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CURRENT:	
6/23 – present	Postdoctoral Scholar University of California, Berkeley Department of Environmental Science, Policy & Management PI: Dr. Trevor Keenan
EDUCATION:	
8/19 – 8/23	University of Utah Ph.D. Ecology, Evolution, & Organismal Biology Committee: David Bowling (chair), William Anderegg, Troy Magney, James Ehleringer, Barry Logan
7/19	Fluxcourse Early Career Workshop University of Colorado Mountain Research Station at Niwot Ridge Formal training in the foundations of land-atmosphere carbon and water flux measurement, modeling, and synthesis.
8/17 – 5/19	University of Arizona M.A. Geography & Development Committee: Greg Barron-Gafford, William K. Smith, Willem van Leeuwen
8/11 – 12/14	University of Kansas B.S. Ecology & Evolutionary Biology / B.S. Environmental Studies Graduated with Distinction & summa cum laude
RESEARCH:	
6/23 – present	University of California, Berkeley / Postdoctoral Research / Dr. Trevor Keenan Optimizing reforestation strategies for nature-based climate solutions (NbCS) in the neotropics using a process-based demographic vegetation model (CLM-FATES)
1/22 – 4/23	University of Utah / Dissertation Chapter / Dr. David Bowling Interannual variation in the timing and magnitude of carbon uptake due to changing snowpack in forests across North America.
7/21 – 4/23	University of Utah / Dissertation Chapter / Dr. David Bowling Characterizing the photosynthetic response of ponderosa pine needles to experimental drought using leaf-scale solar-induced fluorescence (SIF).
11/22 – 12/22	University of Melbourne / FLUXNET Secondment / Dr. Stefan Arndt Impact of low-intensity controlled burns on the carbon and water flux dynamics of dry eucalypt forests in Australia.
8/19 – 12/21	University of Utah / Dissertation Chapter / Dr. David Bowling GPP and solar induced fluorescence (SIF) respond differently to light and seasonal environmental conditions in a subalpine conifer forest.
8/17 – 5/19	University of Arizona / Master's Thesis / Dr. Greg Barron-Gafford

Linking leaf-level physiology with proximally-sensed and tower mounted photochemical reflective index (PRI) in a semi-arid mixed conifer forest

11/12 – 12/14	Kansas Biological Survey / Undergraduate Honors Research/ Dr. Sharon Billings Microbial metabolic response to temperature and relative C and N availability in boreal organic soils
6/14 – 8/14	Univ. of Michigan Biological Station / NSF REU / Dr. Chris Gough Soil respiration response to stand age and disturbance history in a 168- year forest chronosequence
6/13 – 8/13	Univ. of Arizona, Biosphere2 / NSF REU / Dr. Greg Barron-Gafford Temperature effects on the physiological ecology of sub-alpine conifer forests in the Santa Catalina Critical Zone Observatory.
1/12 – 5/13	Kansas Biological Survey / Undergraduate Researcher / Dr. Kelly Kindscher Harvest sustainability and ethnobotany of the medicinal plant osha

PUBLICATIONS:

- Yang, J.C., Bowling, D.R., Smith, K.R., Kunik, L., Raczka, B., Anderegg, W.R., ... & Litvak, M.E. (2024). Forest carbon uptake as influenced by snowpack and length of photosynthesis season in seasonally snow-covered forests of North America. *Agricultural and Forest Meteorology*, 353, p.110054.
- Yang, J.C., Magney, T.S., Albert, L.P., Richardson, A.D., Frankenberg, C., Stutz, J., Grossman, K., Burns, S.P., B., Seyednasrollah, Blanken, P.D., Bowling, D.R. (2022). Gross primary production (GPP) and red solar induced fluorescence (SIF) respond differently to light and seasonal environmental conditions in a subalpine conifer forest. *Agricultural and Forest Meteorology*, 317, 108904.
- Yang, J.C., Magney, T. S., Yan, D., Knowles, J. F., Smith, W. K., Scott, R. L., & Barron-Gafford, G. A. (2020). The photochemical reflectance index (PRI) captures the ecohydrologic sensitivity of a semi-arid mixed conifer forest. *Journal of Geophysical Research: Biogeosciences*, e2019JG005624.
- Seyednasrollah, B., Bowling, D. R., Cheng, R., Logan, B. A., Magney, T. S., Frankenberg, C., Yang, J.C., Young, A.M., Hufkens, K., Arain, M.A., & Black, T. A. (2020). Seasonal variation in the canopy color of temperate evergreen conifer forests. *New Phytologist*.
- Smith, W. K., Dannenberg, M. P., Yan, D., Herrmann, S., Barnes, M. L, Barron-Gafford, G. A., Biederman, J. A., Ferrenberg, S., Fox, A. M., Hudson, A. R., Knowles, J. F., MacBean, N., Moore, D. J., Nagler, P. L., Reed, S. C., Rutherford, W. A., Scott, R. L., Wang, X., Yang, J. (2019) Remote sensing of dryland ecosystem structure and function: Progress, challenges and opportunities. *Remote Sensing of Environment*.
- Liebman, E., **Yang, J.**, Nave, L. E., Nadelhoffer, K. J., & Gough, C. M. (2017). Soil respiration in upper Great Lakes old-growth forest ecosystems. *BIOS*, 88(3), 105-115.
- Kindscher, K., Martin, L. M., Long, Q., Craft, R., Loring, H., Sharaf, M. H., & Yang, J. (2017). Harvesting and Recolonization of Wild Populations of Oshá (Ligusticum porteri) in Southern Colorado. *Natural Areas Journal*, *37*(2), 178-187.
- Kindscher, K., **Yang, J.**, Long, Q., Craft, R., & Loring, H. (2013). Harvest sustainability study of wild populations of Osha, *Ligusticum porteri*. Open-File Report No. 176. Kansas Biological Survey. Lawrence, KS., 20 pp.

ACADEMIC PRESENTATIONS:

Yang, J.C., Magney, T.S., Bingham, E., Bowling, D.R. Characterizing the photosynthetic response of ponderosa pine needles to experimental drought using leaf-scale solar-induced fluorescence (SIF). Poster presented at: American Geophysical Union National Conference; 2023 Dec 11-15;

- San Francisco, CA.
- Yang, J.C., Magney, T.S., Richardson A.D., Frankenburg, C., Stutz, J., Grossmann, K., Burns, S.P., Seyednasrollah, B., Blanken, P.D., Albert, L.P., Bowling, D.R. A comparison of the environmental responses of canopy SIF and GPP in a subalpine conifer forest in Colorado, USA. Poster presented at: American Geophysical Union National Conference; 2020 Dec 11-17.
- Yang, J.C., Magney, T.S., Richardson A.D., Frankenburg, C., Stutz, J., Grossmann, K., Burns, S.P., Seyednasrollah, B., Blanken, P.D., Bowling, D.R. A comparison of the environmental responses of canopy SIF and GPP in a subalpine conifer forest in Colorado, USA. Poster presented at: Ecological Society of America Annual Meeting; 2020 Aug 3-6.
- Yang, J. C., Magney, T. S., Yan, D., Knowles, J. F., Smith, W. K., Scott, R. L., & Barron-Gafford, G. A. (2019). The photochemical reflectance index (PRI) captures the ecohydrologic sensitivity of a semi-arid mixed conifer forest. Poster presented at: American Geophysical Union National Conference; 2019 Dec 9-13; San Francisco, CA.
- Yang, J., Gough, C. Is that forest breathing?: Soil respiration across a gradient of disturbance severity and forest development. Poster session presented: Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference; 2014 Oct 16-18; Los Angeles, CA.
- Yang, J., Barron-Gafford, G., Minor, R., Heard, M. Examining the physical drivers of photosynthetic temperature sensitivity within a sub-alpine mixed conifer forest. Poster session presented at: American Geophysical Union National Conference; 2013 Dec 8-12; San Francisco, CA.
- Yang, J., Kindscher, K. Estimating populations of Osha, *Ligusticum porteri*, an important medicinal plant of the southwest U.S. Poster session presented: Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference; 2013 Oct 3-6; San Antonio, TX.

AWARDS:

FLUXNET International Secondment Program (\$12,500)

Awarded support for an extended visit to an international host institution to

collaborate internationally in the development of new research questions (see

research section above)

University of Utah Program for Inclusive Excellence in Graduate Recruiting (\$10,000)

2019 College of Science funding for outstanding incoming graduate applicants from

underrepresented and/or non-traditional backgrounds

NSF Graduate Research Fellowship Program (GRFP) (\$148,000)

2018 Recognizes and supports outstanding graduate students pursuing

full-time research-based doctoral degrees in STEM

University of Arizona University Fellows Award (\$63,000)

2017-2018

Awarded to the top doctoral students from each college nominated by its dean

University Fellows Professional Development Award (\$500) Graduate & Professional Student Council Travel Grant (\$1000)

Women in STEM Student Council Travel Grant (\$500)

DIVERSITY, OUTREACH & COMMUNITY ENGAGEMENT:

11/20 - present Natural History Museum of Utah: climate change exhibit development team

1/22 – present Color the Wasatch head of partnerships and donations

8/20 – 8/21 Committee member: UofU School of Biological Sciences Committee for

Representation, Engagement, Equity & Social Justice

1/19 - 5/19	Committee member: UA Women in STEM Student Council (WiSSC)
11/18	UofA Certified Leader in Classroom Diversity & Inclusion
8/17 - 5/18	Mentor: Undergraduate Research Opportunities Consortium
8/13 – 12/14	Member: Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) KU/Haskell Chapter

TEACHING:

8/19-12/19 Teaching Assistant: Ecosystem Ecology

Lecture course for upper division and graduate students examines the biological, physical, and chemical factors that control storage and cycling of the major elements within terrestrial ecosystems.

8/18 – 5/19 UA Sky School Instructor

Graduate mentor providing K-12 students inquiry-based science education in the Santa Catalina mountains

8/18 – 12/18 Field Coordinator UA Community and School Garden Program

Responsible for managing 18 community and school educational gardens in underserved communities across Tucson

5/16 – 10/16 High School Teacher: English as a Foreign Language / Phetchabun, Thailand

International experience working with people from diverse backgrounds in a cross-cultural setting with limited resources.

CONSERVATION & RESTORATION:

5/15 – 11/15 Botany Field Technician (SCA Intern) / Yosemite National Park

Conducted off-trail rare and invasive botanical survey in previously burned areas; performed invasive plant management; assisted in restoration projects and vegetation monitoring

Various The Student Conservation Association (SCA) Volunteer:

Invasive Species Removal: Everglades National Park;

Ecological Restoration Conservation Crew: Columbia River Basin

8/11 - 5/13 Committee Member for KU Environs, an Environmental Action Group

Leader Haskell Wetlands Preservation Ecojustice Campaign;

Initiated and researched Univ. of KS Native Prairie Restoration project

TECHNICAL SKILLS:

Programming (R, Python, Matlab) • Process-based demographic vegetation model (CLM-FATES) •
 Eddy covariance flux towers • Remote sensing (SIF, PRI) • Field ecophysiology measurements •
 Statistical data analysis • Artificial neural network • Cross-site synthesis • Botanical survey & identification • Invasive species management • Forest experimental transects • Tree planting & establishment