



EMILY SIGMAN

 Emily.sigman@aya.yale.edu

 (720)318-8855

RESEARCH INTERESTS

Food Systems, Political Ecology, Social-Ecological Systems/Restoration, Agroecology, Ethnobotany/Mycology

EDUCATION

M.A. **Yale University – Jackson Institute**
(2021) Master of Global Affairs

M.F. **Yale School of the Environment**
(2021) Master of Forestry

B.A. **Yale University**
(2011) Major 1: Philosophy
 Major 2: International Studies

FELLOWSHIPS

- **Yale Forestry and Rangeland Research Partnership \$12,000 (2022)**
A fellowship for research based in the San Luis Valley, Colorado intended to increase knowledge and understanding of ecological processes and effective land management strategies for conservation in the American West.
- **Richard U Light Fellowship; \$25,000 (2021-2022)**
A fellowship which fully funds the pursuit of rigorous language study in Chinese, Japanese and Korean. Awarded for a year-long term studying advanced intensive Mandarin through the National University of Taiwan.
- **National Science Foundation Graduate Research Fellowship; \$235,500 (2016-2021)**
A prestigious five-year fellowship that “recognizes and supports outstanding graduate students in NSF-supported STEM disciplines who are pursuing research-based master’s and doctoral degrees at accredited US institutions.” One of the most competitive awards granted by the NSF.
- **Yale Forests Summer Apprenticeship; \$4,000 (2021)**
Applied forest management training, including road evaluation and maintenance, species identification, land use history, soil classification, site assessments, GIS mapping, long-term and operational forest inventories, statistical analysis, silvicultural prescriptions, preparing and monitoring timber sales, and infrastructure maintenance.

- **Beinecke Fellowship \$6,000 (2021)**
A competitive fellowship offered to Yale Graduate and Professional School students who wish to use the collections of the Beinecke Rare Book and Manuscript Library as a primary resource for their dissertations or culminating projects. Awarded for research on cocoa.
- **Leitner Fellowship for Comparative Political Economy; \$3,000 (2020-2021)**
Esteemed fellowship for research in political economy awarded to a limited number of students. Awarded for research on cocoa.
- **Tropical Resources Institute Fellowship; \$5,300 (2020-2021)**
Supports graduate-level research in the tropics. Awarded for research on cocoa in Ghana.
- **Fox International Fellowship \$24,600 (2019-2020)**
A world-renowned graduate student exchange program for students whose work promises to enhance mutual understanding between the peoples of the United States and other countries. Awarded for year-long research on cocoa agroforestry at the University of Ghana.
- **Global Food Fellowship \$3,000 (2019)**
Summer fellowship for the research which brings place-based practice and participant observation into examining multiple levels of food systems. Awarded for research on vernacular fruit markets in Saint Petersburg, Russia.
- **MacMillan Center Fellowship \$7,500 (2019)**
Advanced language study fellowship for students demonstrating “a bona fide academic need to study the language they have proposed and show a clear relationship to the applicant’s overall course of study”. Awarded for advanced Russian language study.
- **Tropical Resources Institute Fellowship \$5,000 (2018)**
Supports graduate-level research in the tropics. Awarded for research on landscape restoration in Ethiopia.
- **Foreign Language and Area Studies Fellowship (declined); \$32,000 (2016-2017)**
Fellowship to enhance the international expertise of U.S. nationals through the study of languages designated as priority by the U.S. Department of Education. Awarded for study of Wolof, declined to accept NSF GRFP.
- **Tristan Perlroth Fellowship \$4,000 (2010-2011)**
Fellowship awarded to Yale College students for “summer travel outside the United States designed to enhance the student’s understanding of foreign culture and/or international relations.”
- **Richter Fellowship \$1,000 (2010)**
Summer fellowship offered to Yale College students pursuing experiences abroad.
- **Richard U. Light Fellowship; \$8,000 (2008)**
A fellowship which fully funds the pursuit of rigorous language study in Chinese, Japanese and Korean. Awarded for a summer term studying intensive Mandarin at Beijing Normal University.
- **Coca Cola National Scholar; \$20,000 (2007-2011)**
Selective scholarship offered to matriculating college students demonstrating outstanding academic achievement and commitment to community service.

GRANTS

- **Class of 1980 Fund \$12,000 (2017-2021)**
Supports student projects that improve community cohesion. Awarded four times over a five-year period for materials and activities in the Yale Community Forest Garden.
- **Fox Travel Grant; \$2000 – interrupted due to COVID-19 (2020)**
Support for cocoa-related fieldwork in Singapore.
- **Council on Latin American and Iberian Studies Travel Grant; \$500 (2019)**
Support for cocoa-related fieldwork in Oaxaca, Mexico.
- **Council on European Studies Research Grant; \$500 (2019)**
Support to offset costs of traveling via cargo ship for cocoa research in Ghana.
- **Silliman College Graduate Affiliate Program; \$300 (2020)**
Support to orchestrate mentorship vis-à-vis nature walks with graduate and undergraduate students.
- **Yale School of Forestry Conference Travel Grant; \$1,200 (2019)**
Support to present research at the 5th Annual World Agroforestry Congress in Montpellier, France.
- **Student Affairs Council Event Grants \$13,426 (2016-2021)**
Cumulative amount for various awards given to support community events hosted by the Yale Ethnobotany and Mycology Society and the Yale Coalition for Agriculture, Food and the Environment
- **Council on Latin American and Iberian Studies Travel Grant \$500 (2018)**
Support for field research on vernacular architecture in national parks in Cabo Polonio, Uruguay.
- **Society of American Foresters Annual Convention Support Grant \$850 (2018)**
Support to join Yale delegation at annual convention in Portland, Oregon.
- **Student Wellness Grant \$2,000 (2018)**
Support to conduct herbalism courses and other wellness-related events in the Yale Community Forest Garden.
- **Jackson Institute Summer Research Grant; \$5,000 (2018)**
Support for field research with BioRegions International on indigenous groups and national parks in the Darhad Valley of Mongolia.
- **Patagonia writing grant; \$2,000 in kind (2018)**
In-kind support for field course on glaciology in Alaska.
- **Council on African Studies Research Grant \$500 (2018)**
Support for field research on dryland restoration in Tigray, Ethiopia.
- **Yale School of Forestry Alumni Association Research Travel Grant \$3500 (2018)**
Support for field research on dryland restoration in Tigray, Ethiopia.
- **Council on Latin American and Iberian Studies Travel Grant \$500 (2018)**
Support for field course on Tropical Forest Restoration in the Azuero Peninsula of Panama.
- **Pauli Murray College Graduate Affiliate Program \$300 (2018)**
Support for a four-part cultured foods workshop series.
- **Carpenter Sperry Fund; \$1,200 (2017)**
Support to co-host a workshop on cooperative community leadership in Cordoba, Argentina.

- **Society of American Foresters Conference Travel Grant; \$850 (2017)**
Support to join Yale delegation at annual convention in Albuquerque, New Mexico.
- **Summer Experience Grant – Yale School of Forestry and Environmental Studies \$4,000 (2017)**
Support to operate telescopes and host public astronomy lectures at the Orient Land Trust in Villa Grove, Colorado.
- **Student Wellness Grant \$2,000 (2017)**
Support for herbalism classes and other wellness-related activities in the Yale Community Forest Garden.
- **Yale School of Forestry Big Ticket Funding \$4,000 (2017)**
Support to host a four-part cultured foods workshop series.
- **Pierson College Graduate Affiliate Program \$300 (2017)**
Additional support to host a four-part cultured foods workshop series.
- **Carpenter Sperry Fund \$1,200 (2017)**
Support to present research at the 3rd Annual Conference on Traditional Plant Medicine in Colombo, Sri Lanka.
- **Council on South Asian Studies Conference Travel Grant \$1,200 (2017)**
Additional support to present research at the 3rd Annual Conference on Traditional Plant Medicine in Colombo, Sri Lanka.
- **Bohemian Foundation Grant \$30,000 (2015)**
Written on behalf of The Kitchen Community – grant to support school gardens in Colorado.
- **Wasserman Foundation Grant \$250,000 (2015)**
Written on behalf of The Kitchen Community – grant to support general operations costs of school garden non-profit.
- **Piton Foundation Grant \$450,000 (2015)**
Written on behalf of The Kitchen Community – grant to support general operations costs of school garden non-profit.
- **Pritzker Foundation Grant \$250,000 (2015)**
Written on behalf of The Kitchen Community – grant to support general operations costs of school garden non-profit.
- **Yale Africa Initiative seed Grant; \$2,500,000 (2011)**
Written on behalf of Dr. Ian Shapiro – established new university initiative for African cultural exchange.
- **Paul Mellon Forum Grant \$500 (2011)**
Support to participate as a delegate in the Stanford US-Russia Forum in Moscow, Russia.
- **MacMillan Center Grant \$1,500 (2010)**
Support to conduct thesis fieldwork in Saint Petersburg, Moscow and Irkutsk, Russia
- **Berkeley Grant \$500 (2009)**
Support to study at Vijnana Kala Veda School for Traditional Indian Art in Aranmula, India.

AWARDS AND RECOGNITION

- **線上課進步獎 - 中高級 (Prize for Achievement in Mandarin Language Progress) (2022)**
Received the highest score of any high-level student at National Taiwan University during the year-long intensive language program.
- **Yale School of Forestry and Environmental Studies Alumni Association Board Ruth Allen Memorial Award – Finalist (2020)**
Recognizes students with exemplary record of volunteer service and leadership.
- **Commencement Speaker – Yale School of Forestry and Environmental Studies (2018)**
Nominated by peers and chosen by committee to deliver remarks at 2018 commencement ceremony. Viewable at: <https://www.youtube.com/watch?v=83wHbpGmp0I> begins 40:38.
- **Kroon Cup - Finalist (2017)**
Nominated by peers for outstanding contributions to the professional school community
- **John Addison Porter Prize (2011)**
“A literary award given annually by Yale University to the best work of scholarship in any field where it is possible, through original effort, to gather and relate facts or principles, or both, and to present the results in such a literary form as to make the product of general human interest. This award is among the highest the university confers.”
- **Teneyck Prize for Public Speaking (2010)**
Selected by panel of judges, award for speech “The Great Ice Cream War.”

PEER REVIEWED PUBLICATIONS

1. **Sigman, E.** (2021), The Dilemma of Scale: competing imperatives for global restoration. *Restoration Ecology*, 29: e13408. <https://doi.org/10.1111/rec.13408>
2. **Sigman E** and Elias M (2021) Three Approaches to Restoration and Their Implications for Social Inclusion. *Ecological Restoration*, vol. 39 no. 1-2 27-35. doi: 10.3368/er.39.1-2.27
3. Elias, M., Kandel, M., Mansourian, S., Meinzen-Dick, R., Crossland, M., Joshi, D., Kariuki, J., Lee, L.C., McElwee, P., Sen, A., **Sigman, E.**, Singh, R., Adamczyk, E.M., Addoah, T., Agaba, G., Alare, R.S., Anderson, W., Arulingam, I., Bellis, S.K.V., Birner, R., De Silva, S., Dubois, M., Duraisami, M., Featherstone, M., Gallant, B., Hakhu, A., Irvine, R., Kiura, E., Magaju, C., McDougall, C., McNeill, G.D., Nagendra, H., Nghi, T.H., Okamoto, D.K., Valencia, A.M.P., Pagella, T., Pontier, O., Post, M., Saunders, G.W., Schreckenberg, K., Shelar, K., Sinclair, F., Gautam, R.S., Spindel, N.B., Unnikrishnan, H., Wilson, G.t.g.n.N. and Winowiecki, L. (2021), Ten people-centered rules for socially sustainable ecosystem restoration. *Restor Ecol.* Accepted Author Manuscript e13574. <https://doi.org/10.1111/rec.13574>

BOOK CHAPTER

Sigman E (2022) Safeguarding biodiversity islands in northern Ethiopia amidst political change. In: Montagnini F (ed) *Biodiversity islands: strategies for conservation in human dominated environments*. Springer.

BOOK PROJECT

In the Shade of the World Tree: A Chocolate-Flavored History of an Interspecies Life

In the Shade of the World Tree takes readers on an expansive journey across the coevolutionary history of humanity and cocoa. Eleven thematic essays weave together to go beyond existing 'bean-to-bar' narratives and explore cocoa in its fascinating but lesser-known contexts. The resulting book is a stimulating concoction made of equal parts politics, economics, religion and ecology, whisked in narrative, marinated in history, and peppered with insights gleaned from extensive field research. The book is chock full of rich cocoa stories that travel betwixt great civilizations, magical molecules, thorny questions, and profound cosmologies, helping to uncover hidden connections between subjects, societies, and species and reveal the brilliant complexity that lives at the heart of a familiar foodstuff.

ARTICLES

Sigman E (2021) From Ferns to Femelschalgs: A Summer of Forestry, Fun and Friendship. *The Overstory*. <https://yff.yale.edu/news/ferns-femelschlags-summer-forestry-fun-and-friendship>

Sigman E (2021) Celebrating Five Years of Abundance in the Yale Community Forest Garden. *The Overstory*. <https://yff.yale.edu/news/celebrating-five-years-abundance-yale-community-forest-garden>.

Sigman E. (2021). Inspired by History Course, Jackson Student Takes to the Seas *Jackson Institute for Global Affairs*. <https://jackson.yale.edu/jackson-grad-student-recounts-her-unconventional-voyage-to-ghana/>

Sigman E. (2021). Fox International Fellow Recalls her Unconventional Voyage to Ghana *MacMillan Center*. <https://macmillan.yale.edu/news/fox-international-fellow-recounts-her-unconventional-voyage-ghana>

Sigman E (2020) Oaxaca and the Global Cocoa Supply Chain. *Council on Latin American and Iberian Studies*. <https://clais.macmillan.yale.edu/oaxaca-and-global-cocoa-supply-chain>

Sigman E (2020) Research Visit to Belgium. *European Studies Council*. <https://europeanstudies.macmillan.yale.edu/research-visit-belgium>

Sigman E (2019) The Future of the Society of American Foresters. *The Forestry Source*. https://www.eforester.org/Main/SAF_News/2019/The_Future_of_SAF__Emily_Sigman.aspx

- Sigman E** (2019) Biodiversity is delicious: a look inside the fruit markets of Saint Petersburg. *MacMillan Center*. <https://macmillan.yale.edu/news/biodiversity-delicious-look-inside-fruit-markets-saint-petersburg>
- Sigman E.** (2018). Exploring Food System Dynamics in Mongolia's Darhad Valley. *Bioregions International*. <https://bioregions.org/media/Food-System-Dynamics-2018.pdf>
- Sigman E.** (2018). Free community labour: a critical driver in Ethiopia's restoration and livelihood initiatives. *Agroforestry World*. Volume 10. <http://blog.worldagroforestry.org/index.php/2018/10/01/free-community-labour-critical-to-ethiopias-drive-to-restore-land-and-improve-livelihoods/>
- Sigman E** (2018) University landscapes: an opportunity for agroforestry. *Association for Temperate Agroforestry*. Volume 24. <https://www.aftaweb.org/136-2018-vol-24/2018-vol-24-no-1/230-university-landscapes-an-opportunity-for-agroforestry.html?hitcount=0>
- Sigman E** (2018) Land restoration and food security in Ethiopia. *Jackson Institute*. <https://jackson.yale.edu/land-restoration-food-security-ethiopia/>
- Sigman E** (2017) Field notes from Panama. *Council on Latin American and Iberian Studies*. <https://clais.macmillan.yale.edu/trip-panama>
- Sigman E, Turner G and Samuels S** (2014) The Ripple Effect: How to use the Media for Social Change. *Ripple Strategies*. <https://www.ripplestrategies.com/use-media-social-change-report/>
- Sigman E** (2013) The problem with that Pantene commercial. *Elephant Journal* <https://www.elephantjournal.com/2013/12/the-problem-with-that-pantene-commercial-emily-sigman/>
- Sigman E** (2011) The collapse of the Soviet Union. *John Addison Porter Prize*. https://en.wikipedia.org/wiki/John_Addison_Porter_Prize

RESEARCH PRESENTATIONS AND POSTERS

- Sigman E** (2020) Global Cocoa Stories. *Joint Session of the Council on European Studies and the Council on Latin American and Iberian Studies*. New Haven CT, USA.
- Sigman E** (2019). The role of community labor in socio-ecological restoration: perspectives from Abreha we Atsbeha. *5th Annual World Agroforestry Congress*. Poster. Montpellier, France.
- Sigman E.** (2019) What enables restoration? Understanding watershed restoration political dynamics, and 'Free Labour' in Tigray, Ethiopia. *International Society of Tropical Foresters Annual Conference*, New Haven CT, USA.

Sigman E (2019). A town in a national park? Or a national park in a town? Reflections from Cabo Polonio, Uruguay. *Council for Latin American and Iberian Studies*. New Haven CT, USA.

Sigman E (2017). The Yale Agroforestry Collaborative: opportunities for university landscapes *North American Agroforestry Conference*. Blacksburg VA, USA.

Sigman E (2016) Towards an integration of university landscapes and traditional plant medicine. *Conference on Ayurveda and Traditional Plant Medicine*. Colombo, Sri Lanka.

Sigman E, Maslova E, Suen A and Margaryan G (2011). Vladivostok: A green silicon valley? *Stanford US-Russia Forum* Palo Alto CA, USA.

GUEST LECTURES

Sigman E (2022) Centering People in Ecological Restoration Projects. Invited by Dr. Eva Garen, Yale School of the Environment. Environmental Leadership and Training Initiative online certificate program (Peoples course).
<https://yale.hosted.panopto.com/Panopto/Pages/Viewer.aspx?pid=bc2d5eb5-18b0-4c60-a023-af0a00dac035>

Sigman E (2020) Watershed Restoration in Ethiopia. Invited by Dr. Mark P Ashton, Yale School of Forestry and Environmental Studies. Course: Tropical Forest Restoration, Spring.

Sigman E (2019) Who Decides? Restoration policies, local governance and group labor: a case study from Abreha we Atsbeha. Environmental Leadership and Training Initiative online certificate program.
<https://yale.hosted.panopto.com/Panopto/Pages/Viewer.aspx?pid=30431fba-e99e-452e-a1d9-aab4016b7c0f>

Sigman E. (2018). Black doves and white crows: community landscape restoration through the lens of Ethiopian orthodoxy. Invited by Dr. Mary Evelyn Tucker and Dr. John Grim, Yale Divinity School. Religion and Ecology Colloquium, Fall.

PUBLIC LECTURES AND WORKSHOPS

Sigman E (2021) How to use your worm bin planter. *Yale Backyard Composting Workshop*. New Haven, CT (online). https://www.youtube.com/watch?v=_9zNfIQviuc

Sigman E (2020) Introduction to gardening. *At home in New Haven*. New Haven, CT (online).

Sigman E and Breen T (2020) Mushroom Cultivation: Shiitakes on Logs. *Yale Community Forest Garden*. New Haven CT.

Sigman E and Green L (2020) An Acorn Walk: Introduction to Oak Trees. *Silliman College*. New Haven CT.

Sigman E (2019) The Night Sky: An Orientation to the Stars. *Orient Land Trust*. Series of 18 public lectures. Villa Grove CO.

Sigman E (2019) Mushroom Cultivation: Winecaps in Woodchips. *Tsai CITY*. New Haven CT.

Sigman E (2019) Mushroom Cultivation: Shiitakes and Oysters on Logs. *Yale Community Forest Garden*. New Haven CT.

Lavin G and **Sigman E** (2019) Building your materia medica. *Marsh Botanic Gardens* New Haven CT.

Stebbins H and **Sigman E** (2019) Forage and Feast. New Haven CT.

Sigman E and Marini D (2019) Navigating personal leadership in cooperative housing. *110 Acres*. Rio Cuarto, Argentina.

Mudge K and **Sigman E** (2018) Mushroom cultivation: statue method. *Yale School of Forestry and Environmental Studies*. New Haven CT.

Sigman E (2018) Spring planting: perennial vegetables. *Yale Community Forest Garden*. New Haven CT.

Lavin G and **Sigman E** (2018) Introduction to Herbalism. *Yale School of Forestry and Environmental Studies*. New Haven CT.

Sigman E and Dunning G (2018) Build your own worm bin. *Yale School of Forestry and Environmental Studies*. New Haven CT.

Stebbins H and **Sigman E** (2018) Forage and Feast. New Haven CT.

Sigman E (2017) Fall planting: perennials. *Yale Community Forest Garden*. New Haven CT.

Sigman E (2017) The Night Sky: An Orientation to the Stars. *Orient Land Trust*. Series of 15 public lectures. Villa Grove CO.

Sigman E (2017) Cultured foods workshop series (four lectures). *Murray College*. New Haven CT.

Sigman E (2017) Incorporating Mushrooms in Forest Gardens. *Yale Community Forest Garden*. New Haven CT.

West M and **Sigman E** (2017) Establishing urban meadows. *Yale Community Forest Garden*. New Haven CT.

Sigman E (2017) Managing invasives naturally. *Sustainability professionals*. New Haven CT.

Sigman E (2017) Vermicompost: bag method. *BYO Café*. New Haven CT.

Sigman E (2017) Spring planting: perennials. *Yale Community Forest Garden*. New Haven CT.

Passero L and **Sigman E** (2017) Introduction to Herbalism. New Haven CT.

Sigman E (2017) Self Care through Earth Care. *Being Well at Yale*. New Haven CT.

Sigman E, Atta-Boateng A, Romero R, Ross-Ewart C and Greenbaum E (2017) What do plants sound like? Plants and the audible spectrum. *Yale School of Forestry and Environmental Studies*. New Haven CT. <https://vimeo.com/222874016>

Sigman E (2016) Planting roots to overwinter. *Yale Community Forest Garden*. New Haven CT.

Sigman E (2016) Cultured foods workshop series (four lectures). *Pierson College*. New Haven CT.

- Vegetables: Kimchee and Kraut
- Beverages: Ginger Beer and Kombucha
- Dairy: Yogurt and Kefir
- Sourdough

Sigman E (2016) Introduction to Earthworks. *Yale Community Forest Garden*. New Haven CT.

Sigman E and Elder L (2016) Planting seeds of resilience. *Yale Community Forest Garden*. New Haven CT.

Sigman E (2016) Introduction to Herbal Medicine Making. *Being Well at Yale*. New Haven CT.

Sigman E (2016) Sheet mulching at the Yale Community Forest Garden. *Yale School of Forestry and Environmental Studies*. <https://www.youtube.com/watch?v=4NmMFBm3knE>.

Sigman E (2016) Introduction to sheet mulching. *Yale Community Forest Garden*.

Sigman E (2016) The Night Sky: An Orientation to the Stars. *Orient Land Trust*. Series of 15 public lectures. Villa Grove CO.

Sigman E (2015) How to write great grants. *Picklebric Farm*. Boulder, CO.

Sigman E and Selvens Z (2014) 529 Funds for Education: How to save for school (and save on taxes). *Picklebric Farm Personal (Pi)nance Workshop*. Boulder, CO.

Sigman E (2013) Introduction to Soapmaking. *Picklebric Farm Stuff n Things Series*. Boulder CO.

EDITORIAL WORK & REVIEWING

➤ **Peer Reviewer for:**

- Ecology and Society
- Environmental Research
- Restoration Ecology
- Ecological Restoration
- Biodiversity Islands (Springer, Ed: Montagnini)

SERVICE

- Lead organizer – Everybody Park (2020-present)
- Co-leader – Yale Ethnobotany and Mycology Society (2016-2021)
- Co-leader – Yale Coalition on Agriculture Food and the Environment (2016-2019)
- Title IX representative – Yale School of Forestry and Environmental Studies (2016-2018)
- Co-founder – Picklebric Farm (2012-2016)
- Founding member – Beit Izim Goat and Chicken Cooperative (2013-2016)
- Co-founder – Community Fruit Rescue (2014-2015)
- Member – Boulder Edible Landscapes Working Group (2014-2016)
- Founder – Students Against Multiple Sclerosis (2005-2007)

AFFILIATIONS

- Society for Ecological Restoration (SER)
- Society of American Foresters (SAF)
- International Society of Tropical Foresters (ISTF)
- Association for Temperate Agroforestry (AFTA)
- The Forest Guild
- Game of Logging – Level 1 Certified.
- Survival Group – CPR/First Aid/AED certified
- Permaculture Institute of North America – Permaculture Design Course Completed 2015

ACADEMIC TEACHING

Contributing Instructor: Environmental Leadership and Training Initiative (2022)

Online certificate program training practitioners from across the globe how to design, implement and evaluate restoration projects and activities

Teaching areas: governance and restoration, social inclusion, biophysics of ecological restoration

Teaching Fellow: Tree Physiology and Ecophysiology (Spring 2017)

Professor: Dr. Graeme Berlyn

Yale School of Forestry and Environmental Studies

Chemistry, Math and Spanish Instructor – Mindfish (2012-2014)

Taught supplemental courses for high school students

EMPLOYMENT

Environmental Leadership and Training Initiative (2022-present)

Program Associate

- Design, coordinate and deliver courses to train environmental leaders, including:
 - Year-long online certificate program for environmental professionals
 - Short courses for professionals and organizations
 - Field courses across demonstration sites in the Neotropics and Tropical Asia
 - Hybrid courses for Yale students (online/in-person/field)

Bioversity International (2015-2022)

Consultant

- Provide ad-hoc research services on subjects relating to socio-ecological restoration
- Conducted analyses to help direct organizational funding
- Produced one (1) sole-authored book chapter, one (1) sole-authored peer-reviewed paper (*Restoration Ecology*), and contributed to two (2) multi-author peer-reviewed papers (*Ecological Restoration* and *Restoration Ecology*)

Environmental Stewardship Council (2016-2021)

Landscape Steward

- Served as inaugural steward of Yale Community Forest Garden
- Introduced 40+ new native, edible perennial species, built 18+ inches of nutrient-rich soil and installed rainwater catchment system
- Raised >\$20,000 to support community workshops and programs
- Managed all communications, outreach, and advocacy

World Agroforestry Centre (2016-2019)

Research Associate

- Collected rural field data to support integrated development program (DryDEV) in Burkina Faso
- Traveled extensively to conduct interviews in migrant-prone areas on the Ethiopia-Eritrea border
- Developed successful proposal for partnership with UN International Organization on Migration (IOM) in Ethiopia.
- Pioneered original research on the political ecology of landscape restoration in Abreha we Atsbeha, Ethiopia.

Dr. Graeme Berlyn (2017-2019)

Research Assistant

- Served as Teaching Fellow for course: Tree Physiology and Ecophysiology (Spring 2017)
- Collected field data for research on carotenoid and phyllotaxy of *Acer rubrum*.
- Analyzed laboratory foliar tissue culture using a variety of spectroscopy methods.
- Analyzed field data on foliar plasticity in *Acer Rubrum* using multivariate statistical analysis

The Kitchen Community (2014-2015)

National Grant Manager

- Raised ~\$1M for school garden non-profit

- Managed key philanthropic partnerships
- Coordinated with team to advance new standards for programming and evaluation

Ripple Strategies (2013-2014)

Content Manager

- Managed relationships with news outlets and media platforms
- Wrote article content and website copy for clients
- Wrote company's first eBook, *The Ripple Effect: How to Use the Media for Social Change*.

The Unreasonable Institute (2012)

Program Manager

- Served as primary liaison between 30 visiting entrepreneurs and 50+ investors
- Hosted several events with 150+ attendees
- Oversaw conversion of a university fraternity house to a summer residence for institute participants.

Dr. Ian Shapiro (2011)

Research Assistant

- Conducted research to update book *Containment* for new edition
- Upgraded contact database
- Authored key drafts of Yale-Africa Initiative seed grant

LANGUAGES

SPANISH

COURSEWORK:

- Daily instruction – 2000-2007
- Spanish in International Politics and Media, Yale University 2011.

FIELD APPLICATIONS:

- USA
- Mexico
- Panama
- Uruguay
- Argentina
- Spain
- Guatemala
- Chile

CERTIFICATIONS

- Spanish Language Instructor, Mindfish 2012
- Certificate of Advanced Spanish Language Study, Yale University 2010
- IB Exam Score: 7

AFFILIATIONS

- Council on Latin American and Iberian Studies 2018-2021

RUSSIAN

COURSEWORK:

- First Year Russian I, Yale University 2009
- First Year Russian II, Yale University 2010
- Russian for Professionals, Extra Class Russian Language School, 2010
- Intensive Elementary Russian, Yale University 2018
- Intensive Intermediate Russian, Yale University 2019
- Third-Year Russian, Yale in Saint Petersburg 2019
- Fourth-Year Russian, Yale University 2020
- Reading the Russian Revolution, Yale University 2021

FIELD APPLICATIONS:

- USA
- Russia
- Bulgaria
- Ghana

CERTIFICATIONS

- Certificate of Advanced Russian Language Study, Yale University 2020
- C1-level, Pushkin Institute

AFFILIATIONS

- Council on European Studies 2019-2021
- MacMillan Center Fellowship for Foreign Language Study 2019

CHINESE

COURSEWORK:

- Elementary Modern Chinese I, Yale University 2007
- Elementary Modern Chinese II, Yale University 2008
- Intensive Intermediate Chinese, Beijing Normal University 2008
- Advanced Modern Chinese, Yale University 2008
- Intermediate Chinese I, Yale University 2020
- Intermediate Chinese II, Yale University 2021
- Thoughts on Chinese Culture (Advanced), National Taiwan University 2021
- Thought and Society (Advanced), National Taiwan University 2022
- Chess King (Advanced), National Taiwan University (in progress)
- Taiwan Insights (Advanced), National Taiwan University (in progress)

FIELD APPLICATIONS

- USA
- China
- Taiwan

CERTIFICATIONS

- Princeton in Beijing intensive summer language study completion

AFFILIATIONS

- Richard U Light Fellowship 2008
- Richard U Light Fellowship 2021

FRENCH

COURSEWORK

- French I, University of Colorado 2015
- Intensive Elementary French, Yale University 2020

FIELD APPLICATIONS

- USA
- France
- Burkina Faso
- Belgium

AFFILIATIONS

- Council on African Studies 2016-2021
- Council on European Studies 2019-2021

PERSIAN

COURSEWORK:

- Elementary Persian I, Yale University 2020

REFERENCES

Florencia Montagnini, Ph.D. (Academic Advisor)

Director of the Program in Tropical Forestry and Agroforestry (PTFA) – Global Institute of Sustainable Forestry
Senior Research Scientist - Yale School of the Environment, New Haven CT, USA
florence.montagnini@yale.edu

Mark Ashton, Ph.D. (Academic Advisor)

Morris K Jessup Professor of Silviculture and Forest Ecology
Director of the Yale School Forests
Yale School of the Environment/The Forest School New Haven CT, USA
mark.ashton@yale.edu

Marlène Elias, Ph.D. (Co-author)

Senior Scientist – Alliance of Bioversity International and CIAT
Gender Research Coordinator – CGIAR Research Program on Forests, Trees and Agroforestry
marlene.elias@cgiar.org

Cathy Watson (Former Employer)

Chief of Partnerships - World Agroforestry Centre (ICRAF)
Nairobi, Kenya
cathyhwatson@gmail.com

Sara Smiley Smith, Ph.D. (Former Employer)

Associate Dean of Academic Affairs, Research and Sustainability
Yale School of the Environment, New Haven CT, USA
Sara.smileysmith@yale.edu