

YPPDO Town Hall:

Your wants and needs for career development

Yale Wright
Laboratory Department of Physics



Why are we doing this?

2015 Graduate Student Assembly STEM Survey for physics PhDs:

- 46% of surveyees have career goals that involve becoming faculty members
- 63% agree that their program is preparing them for their current career goals
- 29% agree that Career Services has been beneficial for their career development
- only 8% of students use the Office of Career Strategies 'a fair amount'

We all also know the experience of our friends and colleagues trying to stay in academia through faculty positions.

Also, many larger institutions have physical science-specific services, we need to get out of the Ivy tower!

Reality check!

This is not meant to scare, but inform...

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11 out of 310

Yale physics PhDs now hold teacher/lecturer/faculty positions*

*Statistic (over last 20 years) from Analytics and Data Services, Development Office Yale University.

There ARE resources at Yale: OCS

Yale *Office of Career Strategy*

“Career Strategy Workbook: Rubrics and Worksheets”

Yale Graduate School of Arts and Sciences & Postdocs

GSAS & POSTDOCS

- › Non-Academic Job Search

- › Academic Job Search

- › Building Connections

- › Career Toolkit
 - › Overview and Timeline
 - › Your Professional Narrative
 - › Self-Assessment
 - › Professional Conduct and Etiquette
 - › Professional Online Identity
 - › Resumes
 - › Cover Letters
 - › References
 - › Interviews
 - › Assessing an Organization's Culture
 - › Job Offers
 - › Life After Yale

- › Resources for Faculty

- › Resources for International Students

- › Resource Library

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These are general strategies...

Yale Physics Professional Development Organization

From our proposal:

[...] expose physics PhDs and PhD candidates to **career-relevant skills** as well as to the **wide range of non-academic career opportunities** and prepare them for a possible career transition after their time at Yale. This is especially relevant now, given [...] the recent trend that the **majority of graduate students and postdoc researchers will enter the workforce** via careers in private industry, government, or education and **not as faculty at major research institutions**. [...] will hopefully come a **culture change** within the department, one that does not attach a stigma to pursuing work outside of academia. At the same time, the graduate students who choose to stay in academia will be able to do so out of an **informed choice** [...].

YPPDO this semester

February

workshop: B. Frenette (Yale OCS), OCS introduction

March

workshop: this discussion!

seminar: E. Ideal (Facebook), M. Trottier-McDonald (Opendoor),
Data science

April

workshop: K. Bohemier (Yale CSSSI), Professional Online Identity

seminar: TBA

Next year?

Field trip to IBM, medical physics, fusion, NIH, life at a national lab.....

WE WANT YOUR INPUT!

Some ideas...

Workshop ideas

- how to market yourself and your skills: transition from academia to industry
- networking advice
- interviewing, salary negotiation
- PENG certificate, engineering school
- how to approach the postdoc search
- ...

Industry ideas

- detectors and product R&D
- data science, mining, modeling
- project management
- national lab, government, defense- patent law
- teaching college
- climate and environment modeling
- aerospace engineering
- multi-product engineering
- lasers-
- oil, gas, minerals with muon and neutron tomography
- ...