Are you thinking about getting a master's degree in science?

The following talk was presented to graduate students in the Vredenburg Lab at San Francisco State University, but is relevant to anyone considering a future in the field of ecology

By Tina Cheng, PhD (Edited by Vance Vredenburg, PhD)

What is Professional Development?

a.k.a. jobs a.k.a. careers a.k.a. the future a.k.a. \$\$\$

What do ecologists do?

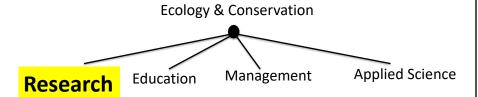
"Ecologists work in interesting places, both near and afar, questioning, investigating, finding answers... The knowledge you help build will be valued by other scientists, teachers, policy makers, citizens, and managers – for you will be helping society make sound decisions and contribute to our understanding of how nature works."

-Ecological Society of America (ESA) www.esa.org

What do ecologists do?

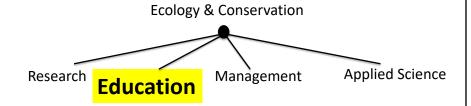


What do ecologists do?



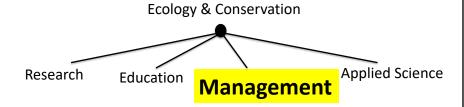
conduct research outdoors & the lab; ask theoretical and practical Q's investigated using scientific techniques

What do ecologists do?



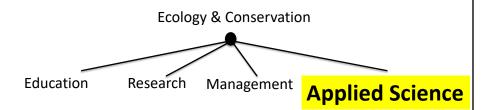
teach students &
interpret science to the general public;
educate students @ many levels,
communicate science as a science
writer, illustrator, film-maker

What do ecologists do?

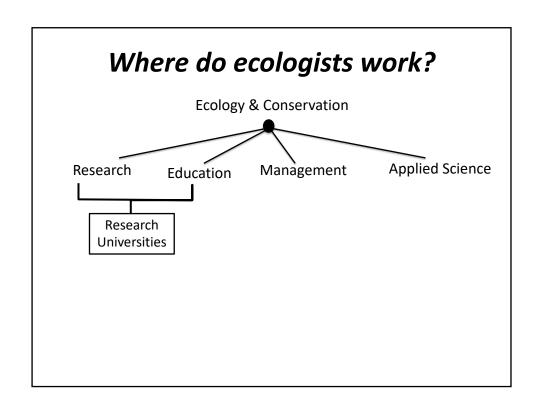


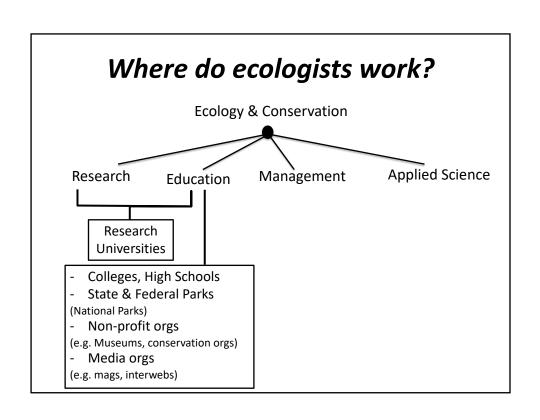
manage natural resources; monitoring, managing, restoring populations & ecosystems, enforcing environmental laws & regulations

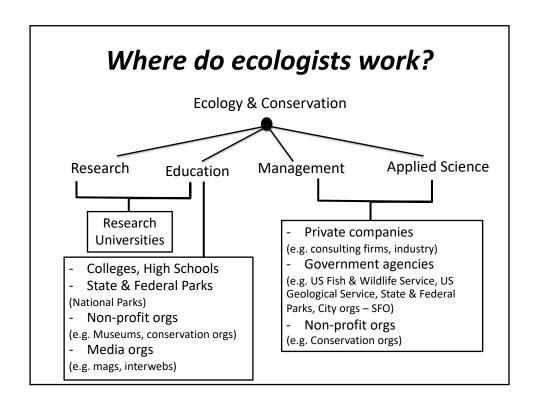
What do ecologists do?



apply scientific skills to solve environmental problems & answer other practical Q's; investigate ecological issues, write envtl. impact statements, design sustainable practices, apply scientific skills to answer Q's outside science







Ecological Society of America WHAT KINDS OF JOBS ARE THERE? DEGREE AND ASSOCIATE OF BACHELOR OF SCIENCE (BS) -MASTER OF DOCTOR OF NUMBER OF YEARS AFTER SCIENCE DEGREE Biology, Ecology, related disciplines SCIENCE (MS) HIGH SCHOOL 2 years 4-5 years Ecology PHILOSOPHY (PhD) -Ecology 8 - 14 years Ecology 6 - 8 years Post Doctoral Associate College or t University Professor Lecturer Research Associate/Scientist Research Administrator Professor at some two year colleges Research Assistant PRIVATE CONSULTING AND Field/F Environmental Consultant Environmental Planner or Laboratory Assistant Associate/Scientist Research Administrator Research Associate/Scientist Research Administrator Natural Resource Manager Manager Program Scientist Field Ecologist NON-GOVERNMENT Program Scientist Analyst Field Ecologist Research Administrator

Going down your career path

Step one: Find your passion.

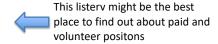
Look at job descriptions and gauge your excitement level.

Where?

(1) Job boards

Conservation Job Board EcoEmploy.com Ecological Society of America (ESA) Job Board EnvironmentalCareer.com Orion Magazine Grassroots Jobsource Internships.com (you need to do a relevant search)

(2) List serves – <u>Ecolog-L (ESA)</u> https://www.esa.org/membership/ecolog/



(3) Talk to people

Going down your career path

Step one: Find your passion.

Look at job descriptions and gauge your excitement level.

Step two: Explore & Get Experience.

Volunteer, do internships; train, build, hone your skills/qualifications.

How?

- (1) Apply for positions
 - Inside your university
 - · Outside university
- (1) Make your own position
 - Research professors what do they work on?
 Email them and/or their grad students
- (3) Networking
- (4) Continue your education (get a master's degree or a Phd)

Going down your career path

Step one: Find your passion.

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Step two: Explore & Get Experience.

Volunteer, do internships; train, build, hone your skills/qualifications. Get more education.

How to get into grad school

- (1) Get experience
- (2) Make yourself a competitive candidate
- Apply for grants
- Undergrad scholarships
- NSF Graduate Student Research Fellowship, ESA STAR, National Geo. Young Explorers Program
- Do research & be intellectually engaged (lab meetings, contribute to papers)
- (3) Network (go to conferences/meetings)

Consider joining a scientific society, you can get help deciding what to do in your career

THE WILDLIFE SOCIETY SAN FRANCISCO BAY AREA CHAPTER

Workshop/Professional Development Scholarship Application

Up to \$1000 reimbursement for a student or early career professional to attend The Wildlife Society Western Section's annual conference Santa Rosa, CA, February 6-9, 2018

INSTRUCTIONS: To qualify for a TWS S.F. Bay Area chapter workshop/professional development scholarship, please complete the following application in full.

Completed applications should be submitted to **Natalie Reeder** (ReederN@gmail.com), with the subject line "Western Section 2018 Conference Application", on or before the advertised submittal date: December 15, 2017.

Please include your proof of enrollment/graduation date as attachments, along with the application.

Please include your proof of enrollment/graduation date as attachments, along with the application. Submissions that are late, or do not follow this format, will not be considered.

To be eligible, applicants must be undergraduate or graduate students willing to show proof of enrollment (scanned student ID); or early career professionals willing to show proof of graduation date (scanned diploma or transcripts). Applicants do not need to be members of the San Francisco Bay Area Chapter at the time of the application, but must be members of the Western Section of The Wildlife Society at the time of registering for the conference, to take advantage of the member's registration.

Membership can be obtained here: http://tws-west.org/?page_id=101#join

Or consider attending attending a scientific meeting:

Ecological Society of America
American Society of Ichthyology and Herpetology
EcoHealth
Society for Conservation Biology
The Wildlife Society

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Going down your career path

How to get into grad school

Notes:

- GRE's are not that important (many programs no longer require).
- Grades are not that important (they still count of course!).
- Experience & recommendations will get you everywhere.
- 1. Apply for positions
- (1) Look for profs and labs you are interested in & write to them.
- (2) Look up postings for grad positions (e.g. Ecolog-L) and apply for them.
- 2. Apply for grants

NSF Graduate Student Research Fellowship, ESA STAR, National Geo. Young Explorers Program, Ford Foundation, Fulbright Scholarships

3. Try and try again

Don't be afraid of failure.

Imposter syndrome – fake it 'til you make it.

Amy Cuddy – Ted Talk (body language matters,

look it up)

Going down your career path

Step one: Find your passion.

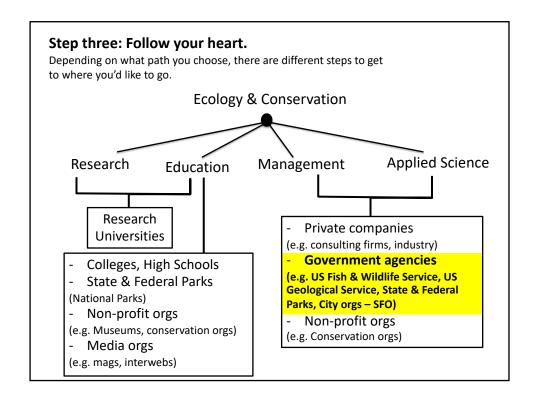
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Step two: Explore & Get Experience.

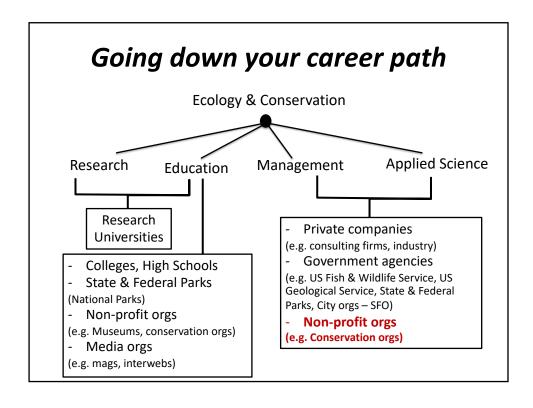
Volunteer, do internships; train, build, hone your skills/qualifications. Get more education.

Step three: Follow your heart.

Depending on what path you choose, there are different steps to get to where you'd like to go.







Non-profits! There are many



Check out: A guide for Environmental non-profits (Mother Jones magazine article)

https://www.motherjones.com/environment/2006/03/guide-environmental-non-profits/

