

## SHERSINGH JOSEPH TUMBER-DÁVILA

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### CURRENT APPOINTMENT

#### LTER POSTDOCTORAL FELLOW

Sept 2021-Present

Harvard Forest, Harvard University

Supervisor: Jonathan Thompson

Modeling the future risk to Forest carbon due to ecological disturbances, climate change, and policy decisions.

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### EDUCATION

#### PH.D. ENVIRONMENTAL EARTH SYSTEM SCIENCE

July 2021

Stanford University, Stanford, CA

**Committee:** Robert B. Jackson\* (PI), Scott Fendorf\* (chair), Alexandra G. Konings\*, H. Jochen Schenk<sup>†</sup>

\*Stanford University, <sup>†</sup>California State University Fullerton

**Dissertation Topic:** Research focuses on unearthing the dynamics governing the architecture of plant root systems to inform our understanding of the terrestrial carbon cycle. I analyzed the allometry and distribution of plant root systems via three unique approaches: 1) created the largest database of plant root system size and shape; 2) developed a novel plant image analysis software to determine the volumetric allometry of plant growth above- and below-ground; 3) used stable isotopes to understand plant resource uptake strategies under resource limitation, drought, and community competition.

#### M.S. EARTH SYSTEM SCIENCE (GPA 3.855)

Jan 2019

Stanford University, Stanford, CA

Advisor: Rob Jackson

**Relevant Coursework:** Fundamentals of Modeling (ESS211); Remote Sensing of Land (ESS262);

Advanced Statistical Methods for Earth System Analysis (ESS260);

Analyzing Land Use in a Globalized World (ESS270); Advanced Geographic Information Systems (ESS165)

#### B.S. ENVIRONMENTAL CONSERVATION AND SUSTAINABILITY, MINOR IN FORESTRY

June 2015

University of New Hampshire, Durham, NH

Presidential Honor Scholar

## ACADEMIC AWARDS & GRANTS

- |   |             |                                      |             |
|---|-------------|--------------------------------------|-------------|
| ▪ <b>UNH Diversity Hall of Fame</b>                     |             | ▪ C.F. Marble Scholarship            | 2013 & 2014 |
| ▪ <b>Alumni Award</b>                                   | <b>2022</b> | ▪ Farrington Forestry Scholar        | 2013 & 2014 |
| ▪ Culture Lab innovation Fund Grant                     | 2022        | ▪ McNair Scholars Fellowship         | 2013        |
| ▪ DEI Special Service Award                             | 2021        | ▪ Rolf N. B. Haugen Memorial Fund    | 2013        |
| ▪ <b>Rising Environmental Leader 2019 &amp; 2020</b>    |             | ▪ Collins Fund Scholarship           | 2013        |
| ▪ Diversity Innovation Fund Grant                       | 2019        | ▪ Albert Brown Scholarship           | 2012        |
| ▪ Certificate for Outstanding Achievement in Mentorship | 2018        | ▪ Lloyd Hawkensen Fund Scholarship   | 2012        |
| ▪ <b>NSF Graduate Research Fellow</b>                   | <b>2017</b> | ▪ University Honor's Program         | 2011        |
| ▪ <b>Ford Foundation Predoctoral Fellow 2017</b>        |             | ▪ Dr. Roger Beattie Honor Roll       | 2011        |
| ▪ Ford Foundation Honorable Mention                     | 2016        | ▪ Doyle GCF Scholarship              | 2011        |
| ▪ <b>EDGE-STEM Fellowship</b>                           | <b>2015</b> | ▪ JD Miller Memorial Scholarship     | 2011        |
| ▪ Dean's Scholarship                                    | 2011- 2015  | ▪ DeSantis Memorial Scholarship      | 2011        |
| ▪ <b>Udall Fellowship</b>                               | <b>2014</b> | ▪ LaurelWood Garden Club Scholarship | 2011        |
| ▪ Stanford SURGE Fellowship                             | 2014        | ▪ LHS Alumni Scholarship             | 2011        |
| ▪ W. Emil Forman Award                                  | 2014        | ▪ Leon "Huck" Hannigan Award         | 2011        |
|   |             | ▪ Priscilla Eisner Scholarship       | 2011        |

## PUBLICATIONS & SUBMITTED MANUSCRIPTS

- Stocker BD, **Tumber-Dávila SJ**, Konings AG, Anderson MB, Hain C, Jackson RB. Global patterns of water storage in the rooting zones of vegetation. *Nature Geoscience*. 2023. <https://doi.org/10.1038/s41561-023-01125-2>
- Cheng, SJ, Gaynor KM, Moore AC, Darragh K, Estien CO, Hammond JW, Mills KL, Lawrence C, Baiz MD, Khadempour L, McCary MA, Ignace D, Rice MM, **Tumber-Dávila SJ**, Smith JA. Championing inclusive terminology in ecology and evolution. *Trends in Ecology & Evolution*. 2023. <https://doi.org/10.1016/j.tree.2022.12.011>
- Feldman A, Gianotti D, Dong J, Akbar R, Crow W, McColl K, Nippert J, **Tumber-Dávila SJ**, Holbrook NM, Rockwell F, Scott R. Remotely Sensed Soil Moisture Can Capture Dynamics Relevant to Plant Water Uptake. *Water Resources Research*. 2023. e2022WR033814. <https://doi.org/10.1029/2022wr033814>
- Tumber-Dávila, SJ**, Schenk, HJ, Du, E, Jackson, RB. Plant sizes and shapes above- and belowground and their interactions with climate. *New Phytologist*. 2022. 235: 1032-1056. <https://doi.org/10.1111/nph.18031>
- Tumber-Dávila SJ**, Malhotra A. Fast plants in deep water: introducing the whole-soil column perspective. *New Phytologist*. 2020. Jan;225(1):7-9. <https://doi.org/10.1111/nph.16302>
- Quimette AP, Ollinger SV, Lepine LC, Stephens RB, Rowe RJ, Vadeboncoeur MA, **Tumber-Dávila SJ**, Hobbie EA. Accounting for carbon flux to mycorrhizal fungi may resolve discrepancies in forest carbon budgets. *Ecosystems*. 2019. Sep;16:1-5. <https://doi.org/10.1007/s10021-019-00440-3>

Lu M, Wang S, Malhotra A, **Tumber-Dávila SJ**, Weintraub-Leff S, McCormack L, Wang XT, Jackson RB. A continental scale analysis reveals widespread root bimodality. bioRxiv preprint doi: <https://doi.org/10.1101/2022.09.14.507823> (In review)

Malhotra A, **Tumber-Dávila SJ**, Abramoff R, Hanson PJ, Harden JW, Hicks-Pries C, Lu D, Norby R, Riccuito D, Sihi D, Sulman B, Thornton P, Walker A, Werbin Z\*, Jackson RB, Iversen CM. The persistence of root carbon in soil: a review of data and modeling gaps. (In review)

## **SELECTED PUBLICATIONS IN PREPARATION**

**Tumber-Dávila, SJ**, Ouimette, AP, Vadeboncouer, MA, Lu, M, Asbjornsen, H, Ollinger, SV, Jackson, RB. The root system distributions and water uptake strategies of codominant trees in a northern temperate forest undergoing prolonged drought stress. (In Prep)

**Tumber-Dávila, SJ**, Schenk, HJ, Lu, F, Jackson, RB. The above- to belowground volume and biomass allometry of woody plants. (In Prep)

Malhotra A, JA Moore, S Weintraub, K Georgiou, A Asefaw-Berhe, S Billings, M-A de Graaff, JM Fraterrigo, S Grandy, E Kyker-Snowman, M Lu, C Meier, D Pierson, **SJ Tumber-Dávila**, K Lajtha, WR Wieder, RB Jackson. Root and soil carbon relationships across continental scales. (In Prep)

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## **PRIOR RESEARCH EXPERIENCE**

**Graduate Student Research Fellow** Fall 2015-Summer 2021

Jackson Lab, Stanford University Earth System Science Department, Stanford, CA

Supervisor: Robert B. Jackson

Support from the NSF GRFP, Ford Foundation Predoctoral Fellowship, and EDGE-STEM Fellowship

Researcher in the Jackson lab, focusing on understanding the size and shape of plant root systems, and plant interactions with their environment and climate. We have found that roots show considerable plasticity across global climates, and we enhance the ability of earth systems modelers to correctly predict root system dynamics.

**Summer Undergraduate Research in Geosciences and Engineering (SURGE) Fellow** Summer 2014

The Welander Lab at the Stanford University School of Earth

Supervisors: Paula Welander, Laura Meredith, and Marco Keiluweit

Conducted independent research on the effects that increased atmospheric hydrogen concentrations will have on carbon decomposition by hydrogen consuming microbes.

**Invasive Species Internship** Summer 2014

The Nature Conservancy, Great Bay Office, Newmarket, NH

Supervisor: Joanne S. Glode

Measured the ingrowth of invasive species at the Lubberland Creek Preserve.  
Monitored, actively controlled, and mapped using GIS the locations of invasive plant species.  
Learned the everyday responsibilities of conservation professionals.

## **RESEARCH EXPERIENCE (CONTINUED)**

### **McNair Research Fellowship**

Fall 2012-Spring 2015

Quantifying Carbon Allocation to and Biomass of Mycorrhizal Fungi Across a Nitrogen and Tree Species Gradient in a northern temperate forest

Supervisors: Andrew P. Ouimette, Lucie C. Lepine, Matthew A. Vadeboncoeur, Scott V. Ollinger

Federal TRIO program with the goal of increasing graduate degree awards for students from underrepresented segments of society.

Used isotopes to quantify carbon allocation to mycorrhizal fungi.

Conducted an ingrowth study at Bartlett Experimental Forest using ergosterol as a biomarker

Allows for a comprehensive understand of the entire forest carbon budget and Total Belowground Carbon Allocation (TBCA).

Found that mycorrhizae comprise of much of the ecosystem carbon budget which was missing from top-down estimates.

### **Terrestrial Ecosystems Analysis Lab Researcher**

Winter 2012- Spring 2015

University of New Hampshire Earth Systems Research Center, Durham, NH

Supervisors: Scott V. Ollinger & Andrew P. Ouimette

Completed numerous research projects and often led a team of five or more.

Led fieldwork expeditions in Durham and the White Mountains of New Hampshire.

Used the following three methods: Camera Point, Hemiview and Lai 2000, to correlate leaf area index with remotely sensed data.

Analyzed stable isotopes and the ingrowth of roots and mycorrhizae to understand the cycling of carbon and nitrogen in temperate ecosystems.

### **Mass Spectrometry Lab Technician**

Winter 2012- Fall 2013

University of New Hampshire Stable Isotope Laboratory, Durham, NH

Supervisors: Erik A. Hobbie & Andrew P. Ouimette

Ran Mass Spec Analysis and analyzed isotope results.

Oversaw and managed the lab including machine maintenance.

Worked with clients from numerous institutions and agencies.

### **NH Agricultural Experiment Station Field Technician**

Fall 2011

College of Life Sciences and Agriculture, Durham, NH

Supervisors: Daniel J. Hocking & Kimberly J. Babbitt

Facilitated research of the effects that red-backed salamanders have on soil and ecosystem services.

Worked in a team to install, build, and map, the environments in which the research was be conducted. The experiment quantified the effect that salamanders had on litter and wood composition, potential nitrogen mineralization, nitrification rates, acorn germination, and foliar insect damage. The study found that the impact of red-back salamanders on ecosystem services are context dependent.

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## TEACHING EXPERIENCE

**Diversity and Inclusion in the Geosciences (DIG; EARTH 203) Co-instructor** Winter 2020 & 2021  
Stanford University, School of EARTH, Stanford, CA

This course prepares students to address the participation and inclusion challenges uniquely faced in the geosciences. By bringing awareness to specific tools and tactics that improve learning and working environments, we hope to help others develop inclusive environments where diversity is valued and celebrated.

Manage the @StanfordDIG network to facilitate connections and share news on JDEI topics.

**MESA Lead Instructor** Summer 2019-Summer 2020  
MESA-College Track East Palo Alto, CA

In Collaboration with the Mathematics, Engineering, Science Achievement (MESA) program at UC San Francisco, I teach 10<sup>th</sup> grade College Track students about engineering and mathematics using hands-on project learning to get the students ACT ready, and learn about the future of the STEM workforce for underrepresented minority (URM) students.

**Teaching Assistant** Spring 2016 & Spring 2019  
Stanford University Earth Systems Department, Stanford, CA

Teaching Assistant for The Control of Nature (ESS 107/ EARTHSYS 107)

The course introduces the science behind ways people alter and engineer the earth, critically examining the positive and negative consequences.

**Program Assistant** Summer 2016  
Stanford Earth Young Investigators High School Internship Program, Stanford, CA

Mentored a cohort of over 40 interns helping with research interests and college planning.

Managed a blog describing intern experiences and projects throughout the program.

**Stanford SURGE Fellowship Program** Summer 2014-2021  
Stanford University Environmental Earth System Science Department, Stanford, CA

**Program Assistant** Summer 2018

Managed a cohort of four scholars, teaching presentation, writing, networking, and graduate school preparation skills.

Facilitated program wide events and excursions.

**Research Mentor** in the Jackson Lab Summer 2017

Designed a project for a SURGE Fellow on estimating the biomass of dead and live trees in the southern Sierra Mountains.

Worked daily with mentee on methodology, scientific writing, and professional development.

**Volunteer**, organized and led field experiences for undergraduate scholars. Summer 2016

**SURGE Fellow** in the Welander Lab Summer 2014

**Undergraduate Teaching Assistant** Spring 2013

University of New Hampshire Department of Plant Biology, Durham, NH

Assisted in teaching a lab section of Introduction to Plant Biology.

Graded assignments, created lesson plans, and lectured.

Monitored students to help with coursework and approved projects.

**LEADERSHIP, MENTORING, AND SERVICE  
(INCLUDING DIVERSITY, EQUITY, INCLUSION, JUSTICE, BELONGING+)**

- To Be Seen**, Harvard University and Nipmuc Collaborative Spring 2022-Present  
Aimed at acknowledging Indigenous land in green spaces  
Led a successful Culture Lab Innovation Fund Grant Proposal (\$15,000)  
<https://edib.harvard.edu/be-seen-acknowledging-indigenous-land-green-spaces>
- DEI Committee**, Long-Term Ecological Research (LTER) Network Fall 2021-Present  
Co-Chair Community Building Working Group  
Harvard Forest LTER Site-Representative  
Hosted LTER Community Engagement Webinar-4/28/2022
- Code of Conduct Writing Group**, Harvard Forest Fall 2021-Present  
Sub-committee member responsible for writing Harvard Forest Code of Conduct  
Published in Fall 2022: <https://shar.es/af6XrH>
- DEI Committee**, Harvard Forest Fall 2021-Present  
DEI Committee Member
- Yardstick PBC**, Soil Carbon Measurement Startup Spring 2021-Present  
Paid scientific consultant focusing on providing trainings and protocols for measuring soil carbon.
- Con Ciencia en las Américas**, broadcasted via YouTube Live 2020-Present  
Founded a Spanish Language bi-weekly webinar series focused on sharing science to a broad Spanish speaking audience and highlighting scientists throughout Latin America in collaboration with the scientists at Antarctica.CL.
- Pertenecer/You Belong**, Stanford School of Earth 2017-Present  
Found and run a youth program aimed at exposing youth in underserved communities of the bay area and beyond to careers in academia and environmental sciences  
Have run 44 programs (to date) serving thousands of attendees in partnership with local organizations and public schools.  
Awarded the Diversity Innovation Fund Grant in acknowledgement of our efforts to show young students that they belong at places like Stanford.
- Canopy**, Urban Forestry Stewardship and Advocacy Organization Fall 2016-Present  
Member of the Education Committee  
Education Leader for School Outreach  
Volunteer for Teen Urban Forester (TUFs) Program  
Host and Facilitator workshops on Forest Ecology.  
Consultant for data collection and annual surveys.

**LEADERSHIP, MENTORING, AND SERVICE (CONTINUED)**

<b>Rising Environmental Leaders Program</b> , Stanford Woods Institute	2020 & 2021
The Stanford Woods Institute is working to develop the next generation of environmental leaders. Honed my leadership and communications skills to maximize the impact of my research. Participants also are extended professional development and networking opportunities including introductions to global leaders from government, NGOs, think tanks and business.	
<b>Vice Provost for Graduate Education</b> , Stanford University	Fall 2017-Summer 2021
Enhancing Diversity in Graduate Education Mentor for two graduate students. Volunteer on panels to support the graduate student experience.	
<b>GeoKids</b> , Earth Science Program for Elementary Schools	Fall 2015-Fall 2019
Soil Science Teacher	
<b>Office of Community Standards</b> , Stanford University	Fall 2016-Winter 2021
Office of Community Standards Judicial Panel Organizational Conduct Board	
<b>Skill-Share Seminar Instructor</b> , Stanford School of Earth	Winter-Fall 2019
Seminar Series for students in the Stanford School of Earth meant to teach/learn new skills	
"Professional Website Building - How did you do it?"	May 2019
"Making Canvas work for you: tips and tricks to assist TAs"	Feb 2019
<b>Vice Provost for Teaching and Learning</b> , Stanford University	Fall 2017-Fall 2019
Teaching Liaison	Fall 2017-Fall 2019
Mentor in Teaching and Learning (MINT)	Winter 2018-Fall 2019
<b>Ernest Houston Johnson Scholars Program (EJHS)</b> ,	Fall 2016-Summer 2017
Black Community Services Center mentorship program	
Graduate Mentor to two first-year undergraduates	Spring 2017
EJHS 2.0 Graduate Mentor to two second-year students	Fall 2016
<b>Sigma Alpha Epsilon</b> , Community Service and Philanthropic Organization	Spring 2012-Present
Cal Alpha Alumni Board Member	Spring 2016-Present
Member Educator	Summer 2013-Spring 2015
Community Service, Membership Development, and Judicial Board	Spring 2014
Scholarship Chairman	Spring 2013
<b>Science Fridays</b> , Science Educational Outreach Program for 4 <sup>th</sup> Graders	Spring 2013-Spring 2015
Director	Spring 2014-Spring 2015
Volunteer	2013-Spring 2014
<b>Order of the Omega</b> , Greek Honor Society	Fall 2013-Spring 2015
<b>Marble Scholars Program</b> , COLSA Ambassador	Fall 2013-Spring 2015
Represent the College of Life Sciences at Donor Events, Alumni Events, Open Houses, etc.	

## **LEADERSHIP, MENTORING, AND SERVICE (CONTINUED)**

### **McNair Scholars Program**

Fall 2012-Spring 2015

Focus on publishing research and attending PhD program after graduation  
Numerous service opportunities representing the program and attending events for underrepresented groups on campus

**Xi Sigma Pi**, National Forestry Honor Society  
President

Fall 2012-Spring 2015  
Spring 2013-Spring 2015

## **STUDENT MENTEES**

Chloe Wiggins, Stanford '18  
Alexis M. Wilson, Cornell '19  
Elizabeth Pederson, University of New Hampshire '20  
Bear Kim, Stanford '21  
Sarah Arriaga, Stanford '22  
Julio Ballista, Stanford '22  
Kevin Calderon, Stanford '22  
Cher Pelesia Nomura, Stanford '22  
Coral del Mar Valle Rodríguez, CUNY '22

Lydia Marie Villa, Stanford '22  
Vanessa Yarelli Rodriguez, Stanford '23  
Madeleine Torio Salem, Stanford '24  
Cristina Winters, Humboldt State '24  
Lorelei Wolf, Harvard '24  
Agustín León-Sáenz, Harvard '25  
Malory Brown, Stanford (PhD)  
Colette LaMonica Kelly, Stanford (PhD)  
Emily Morgan Lacroix, Stanford (PhD)

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## **NOTABLE RECENT PRESENTATIONS & INVITED TALKS**

**"Championing Inclusive Terminology in Ecology and Evolution."** ESA+CSEE Meeting. Montreal, CA. August 17, 2022 (Invited Oral Presentation)

**"Plants & Climate Change: Unearthing the Ecology of Root Systems and the Future of Forest Carbon."** Boston University Biology Department. Boston, MA. April 25, 2022. (Invited Seminar)

**"Ecology Rooted in Lived Experiences."** SUNY Cortland Artist & Lecture Series. Cortland, NY. March 28, 2022. (Invited Seminar)

**"Getting to the root of it: Research advances in belowground ecology."** MIT Climate + Ecology Lab. Cambridge, MA. February 23, 2022. (Invited Seminar)

**"Approaches to make the Geosciences more Inclusive: Highlighting Student-Led initiatives."** AGU Fall Meeting. New Orleans, LA. December 15, 2021. ED31A-03 (Invited Oral Presentation)

**"Roots: The hidden half of plant carbon."** Biogeochemistry Seminar. Lawrence Livermore National Lab. November 10, 2021. (Invited Seminar)

**"Unearthing the rooted world beneath our feet: A global analysis of the size and shape of plant root systems."** Harvard Forest Seminar Series. October 27, 2021. (Invited Seminar)



**"Building research communities and networks across ALL of the Américas: One discussion at a time."** *ESA Annual Meeting Inspire Session*. Virtual Meeting, 2021. (Invited Oral Presentation)

**"Forging a Path: Isotopes in Ecology."** Macalester College Environmental Studies Program. February 24, 2021. (Invited Guest Lecture)

**"Plant volumetric allometry and shape above- and belowground."** *AGU Fall Meeting*. San Francisco, CA, 2020. B074-05. (Oral Presentation)

**"Pertenece: Introducing academic and geoscience careers to youth from under-served communities."** *AGU Fall Meeting*. San Francisco, CA, 2020. ED017-08. (Oral Presentation)

**"Actionable Steps Towards Building Anti-Racist & Inclusive Lab Groups."** *Behavioral Decisions and the Environment Group Meeting*. Stanford University. July 20, 2020. (Invited Seminar)

**"The form and function of plant root systems."** *Soil and Environmental Biogeochemistry Meeting*. Stanford University. May 20, 2020. (Invited Seminar)

**"The size and shape of global plant root systems."** *AGU Fall Meeting*. San Francisco, CA, 2019. (Oral Presentation)

**"You Belong: Empowerment, Education, & Environment Program at Stanford Earth."** *AGU Fall Meeting*. San Francisco, CA, 2019. (Oral Presentation)

**"Grand Challenges: LatinX Representation in the Geosciences."** *AGU Fall Meeting*. San Francisco, CA, 2019. (Invited Oral Presentation)

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## HIGHLIGHTED SCHOLARLY ACTIVITIES (INCLUDING CONFERENCES & WORKSHOPS)

<b>LTER All Scientists Meeting</b> , Asilomar, CA	Sep 2022
<b>ESA + CEE Annual Conference</b> , Montreal, QC CA	Aug 2022
<b>Emerging Scholars Program</b> , Boston University, Boston, MA	Apr 2022
<b>American Geophysical Union Fall Meeting</b> , New Orleans, LA	Dec 2017, 2021
<b>LTER Science Council Meeting</b> , Virtual	Nov 2021
<b>LANDIS-II Training Workshop</b> , Virtual	Nov 2021
<b>ESA Annual Conference</b> , Virtual Meeting	Aug 2021
<b>American Geophysical Union Fall Meeting</b> , San Francisco, CA	Dec 2014, 2016, 2019, 2020
<b>SACNAS- The National Diversity in STEM Conference</b>	Oct 2019 & 2020
<b>NSF-Alliances for Graduate Education and the Professoriate Research Exchange</b> , Stanford, CA	Oct 2019
<b>American Association of Hispanics in Higher Education-NASEM Meeting</b> , San Marcos, TX	Sep 2019
<b>Conference of Ford Fellows</b> , Newport Beach, CA	Oct 2018
<b>Global-Scale Root Trait and Soil Carbon Linkages Workshop</b> , Oak Ridge, TN	Aug 2018
<b>Conference of Ford Fellows</b> , Washington, DC	Apr 2018
<b>ISCN Data Hackathon/All-Hands Meeting</b> , New Orleans, LA	Dec 2017
<b>Southern Sierra Critical Zone Observatory Annual Meeting</b> , Shaver Lake, CA	Aug 2017
<b>AGU-SEG Hydrogeophysics Workshop</b> , Stanford, CA	Jul 2017

<b>Udall Conference</b> , Tucson, AR	Aug 2014
<b>Stanford Summer Research Conference</b> , Stanford, CA	Aug 2014
<b>McNair Research Symposium</b> , Seattle, WA	May 2014
<b>COLSA Undergraduate Research Conference</b> , Durham, NH	Apr 2014
<b>Ivy Plus Symposium</b> , Cambridge, MA	Mar 2014
<b>Compact for Faculty Diversity</b> , Arlington, VA	Nov 2013
<b>Benjamin Thompson Society Banquet</b> , Keynote Speaker, University of New Hampshire	Sep 2013
<b>John O. Moseley Leadership School</b> , Miami, FL	Aug 2013
<b>The 50th Annual Hubbard Brook Cooperators' Meeting</b> , North Woodstock, NH	Jul 2013
<b>Undergraduate Research Conference</b> , University of New Hampshire	2011-2013
<b>FuturesQuest</b> , leadership program in Indianapolis, IN	Dec 2012

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## PROFESSIONAL MEMBERSHIPS

- American Geophysical Union (AGU)
  - Ecological Society of America (ESA)
  - Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)
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## MEDIA APPEARANCES

Radio Usach. “**All you need is lab.**” July, 29, 2021. <http://www.radio.usach.cl/noticias/lo-mas-reciente/joseph-tumber-davila-en-5-a-10-anos-mas-ya-no-habra-temporada-de>.

Kayla Hathaway. “**Cimpatico TV Climate Spotlight Interview.**” November 16, 2020. [https://youtu.be/dTI50T\\_avol](https://youtu.be/dTI50T_avol).

Stanford Earth Insiders. “**Q&A: What does it mean to be Latinx in the geosciences?**” September 22, 2020. <https://earth.stanford.edu/news/ga-what-does-it-mean-be-latinx-geosciences#gs.eu2hmj>.

Stanford Spotlights: “**Paying it forward in science.**” May 28, 2018. <https://earth.stanford.edu/spotlights/paying-it-forward-science#gs.eu2g45>.

OMA. “**Stanford Earth SURGE Alumni: Where Are They Now?**” August 4, 2016. <https://earth.stanford.edu/news/stanford-earth-surge-alumni-where-are-they-now#gs.eu0k8f>.

Stanford News Reports. “**Stanford summer program brings more diversity to the earth sciences.**” August 26, 2014. <https://news.stanford.edu/news/2014/august/surge-earth-sciences-082614.html>.

UNH Today. “**Shersingh Joseph Tumber-Davila '15.**” January 20, 2014. <https://www.unh.edu/unhtoday/2014/01/shersingh-joseph-tumber-davila-15>.

## CONTACT INFORMATION FOR THREE PROFESSIONAL REFERENCES

**1) Dr. Jonathan Thompson** (*Postdoctoral Advisor*)

Harvard Forest  
Harvard University  
Shaler Hall  
324 North Main Street  
Petersham, MA 01366  
**Email:** [jthomps@fas.harvard.edu](mailto:jthomps@fas.harvard.edu)  
**Phone:** (978) 724-3302

**2) Dr. Robert Jackson** (*Graduate Advisor*)

Department of Earth System Science  
Stanford University  
Y2E2 Building, Room 140  
473 Via Ortega  
Stanford, CA 94305  
**Email:** [rob.jackson@stanford.edu](mailto:rob.jackson@stanford.edu)  
**Phone:** (650) 497-5841

**3) Dr. Avni Malhotra** (*Co-author & Collaborator*)

Geography Department  
University of Zurich  
Winterthurerstrasse 190  
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