



CENTER FOR BIODIVERSITY AND CONSERVATION

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SCCS-2017 Careers in Conservation Science
Workshop Resource Packet

Thanks for attending our workshop! In this packet, you will find resources to help you navigate funding and mentoring opportunities. We also link you to some media resources from students, scientists, and professionals that are actively engaging in discussions on graduate studies and beyond.

Be sure to check out our Facebook page, “SCCS Careers in Conservation” to access or share resources with current and past participants.

Please feel free to contact us with any questions or thoughts about the workshop:

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I. Some Great Articles

Making the Most of an REU (a student's perspective)

<http://astrobites.org/2011/06/14/its-reu-season-heres-how-to-make-the-most-of-it/>

How to Get a Job in Conservation (and love your work)

<http://www.jamesborrell.com/how-to-get-a-job-in-conservation-and-love-your-work/>

So Long, and Thanks for the Ph.D.: How to Succeed in Graduate School

<http://www.cs.unc.edu/~azuma/hitch4.html>

10 Things You Should Know Before Starting a Ph.D.

<http://www.nextscientist.com/graduate-school-advice-series-starting-phd/>

How to Fully Fund your Ph.D.

<http://www.profellow.com/fellowships/how-to-fully-fund-your-phd/>

Why You Shouldn't Pursue a Ph.D.

<http://www.princetonreview.com/grad/why-you-shouldnt-pursue-a-phd.aspx>

II. Interesting Resources/Tools

Graphics for Conservation: How to Illustrate Your Story

<http://scalar.usc.edu/works/graphics-for-conservation/index>

CitSciScribe

<http://citsciscscribe.org/>

GlobalGiving

<https://www.globalgiving.org/nonprofits/>

Writing a Journal Article

<https://writingajournalarticle.wordpress.com/>

III. Courses/Trainings

Training: Conservation with an Online or Field Based Training

<http://www.doc.govt.nz/get-involved/training/>

Biodiversity Indicators

<https://www.conservationtraining.org/course/index.php?categoryid=43>

United for Wildlife Free Online Courses

<https://learn.unitedforwildlife.org/>

Environmental Science

<https://www.conted.ox.ac.uk/about/environmental-science>

Biological Diversity

<https://www.coursera.org/learn/biological-diversity>

Durrell Conservation Academy Courses

<https://www.durrell.org/wildlife/academy/courses/>

IV. Some Great Mentoring Resources for Under-represented Students

Institute for Broadening Participation: Pathways to Science. *Mentoring Manual.*

<http://www.pathwaystoscience.org/manual.aspx?sort=6#pagetop>

Entering Mentoring: A Seminar to Train a New Generation of Scientists.

The Wisconsin Program for Scientific Teaching.

http://www.hhmi.org/sites/default/files/Educational%20Materials/Lab%20Management/entering_mentoring.pdf

MentorNet: e-Mentoring for diversity in engineering and science

<http://www.mentornet.net/>

Center for Diversity & the Environment

<http://cdeinspires.org/>

ESA SEEDS: Diverse People for a Diverse Science

<http://www.esa.org/seeds/>

McNair Scholars Program

<http://mcnairscholars.com/>

Minority Postdoc Web Portal

<http://www.minoritypostdoc.org/>

The Leadership Alliance

<http://www.theleadershipalliance.org/>

National Center for Faculty Development and Diversity

<http://www.facultydiversity.org/>

Green 2.0: Green Diversity Initiative

<http://www.diversegreen.org/leadership/#>

Roger Arliner Young (RAY) Marine Conservation Program

<http://rayconservationfellows.org>

Doris Duke Conservation Scholars

<https://conservationscholars.ucsc.edu/apply/> <https://conbio.org/publications/scb-news-blog/doris-duke-conservation-scholars-program>

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Summer Internship for Indigenous Peoples in Genomics Workshop-

<http://sing.igb.illinois.edu/>

Power Shift

<https://powershift.org/>

InDEEP Initiative

<https://www.indeepinitiative.org/news>

III. Funding Resources

Undergraduate Students Only

Gates Millennium Scholarship - covers unmet financial need and aid throughout undergraduate education; leadership and development program through graduation

<http://www.gmsp.org>

Louis Stokes Alliance for Minority Participation (LSAMP) & Bridge to the Doctorate -

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13646

National Science Foundation Research Experience for Undergraduates – funds undergraduate research at a number of institutions across the U.S. and a few abroad:

<http://www.nsf.gov/crssprgm/reu/>

Doris Duke Conservation Scholars Program is a multi-year research and mentoring program run at several universities: the University of Washington, Northern Arizona University, the University of Florida, and several others. Google the program name to find all your options!

University of Washington: <http://www.coenv.washington.edu/conservationscholars/>

University of Florida: <http://programs.ifas.ufl.edu/DDCSP/>

Northern Arizona University: <http://nau.edu/LCI/DDCSP/>

McNair Scholars Program – funds undergraduate research, conference attendance, university visits, and graduate school applications for students from underrepresented groups at select universities

<http://mcnairscholars.com/>

Udall Scholarship for Environmental Studies - 50 scholarships of up to \$5000 for sophomore and junior undergraduates with demonstrated commitment to environment or tribal public policy

<http://udall.gov>

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Women Divers Hall of Fame Scholarships and Training Grants - Multiple scholarships that support research, internships, or tuition and fees related to conservation, marine biology, underwater archaeology, information technology, marine education, and journalism, graphic arts, or photography

<http://www.wdhof.org/>

Beneath the Sea Marine Careers Scholarships - Multiple scholarships that support diving training and education, as well as conservation and biological studies

<http://www.beneaththesea.org/scholarships/44619>

Beinecke Scholarship - for college juniors applying to graduate school. Successful applicants receive \$4000 upon entering graduate school and a total of \$30,000 while attending

<http://fdnweb.org/beinecke/>

Hudson River Human Diversity Network For Environmental Opportunities (HREON)-

Internships and job opportunities at all levels!

<http://www.esf.edu/nfi/diversity/>

Roger Arliner Young (RAY) Marine Conservation Program- a program for recent undergraduates that supports mainstream environmental organizations in increasing and providing supported career pathways for people of color within the field

<http://rayconservationfellows.org>

Graduate Students Only

NSF Graduate Research Fellowship - funds around \$30,000 of living expenses and \$12,000 towards tuition, requires short research proposal and personal statement

<https://www.nsfgrfp.org>

Barry M. Goldwater Scholarship - <http://www.act.org/goldwater/>

The Mindlin Foundation Undergraduate Mentored Research Program- This program is intended to support promising undergraduates in the sciences or engineering, in a mentored research project that introduces the student to academic research.

<https://mindlinfoundation.org/funding-opportunities/undergraduate-research-rfa/>

American Indian Graduate Center Scholarships- the Nation's oldest and largest provider of scholarship and fellowships to American Indian and Alaska Native graduate and professional students.

<http://www.aigcs.org/scholarships/>

Pathways to Science- here is a link with lots of scholarship and fellowship opportunities at the

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Master's level:

[http://pathwaystoscience.org/programs.aspx?u=GradMasters_Graduate+Students+\(Masters\)&r=&s=&i=&link=&sm=&sd=&sy=&endm=&endd=&endy=&sa=either&p=YesPortable&o=either&c=either&f=&dd=&ft=&submit=y&adv=adv](http://pathwaystoscience.org/programs.aspx?u=GradMasters_Graduate+Students+(Masters)&r=&s=&i=&link=&sm=&sd=&sy=&endm=&endd=&endy=&sa=either&p=YesPortable&o=either&c=either&f=&dd=&ft=&submit=y&adv=adv)

Pathways to Science- here is a link with lots of scholarship and fellowship opportunities at the Doctorate level

[http://pathwaystoscience.org/programs.aspx?u=GradPhDs_Graduate+Students+\(PhD\)&r=&s=&i=&link=&sm=&sd=&sy=&endm=&endd=&endy=&sa=either&p=YesPortable&o=either&c=eithe&r=&f=&dd=&ft=&submit=y&adv=adv](http://pathwaystoscience.org/programs.aspx?u=GradPhDs_Graduate+Students+(PhD)&r=&s=&i=&link=&sm=&sd=&sy=&endm=&endd=&endy=&sa=either&p=YesPortable&o=either&c=eithe&r=&f=&dd=&ft=&submit=y&adv=adv)

Russell E. Train Fellowships- WWF supports individuals pursuing a master's or doctoral degree in conservation

<http://www.worldwildlife.org/projects/russell-e-train-fellowships>

Commonwealth Scholarships- for Master's and PhD study in the UK are offered for citizens of developing Commonwealth countries.

<http://cscuk.dfid.gov.uk/apply/shared-scholarships/info-candidates/>

Global Trees Campaign Student Grant- for MSc students undertaking research projects focused on the in situ conservation of a threatened tree species

<http://globaltrees.org/news-blog/global-trees-campaign-launches-grant-scheme-for-masters-students/>

BIODIV Scholarships- for the BIODIV doctoral program

<http://biodiv.pt/call-2016-17>

MPhil in Conservation Leadership- a full-time, 11-month, masters course, aimed at graduates of leadership potential with at least three to five years of relevant experience

<http://www.geog.cam.ac.uk/graduate/mphil/conservation/>

David Suzuki Fellowship- empowers emerging scholars to tackle complex environmental problems in their last year of a PhD program or in a postdoc

http://fellowships.davidsuzuki.org/?utm_campaign=suzukiFellowships-launchVideo-en-2nov2016&utm_source=twitter&utm_medium=tweet-video

Ford Foundation Fellowship Programs- the Ford Foundation seeks to increase the diversity of the nation's college and university faculties by increasing their ethnic and racial diversity, to maximize the educational benefits of diversity, and to increase the number of professors who can and will use diversity as a resource for enriching the education of all students

<http://sites.nationalacademies.org/pga/fordfellowships/index.htm>

Both Undergraduate & Graduate Students

Always check with your institution! **University Awards** can provide up-to-full funding for your course of study!

All students should also check out STEM resources for underrepresented students, provided by **Pathways to Science**. There are a variety of scholarships, internship opportunities, and helpful tips on how to apply. <http://www.pathwaystoscience.org/index.aspx>

The Explorers Club Grants - supports students working on a research project under a faculty mentor.

http://www.explorers.org/index.php/expeditions/funding/expedition_grants

Boren Awards for International Study - up to \$20,000 for study & research abroad in languages of critical interest to U.S. national security

<http://www.borenawards.org>

Foreign Language and Area Studies Fellowship - tuition and living expenses scholarships of up to \$15,000 for undergraduate students interested in pursuing language and area studies

<http://www2.ed.gov/programs/iegpsflasf/index.html>

The Marshall Scholarship & Fellowship - funds study and living expenses at a UK institution -- highly competitive, but highly prestigious

<http://www.marshallscholarship.org/>

The Mitchell Scholarship & Fellowship - funds study and living expenses at an Irish institution

<http://www.us-irelandalliance.org/>

USFWS Directorate Resource Assistant Fellows Program- provides a fellowship opportunity for undergraduate and graduate students to participate in a rigorous internship program with the U.S. Fish and Wildlife Service

<https://www.fws.gov/workforwildlife/dfp.html>

Conservation Leadership Programme Team Awards- funding \$12,500 to teams of early-career conservationists to conduct projects on species that are categorised as Data Deficient, Vulnerable, Endangered or Critically Endangered on the IUCN Red List

<http://www.conservationleadershipprogramme.org/news/call-applications-clp-team-awards-2017/>

EDGE Fellow- provides structured training to early-career conservation biologists to undertake an applied research or conservation project on a local EDGE species

http://edgeofexistence.org/conservation/become_fellow.php

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Latino Heritage Intern-The Latino Heritage Intern Program is a component of an overarching service-wide strategy to address and correct the lack of Latino employment opportunities in the National Park Service

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

Mosaic Internship-Science internship that focuses on career exploration and building fundamental natural resource science skills

<http://www.mosaicsinscience.org/internships/>

Post-Doctoral

Collegiate Postdoctoral Fellowship Program - a program aimed at supporting promising scholars who are committed to diversity in the academy and to prepare them for possible tenure track positions at University of Michigan's College of Literature, Science, and the Arts (LSA). Applications for study in any of the field at LSA are welcome!

<http://lsa.umich.edu/lsa/about/diversity--equity-and-inclusion/lsa-collegiate-postdoctoral-fellowship-program.html>

National Science Foundation Postdoctoral Fellowships

https://www.nsf.gov/funding/education.jsp?fund_type=3

AAAS Science & Tech Policy Fellowships

<https://www.aaas.org/program/science-technology-policy-fellowships>

SCB's David H. Smith Conservation Research Fellowships

<http://conbio.org/mini-sites/smith-fellows>

National Postdoctoral Association

<http://www.nationalpostdoc.org/>

International Postdoc Survival Guide

<http://www.nationalpostdoc.org/?page=SurvivalGuide>

National Center for Faculty Development and Diversity

<http://www.facultydiversity.org/>

Willburforce Fellowship- Year-long program providing leadership and science communication training, along with coaching and support, to scientists from a wide range of affiliations, career stages, and disciplines.

<http://www.wilburforce.org/grants/fellowship/>

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Environmental Fellows Program-to enable recent doctorate recipients to use and expand Harvard's extraordinary resources to tackle complex environmental problems

<http://environment.harvard.edu/environmental-fellows-program>

International Scholarship Programme- for postgraduate studies to outstanding students from select developing countries

<http://cscuk.dfid.gov.uk/apply/shared-scholarships/info-candidates/>

UMBC's Postdoctoral Fellowship-2-year in residence fellowship that supports promising scholars who are committed to diversity in the academy and to prepare those scholars for possible tenure track appointments at UMBC.

<http://facultydiversity.umbc.edu/postdocs/>

David Suzuki Fellowship- empowers emerging scholars to tackle complex environmental problems in their last year of a PhD program or in a postdoc.

http://fellowships.davidsuzuki.org/?utm_campaign=suzukiFellowships-launchVideo-en-2nov2016&utm_source=twitter&utm_medium=tweet-video

Grants

CBOT Endangered Species Fund

<https://www.czs.org/Chicago-Zoological-Society/Conservation-Leadership/Field-Work/CBOT-Endangered-Species-Fund.aspx>

IUCN Small Grants

<https://portals.iucn.org/best/?q=node%2F939>

TWAS Grants for Scientific Meetings Held in Developing Countries

<https://twas.org/opportunity/twas-grants-scientific-meetings-held-developing-countries>

Reforestation Grants

<https://www.worldwildlife.org/projects/reforestation-grants>

Whitley Awards

<http://whitleyaward.org/apply-for-conservation-funding/how-to-apply/>

ARCOS' Small Grant Programme

<http://arcosnetwork.org/index.php/en/small-grants.html>

Holohil Grant Programs

<http://www.holohil.com/grant-program/>

FASEB Excellence in Science Award

http://www.faseb.org/About-FASEB/Awards/Excellence-in-Science-Award.aspx?utm_content=buffer917b7&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer

Women in Research Travel Grant Competition

https://hub.wiley.com/community/society-resources/pages/resources-for-societies?elq_mid=15878&elq_cid=3931948

IV. Some Great blogs and other social media

Graduate School and Academia

#HOPEJAHRENSURECANWRITE about things.

<http://hopejahrensurecanwrite.com/>

How Not to Suck at Graduate School

<https://www.mcgill.ca/connections/connectionslab/blogs>

Tenure, She Wrote

<http://tenureshewrote.wordpress.com/>

The Professor is In

<http://theprofessorisin.com/pearlsofwisdom/>

Education and Science

<http://isisthescientist.blogspot.com>

Women in Science and Engineering: 12 Must-read Bloggers

http://sites.nationalacademies.org/PGA/cwsem/PGA_050396

[Women in Science](#)

STEMINIST

<http://stemminist.com/>

VanguardSTEM - Conversations with Women of Color in STEM

<http://vanguardstem.com/>

Pipettes and Paintbrushes- The gender pay gap and academia

<https://sowhataboutseaweed.wordpress.com/tag/gender-equality/>

Lack of Diversity in STEM is Dangerous for our Students

http://www.huffingtonpost.com/natalia-chabebe/lack-of-diversity-in-stem_b_4256900.html

Under-represented Groups/Diversity in Science

Scientific American- The Urban Scientist

<http://blogs.scientificamerican.com/urban-scientist/>

Minority Postdoc

<http://www.minoritypostdoc.org/>

Diversity in Science carnival

<http://www.minoritypostdoc.org/view/bloggers.html#carnival>

Outdoor Afro

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

Fairer Science Weblog

<http://www.fairerscience.org/fs-blogs/index.html>

The Hill-Conservation Efforts Must Reckon with Diversity

<http://thehill.com/blogs/pundits-blog/energy-environment/349694-conservation-efforts-must-reckon-with-diversity-and>

Diversity: A Nature & Scientific American Special Issue

<http://www.nature.com/news/diversity-1.15913>

Conservation Zines

https://issuu.com/osi_aplaceforlife/stacks/7bedba579129467693a2c935ee88640f

Xojnae- Where Are All The Disabled Scientists?

<http://www.xojane.com/issues/disabled-people-in-science-technology-math-engineering-fields>

LGBTQ

National Organization of Gay and Lesbian Scientists and Technical Professionals Inc.

<http://www.noglstp.org/>

Orion Magazine- How to Queer Ecology: One Goose at a Time

<http://www.orionmagazine.org/index.php/articles/article/6166>

Diversity in Science Carnival- “It’s here! The DiS Carnival #17 - PRIDE!”

<http://scientopia.org/blogs/gertyz/2012/07/05/its-here-the-dis-pride-carnival/>

Denim and Tweed- Diversity in Science Carnival: Pride Month 2011

<http://www.denimandtweed.com/2011/06/diversity-in-science-carnival-pride.html>

Gravity's Rainbow- "Where are the other queer ecologists?"

<http://sarcozona.org/2011/06/23/where-are-the-other-queer-ecologists/>

Boingboing- Coming out in the Sciences Part II: Your stories, today

<http://boingboing.net/2010/10/11/coming-out-in-the-sc-1.html>

Twitter

Increasingly, conservation scientists are joining Twitter to discuss and promote their research and even advertise opportunities. Many of the science bloggers listed above are on twitter and you might even find that authors on some of your favorite/most cited scientific articles are as well. In addition to "following", there are other ways to network and engage with conservation scientists on Twitter. Groups of students, professors, and professionals are fostering dialogue around issues in the field through Twitter hashtag (#) conversations, allowing for a more inclusive dialogue that only requires a Twitter account! Examples include: #BLACKandSTEM #WomenInScience #POCinScience #VanguardSTEM #DiversifyEEB