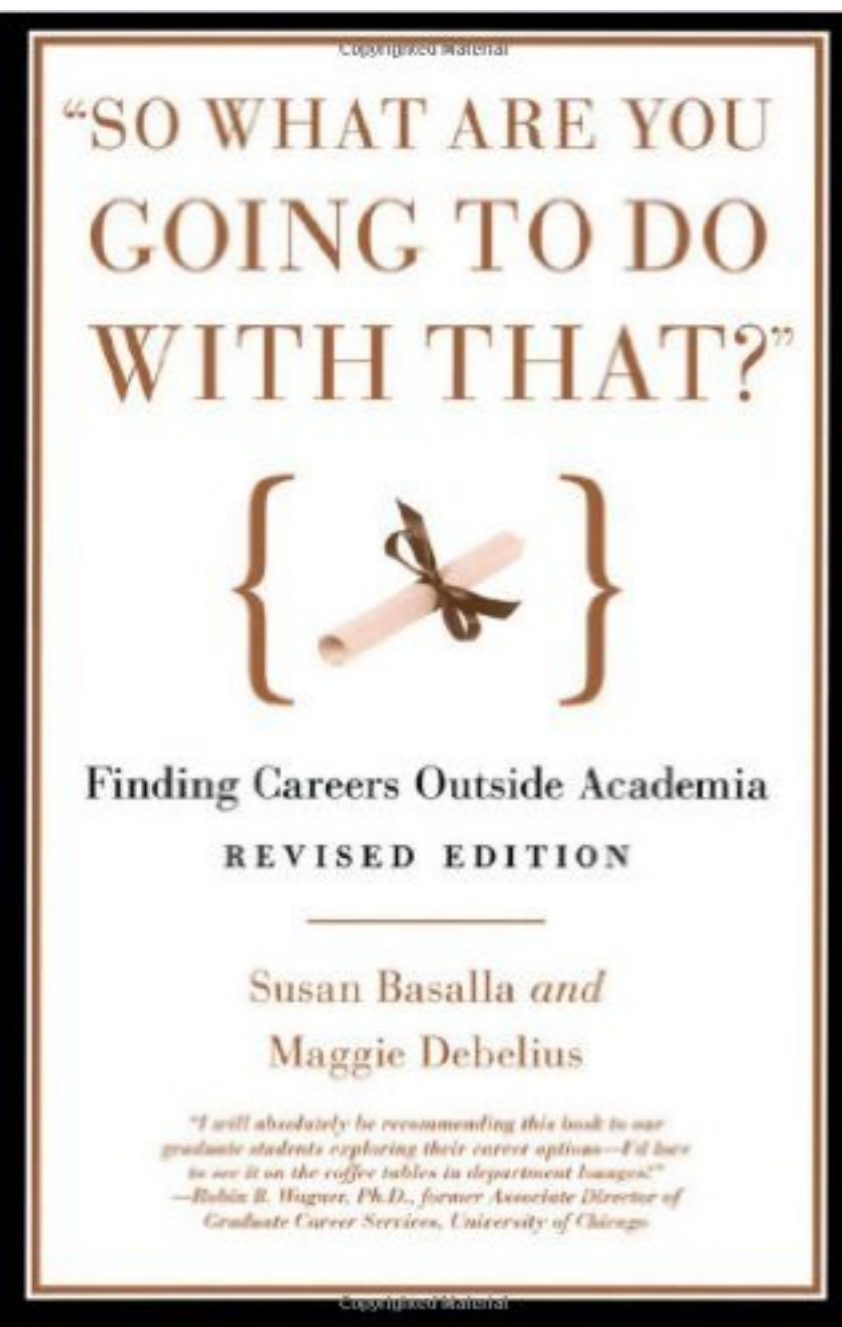
Roughly 1,500 of those students earn a PhD an average of 6.3 years later.

Every year US research universities hire about 200 new tenure-track physics faculty across all sub-disciplines.

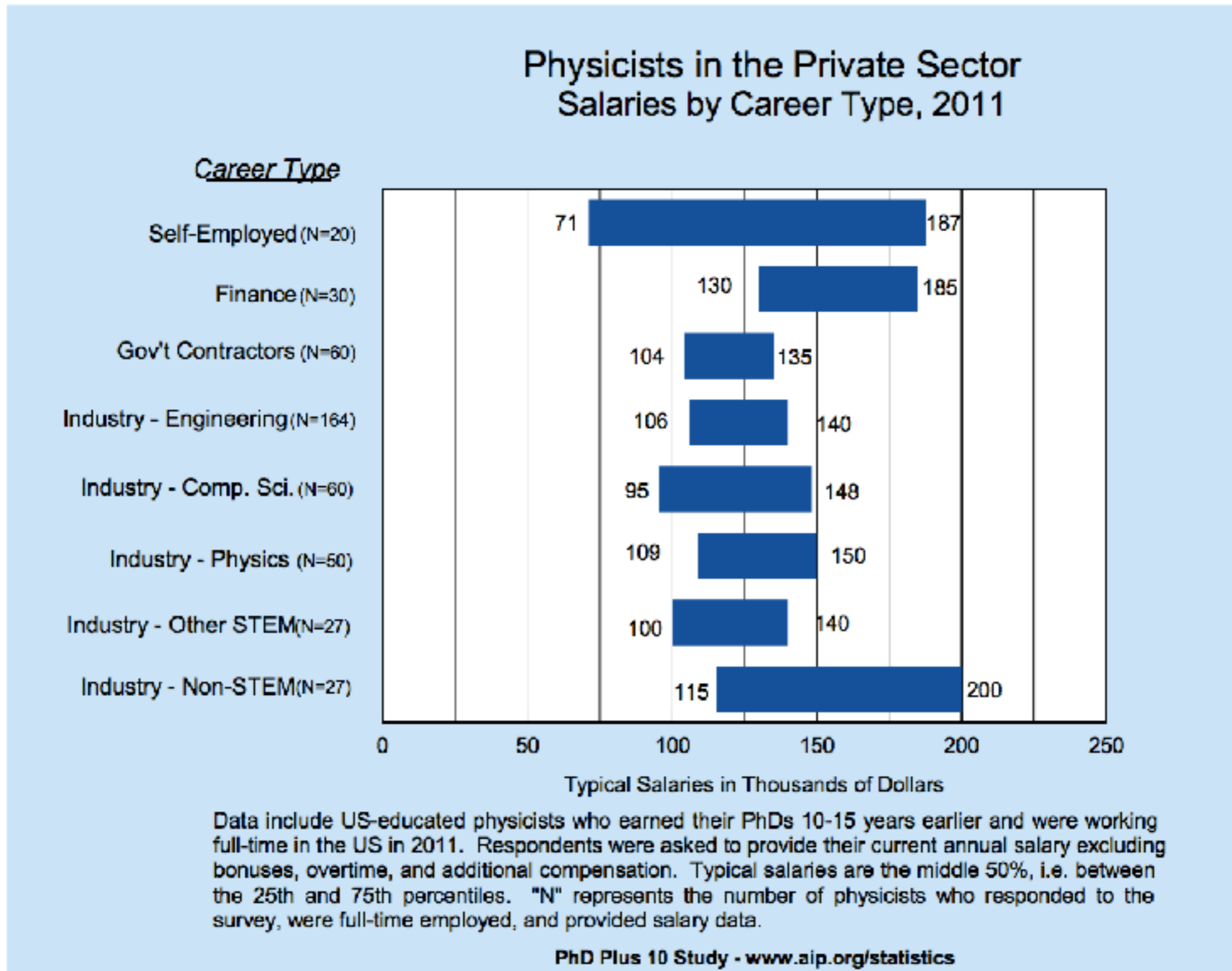
That means a new grad student has <10% chance of a becoming a professor!

Academia is the ***alternative*** career!

<http://www.prosperousphysicist.com/know-the-odds-of-becoming-a-research-university-professor/>



But it's not all bad news!



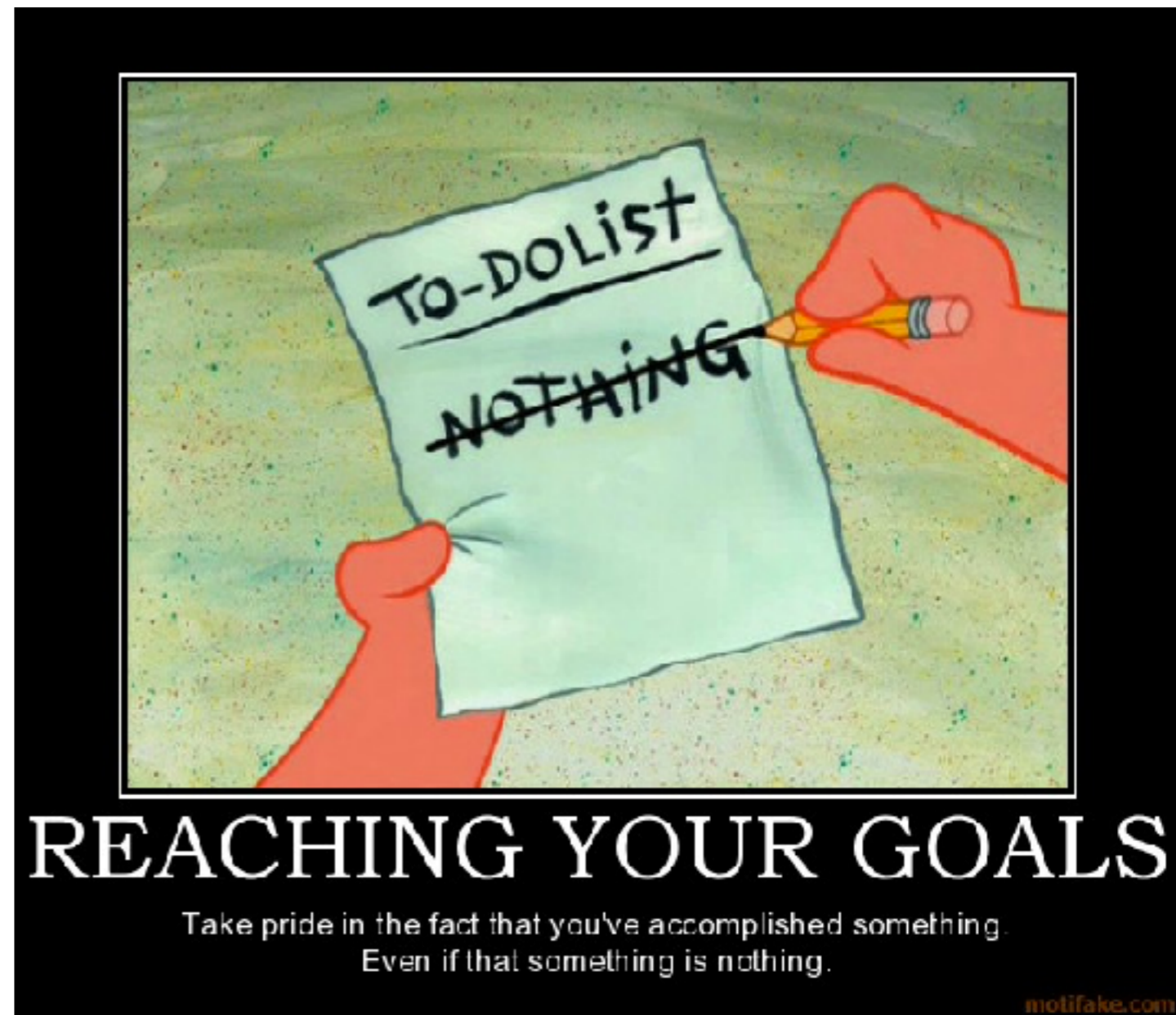
Learning Goals for the Course

learn how to write a
résumé (or CV) and apply
to jobs

prepare for the GRE
Physics test

figure out how to apply to
graduate schools

learn how to write a
proposal



Syllabus and other important resources can be found here:

Schedule

<http://simbac.gatech.edu/phys4601/>

Jan. 10: Intro; summer internships

Jan. 17: guest lecture on résumés and cover letters [examples](#)

Jan. 24: résumé cross-reading and 1-minute pitch

Jan. 31: "alternative" careers (outside of academia)

Feb. 7: applying to grad schools; personal statements

Feb. 14: personal statement/cover letter cross-reading

Feb. 21: NSF GRFP – (see "Fellowship Info" on the right for more)

Feb. 28: scientific papers and publishing

Mar. 6: GRE prep

Mar. 13: No class

Mar. 20: Spring Break!

Mar. 27: GRE prep

Apr. 3: Physics GRE sample test

Apr. 10: guest lecture on IP Law

Apr. 17: proposal cross reading



GT Spring All Majors Career Fair

<http://career.gatech.edu/>

<https://career.gatech.edu/spring-2020-all-majors-career-fair>

**McCamish
Pavilion**

**Wed. Feb. 5 &
Thurs. Feb. 6,
9:30am until
4:00pm**

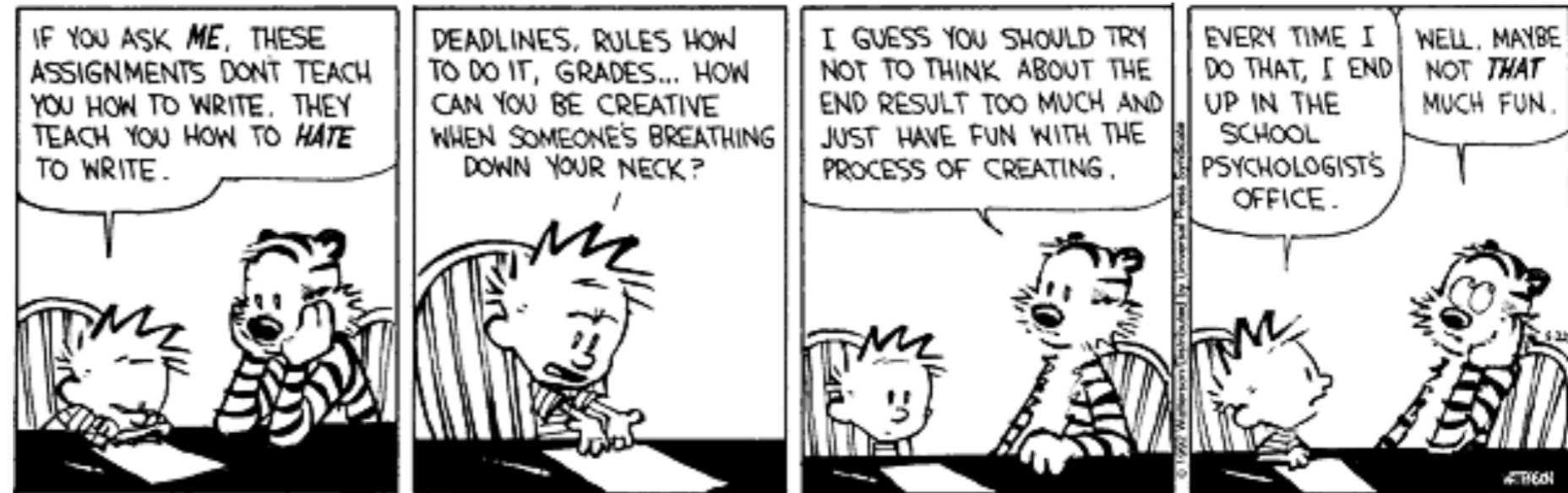


Even if you aren't sure what you want to do, consider going!
I will excuse one absence if you go and take a picture of
yourself there!

Okay, what else do you have to do?

résumé:

- shouldn't you have already done this?



One of the following:

- write a cover letter for a job
- write a personal statement for graduate school

Proposal:

- a research proposal suitable for the NSF graduate research fellowship (two pages, including references)

GRE preparation

- a **survey** of graduating seniors in 2015 revealed inadequate preparation for the GRE as a contributor to some low scores
- GRE Physics score is one of the two most important factors in getting into a graduate school! (*unfortunately*)

One of the most useful comments received:

“I don't feel like there is any specific guidance about how to apply to grad schools or what the GRE will be like built into the curriculum. Maybe some kind of 1-2 hour course telling you all about how to transition to grad... would be a cool class. Of course it could also address how to enter the other areas, like industry or a national lab. It could talk about the GRE and how it works and how to study for it, etc. A course like this would do a lot to help students decide what they want to do after grad school.”

A few career resources

among many others

<http://www.prosperousphysicist.com/>

PROSPEROUS PHYSICIST

Accept No Career Limitations



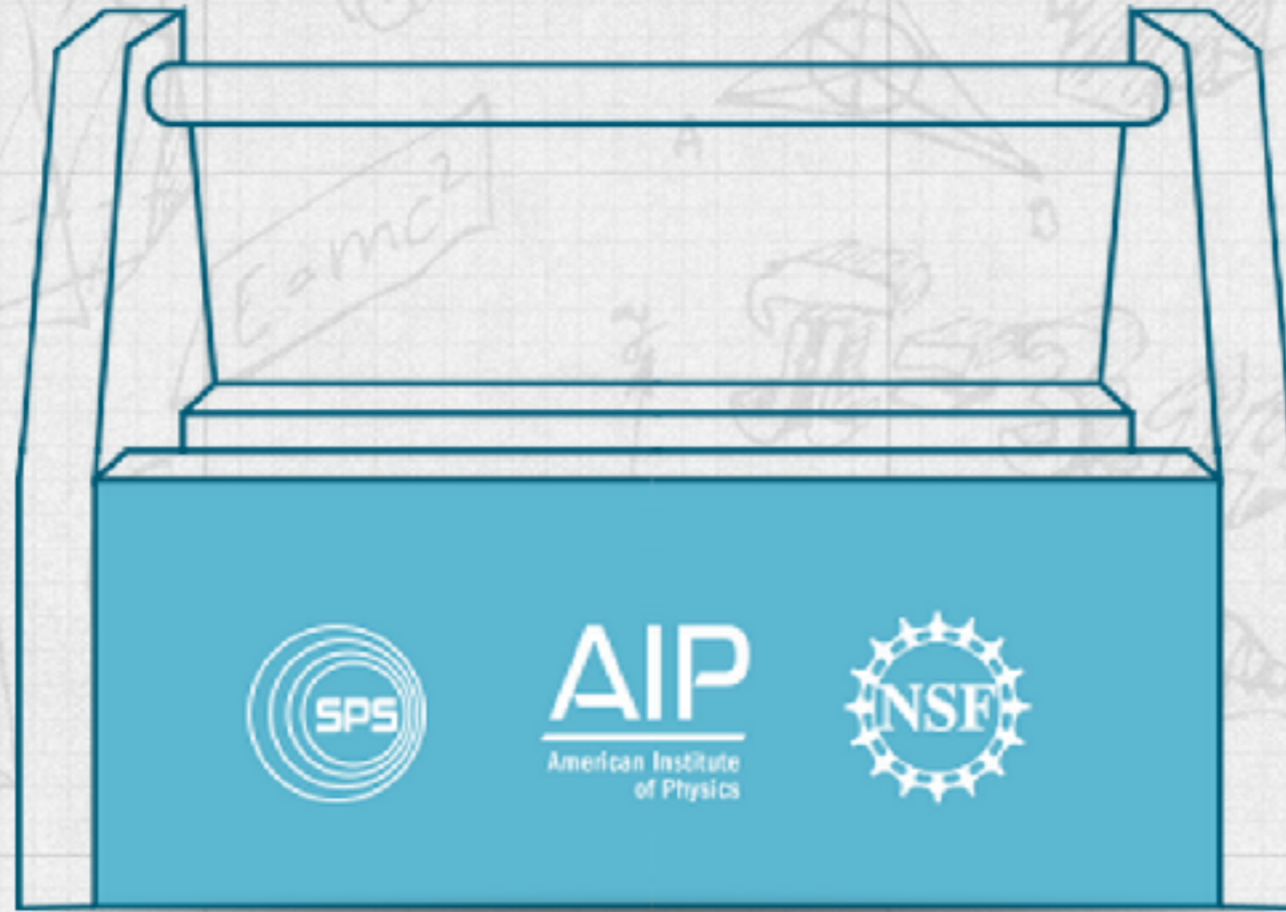
<http://www.physics.org/careers.asp?contentid=381>

<https://www.aps.org/careers/guidebook/index.cfm>



[Planning](#) | [Skills Inventory](#) | [Informational Interviews](#) | [Networking](#) | [Opportunity](#) | [Resume](#) | [Interviewing](#)

www.spsnational.org/careerstoobox/



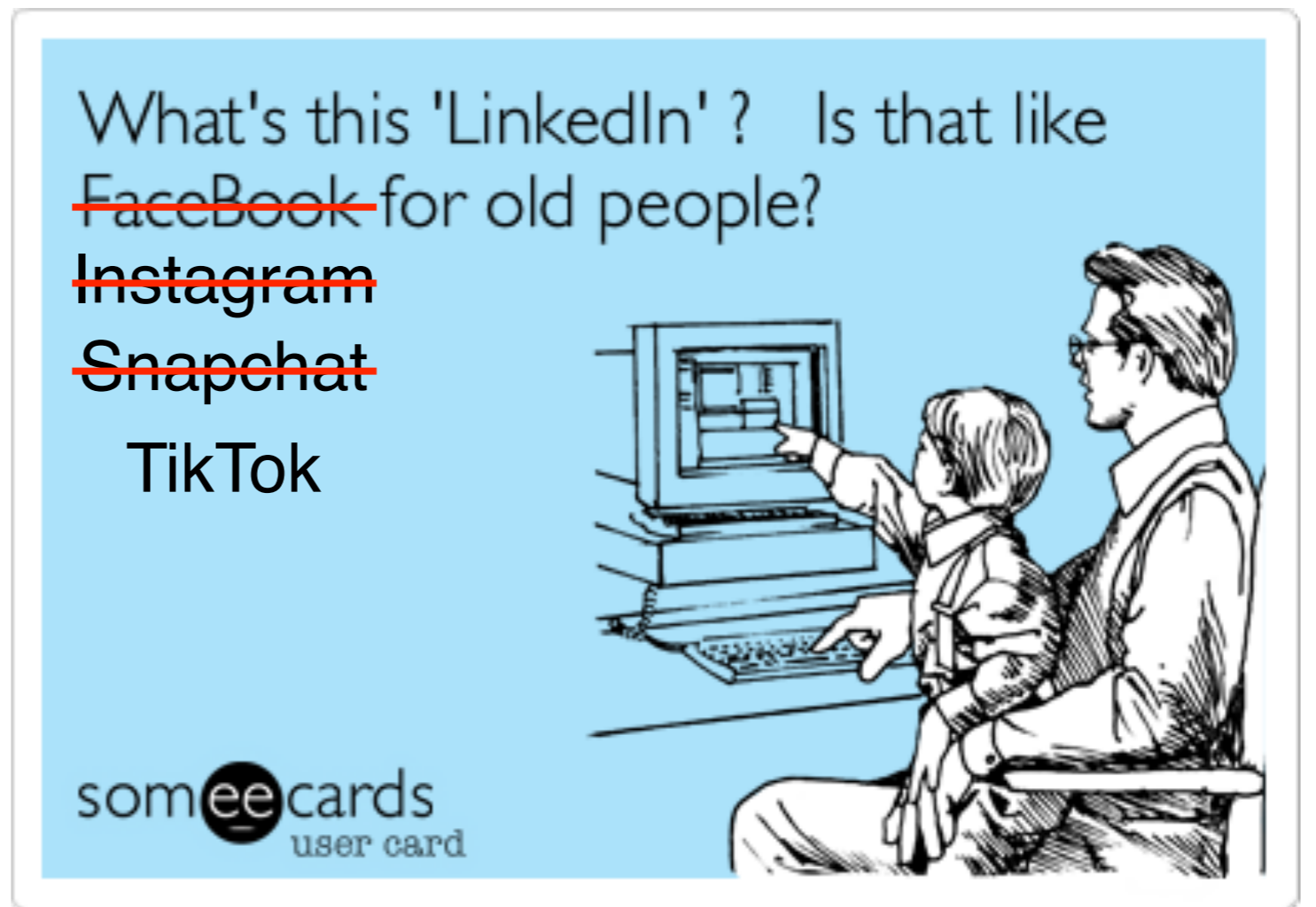
Careers Toolbox

for Undergraduate Physics Students*

includes guide for making a résumé! (see links on course webpage)

LinkedIn

I assumed this for a long time, but...



1) 94% of recruiters use, or plan to use social media for recruiting. This number has increased steadily for the last 6 years.

2) 89% of all recruiters report having hired someone through LinkedIn. Facebook and Twitter trailed by a wide margin, reaching only 26% and 15% respectively.

<https://www.linkedin.com/in/jcgumbart>

<http://blog.capterra.com/top-15-recruiting-statistics-2014/>