

# Individual Development Plans

## Understanding yourself to thrive personally and professionally

Steve Lee  
Stephanie Veve  
Predrag Cvetkovic  
Joshua Speros  
Arica Lubin

BioPACIFIC MIP Summer School

August 3, 2021  
1:50-3:50 pm (PT)

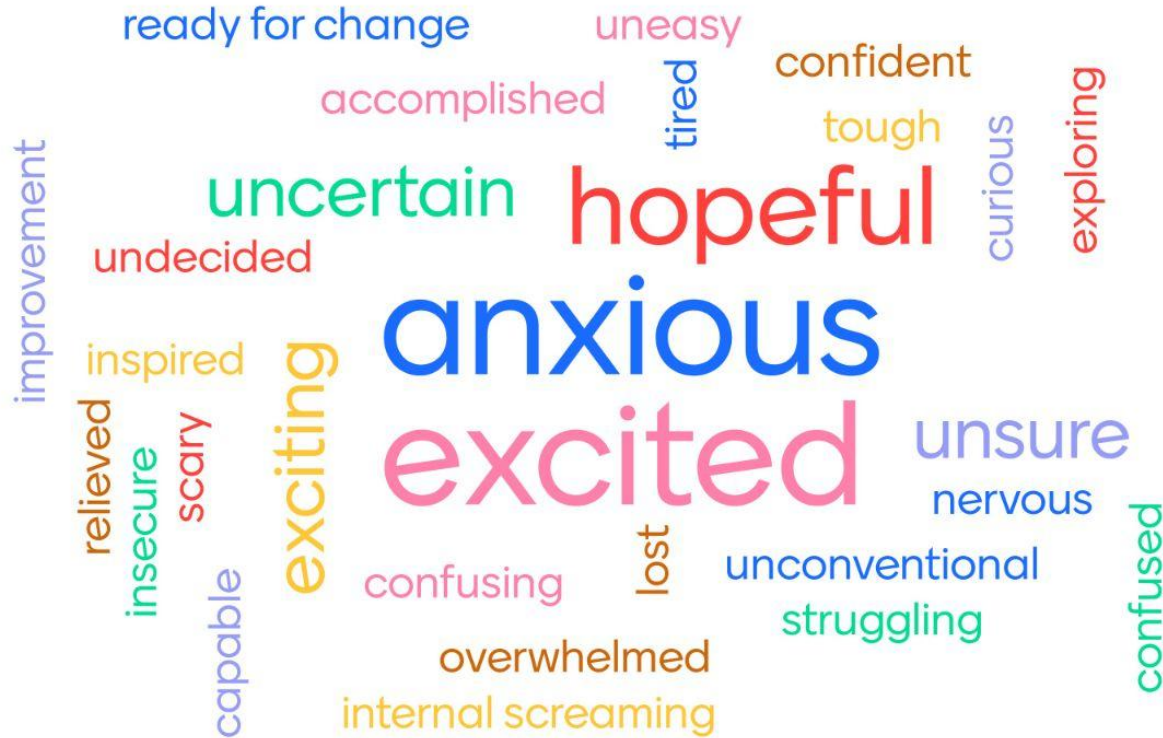
# Introductions: Co-Facilitators

- **Predrag Cvetkovic**
  - Human Resources Bioscience Research, BASF
- **Stephanie Veve**
  - Human Resources Bioscience Research, BASF
- **Joshua Speros, PhD**
  - CARA – California Research Alliance by BASF
- **Steve Lee, PhD**
  - Assistant Dean of Inclusion, Diversity, and Equity at Stanford University
  - Master Facilitator with CIMER
- **Arica Lubin, PhD**
  - Associate Director, CSEP, UCSB
  - Education Co-Lead, BioPACIFIC

# Introductions: Participants

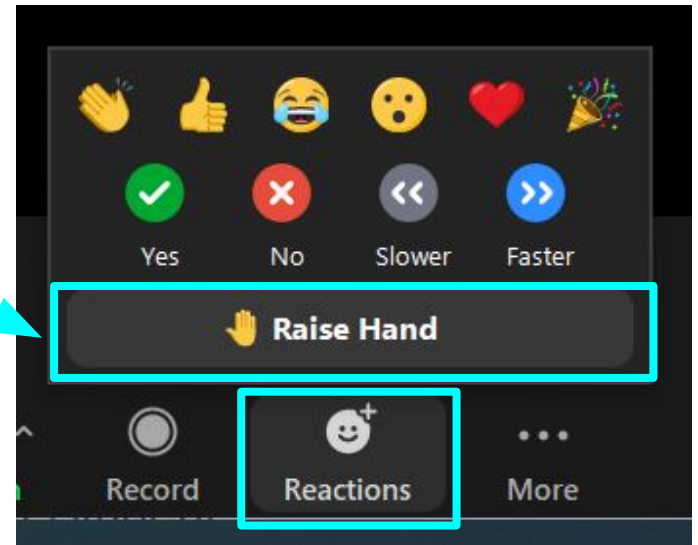
1. **via Zoom** (~10 sec each; alphabetically)
  - Name (pronouns, if you'd like)
  - Discipline
  - Year in program or appointment
  - Institution
2. **via Menti** (to create a word cloud; URL in chat)
  - Please share 3 words/phrases that describe how you feel about your career after your MS or PhD. (anonymous)
  - A list of feelings is offered (URL in chat)

# Word Cloud Results



# Suggestions for interactions

- If you have a question or comment, feel free to
  - use the chat window, or
  - raise your hand in Zoom.
- Please remember to mute or unmute your mic as needed.
- Please keep your video on (if possible).



# What to expect

- Emphasis on process, not content
  - interactive breakout discussions
  - facilitating conversations
  - expect a lack of closure
- Practical skills and resources will be provided, but not a “12-step program to become the perfect grad student”
- Community Agreements
  - reflect and respect
  - make space, take space
  - confidentiality

# Overview

Breakout discussions: Case Study

**Intro to career development for STEM grad students**

**Individual Development Plans in industry**

**Self-assessment tools and activities**

Closing: next steps, resources, Q&A

# Case Study

Mira and her husband John were feeling squeezed by their financial situation. Both are almost done with their PhD programs, and want to start a family soon, but they are worried that they would not have enough income to live comfortably with children in the Bay area (where their extended families reside).

Recently, a sales rep visiting Mira's lab told her about a newly available Field Applications and Sales Scientist position at his company (a major microscope vendor). In their discussion, he happened to mention that she could more than double her current income in that role, so she was naturally intrigued. Mira applied for the job, got an interview, and was offered the position. With encouragement from her husband, she was about to accept the offer. But she began to have second thoughts. She wondered:

(adapted from "What do you care about?" by Lindstaedt, et al. *Science*, 12/7/2012)



# Case Study

- “Sure the money is going to be nice but how will I balance childcare with the extensive travel that the job requires?”
- “I initially chose scientific research to make an impact on my field, work on cutting edge questions, and make a real difference in peoples’ lives. Will I be able to do those things in this new position?”
- “This Field Apps/Sales position has a base-salary-plus-commission salary structure. They all seemed really happy with their jobs, but they sure talked a lot about the extra hours they spent working to meet their sales goals.”
- “If I were to work in this position temporarily to get some experience and earn some money, will I be able to transition into my ideal job later? How would this temporary job look on my resume?”

# Case Study

1. What would you do in this situation? Would you accept this job?
2. Think back to a past situation where you had to make a tough decision. How did you make that decision? What was your decision-making process? Are you satisfied with your process and results?
  - *Please discuss and share your responses in the Participant Workbook (URL in chat).*
  - *~10 min for this breakout session.*
  - *We'll debrief together.*

# The Question

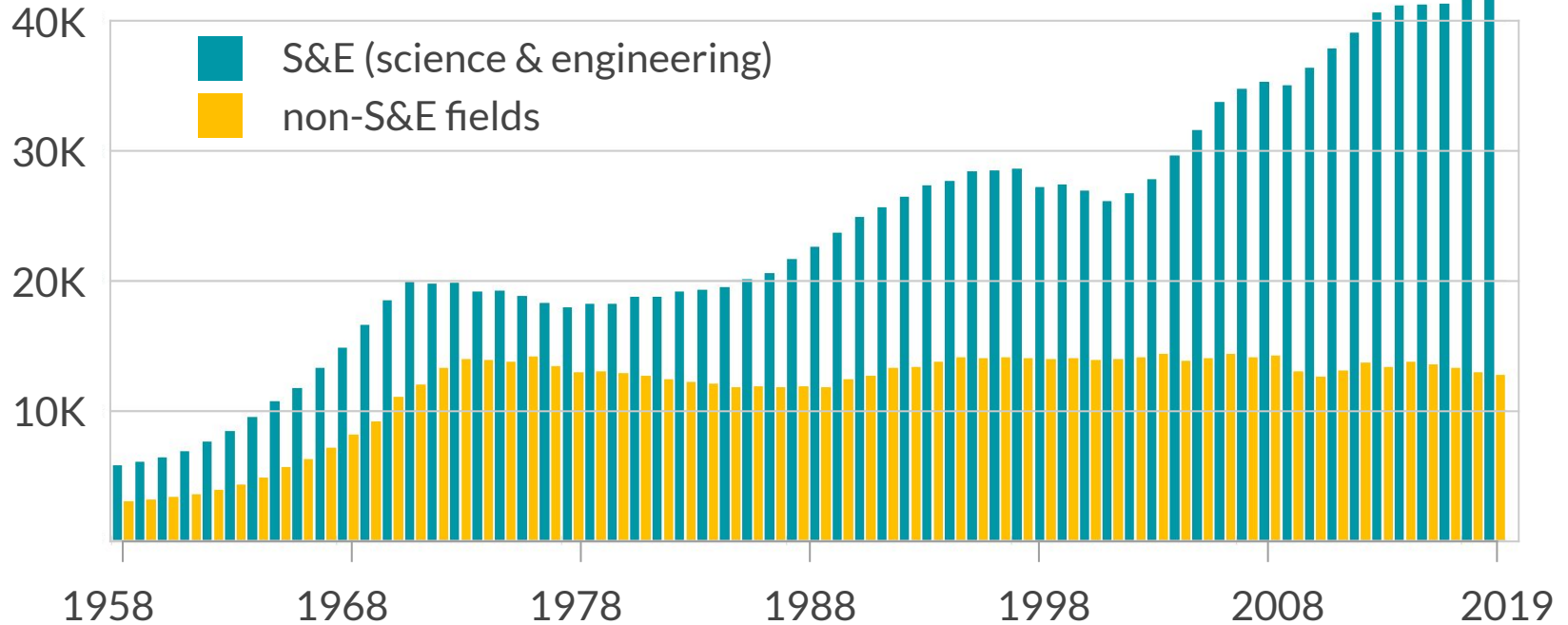
"What do you want to be  
when you grow up?"



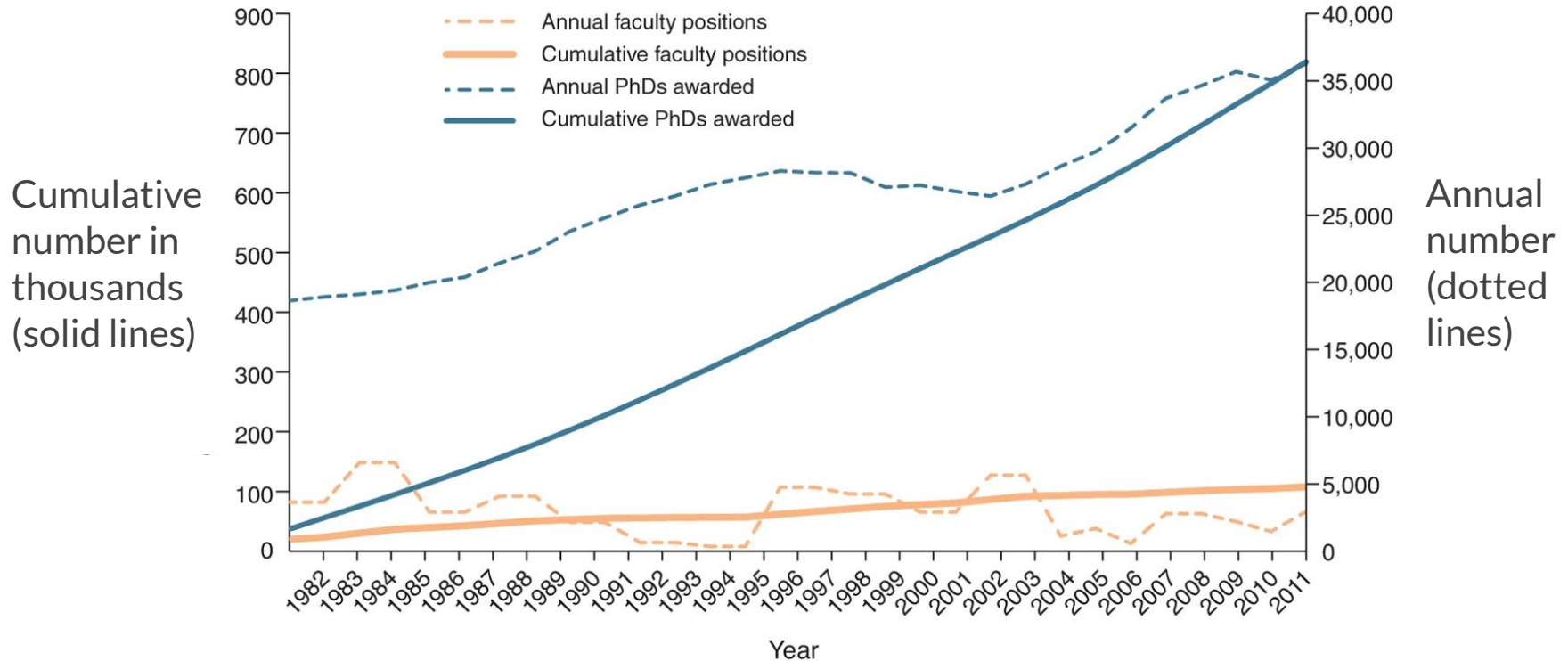
"Kind" said the boy



# History of PhDs awarded in the U.S.

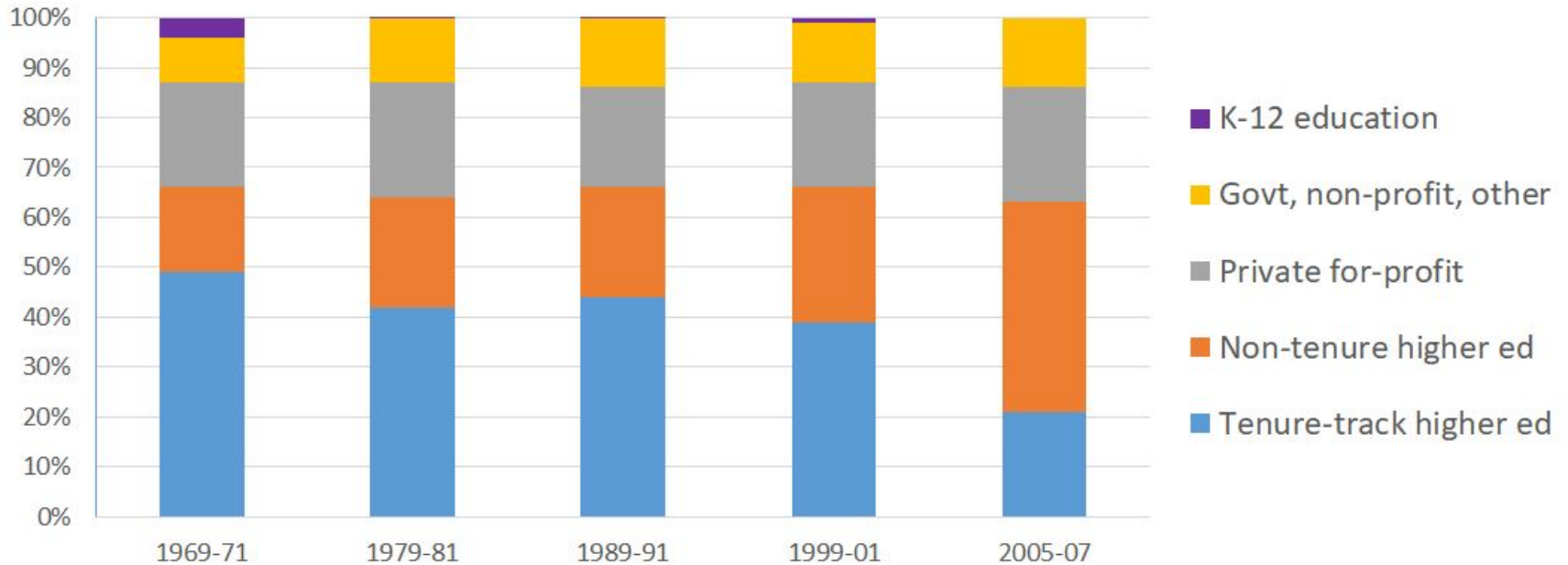


# History of STEM PhDs and Faculty Positions



# Career paths of STEM PhDs

UC Doctoral Alumni Survey (2014) - Life Sciences



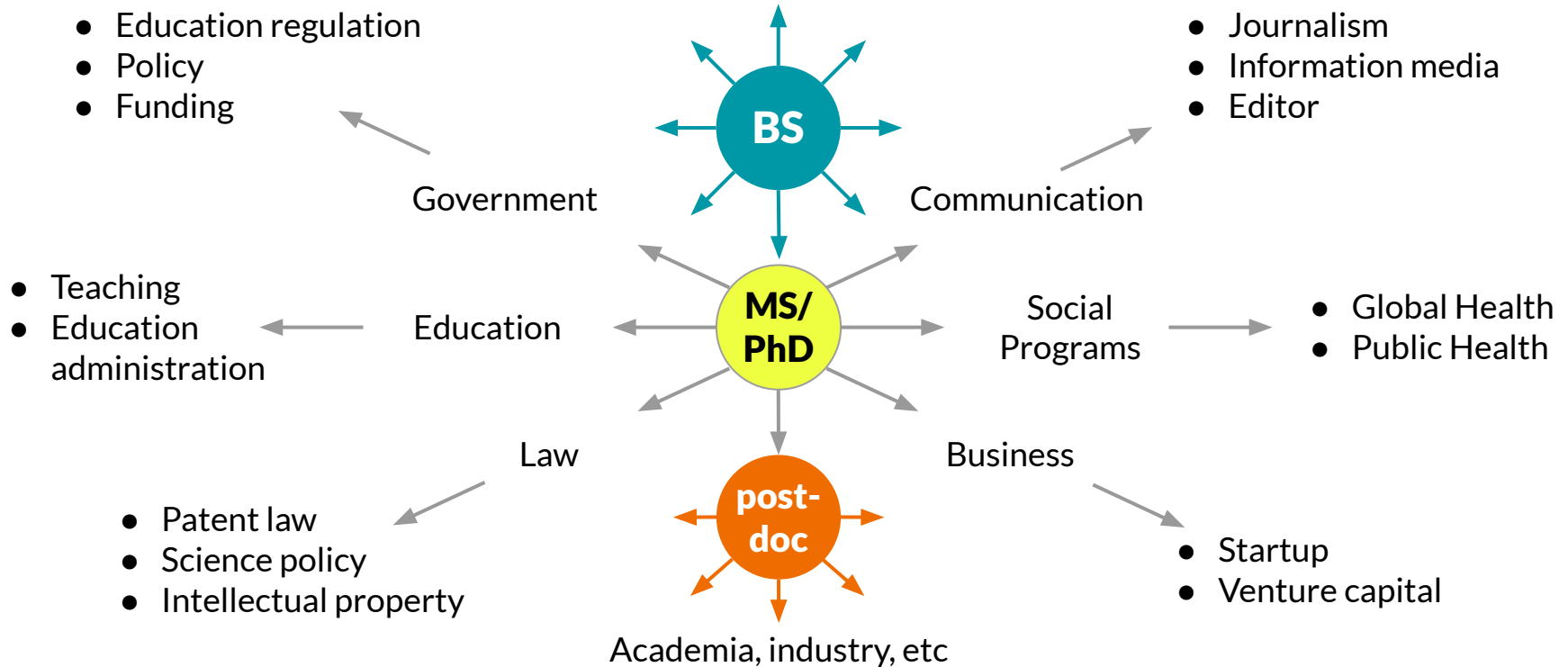
# Career paths of STEM PhDs

*UC Doctoral Alumni Survey - Life Sciences*

	1969-71	1979-81	1989-91	1999-01	2005-07
Tenure-track higher ed	49%	42%	44%	39%	21%
Non-tenure higher ed	17%	22%	22%	27%	42%
Private for-profit	21%	23%	20%	21%	23%
Govt, non-profit, other	9%	13%	14%	12%	14%
K-12 education	4%	1%	1%	1%	0%

# Career options for STEM PhDs

Keith Yamamoto (UCSF): Career "Hubs"





# Career options for STEM PhDs

## The Good News



**You have lots  
of options**

## The Bad News



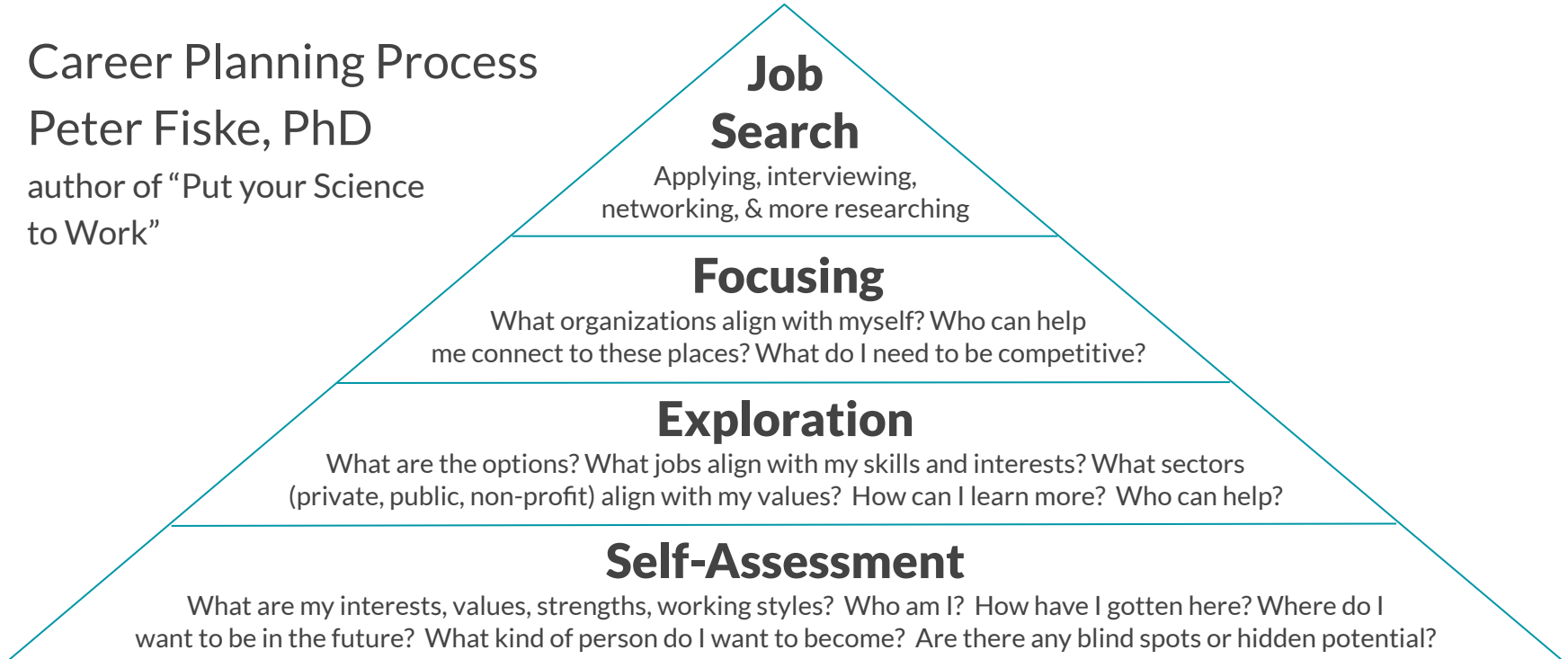
**You have lots  
of options**

# Overview of Career Development

## Career Planning Process

Peter Fiske, PhD

author of “Put your Science  
to Work”



# Overview of Career Development

Career Planning Process  
Peter Fiske, PhD  
author of “Put your Science  
to Work”



# Why is self-assessment so important?

Because accurately assessing yourself is really challenging



# Why is self-assessment so important?

Because accurately  
assessing yourself  
is really  
challenging

As the humorist Josh Billings once put it:

“ It ain't what you don't know that gets you into trouble. It's what you know for sure that just ain't so. ”



# Why is self-assessment so important?

Self-assessment is the starting point for any personal or professional development.

It's critical to gain metacognitive skills to understand how you communicate, make decisions, manage change, respond to stress and conflict, and work in teams.



## Tools for self-assessment:

Seek to enhance your metacognitive skills

- Self-assessment instruments:
  - IDP's, e.g. myIDP, ChemIDP, Imagine PhD
  - Myers-Briggs Type Indicators
  - StrengthsFinder
- Exercises:
  - journaling
  - Seven Success Stories
  - 40-Year Vision

# Resources, Tools, and Exercises

## Example from BASF



# Resources, Tools, and Exercises

## myIDP vs ChemIDP

- most STEM fields

Disciplines

- chemical fields

- grad students & postdocs

Target Audience

- grad students & postdocs

- AAAS, UCSF, etc
- 2012

Creators

- ACS
- 2016

- self-assessment
  - skills, values, interests
- career exploration
- set goals
- implement plan

Framework

- self-assessment
  - skills, values
- skill strengthening
- career exploration
- goal setting

## **Exercise: Seven Success Stories**

- **Write down seven stories of you succeeding**
  - when you believed you did something well
  - that were fulfilling and exciting
  - for which you were praised, etc
- **Think broadly from any arena: professional, personal, hobbies, etc**
- **Talk to close friends to confirm stories and fill gaps**
- **Look for patterns from the multiple stories**
  - What circumstances keep popping up?
  - How did you define “success” in these stories?
  - How did you handle challenges and failures?

## Exercise: Seven Success Stories

- This helps identify your preferred circumstances (internal & external), your values and motivation (how you define success)
- *Writing* these stories helps give wording for cover letters and emails to prospective employers
- *Verbally sharing* these stories with friends helps you prepare for job interviews
- This exercise won't necessarily tell you which specific job to pursue
- To learn more: GetFive website (URL in Workbook)

## Exercise: Seven Success Stories

- Breakout in pairs
  - 2 minutes to think and jot down some ideas
  - Share a single success story (2 min each)
  - ~8 min total in breakout rooms
  
- We'll debrief all together

## Exercise: Seven Success Stories

- Let's debrief all together
  - Did your story involve professional and/or personal circumstances?
  - Did your success story include an obstacle or failure?
  - Was it challenging to come up with a success story, or did too many pop up?
  - Were there any surprises or revelations?
  - How did you feel when sharing your success story?

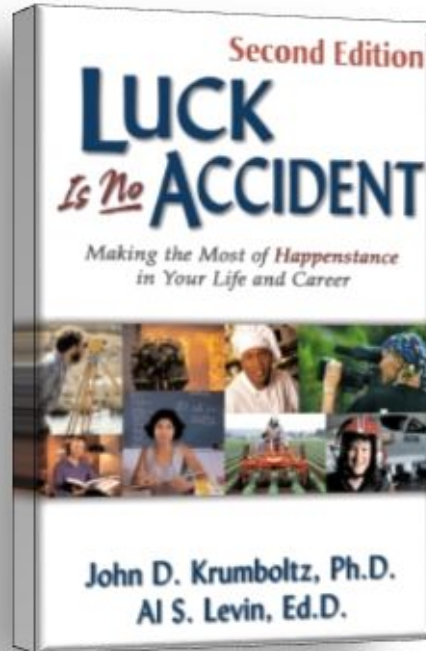
# Tangent: Steve's Story

Common threads:

- Enjoy working at an academic institution
- Enjoy working with students to help them succeed
- Developing and implementing strategies to help students
- Promoting efforts in diversity, inclusion, & equity

## More tips in career planning

Remember, we can't control many aspects of our career



### Happenstance Learning Theory

Unplanned events more often determine life and career choices than all the careful planning we do.

Krumboltz and Levin actively encourage readers to anticipate frequent changes, to take advantage of chance events, and to make the most of what life offers.

# More tips in career planning

## Seek to learn with a growth mindset

Carol Dweck

### Fixed

nature: ability is static

avoid challenges

gives up early

sees effort as fruitless

ignores useful criticism

threatened by others



### Growth

ability is developed: nurture

embrace challenges

persists

see it as a process

seeks & learns from criticism

inspired by others



## More tips in career planning

### Grow your mentoring network

Actively seek mentors, peers, and mentees

“Take home” exercises: (in Participant Workbook)

- “Identifying your needs and growing your network”
- Join NRMN



- Conduct an informational interview - see Science article

### Don't forget your values

- “What Do I Want to Be with My PhD? The Roles of Personal Values and Structural Dynamics in Shaping the Career Interests of Recent Biomedical Science PhD Graduates”
  - Kenneth Gibbs and Kimberly Griffin, *CBE - Life Sciences Education*, 2013.
- Values affirmation exercise
  - Self-affirmation interventions typically have people write about 2-3 core personal values, from a list of possible values
  - “The Psychology of Change: Self-Affirmation and Social Psychological Intervention” G Cohen and D Sherman, *Annu. Rev. Psychol.* 2014.

# The Journey





## What's your next step?

- Reflect and identify one step or goal that you will pursue in the next week that will help you move forward.
- Please share your step in the Participant Workbook

# Thanks for your participation!

## Q&A

