

Career Development Office





The Yale School of Forestry & Environmental Studies prepares new leadership and creates new knowledge to sustain and restore the long-term health of the biosphere and the well-being of its people.

Ben Cohen, '17 M.E.M./M.B.A., measuring a tree in Yale-Myers Forest during *Introduction to Ecosystem Measurement*, a required program for ALL incoming students.

About F&ES

Founded in 1900 by Yale alumni Henry Graves and Gifford Pinchot, the first Chief of the U.S. Forest Service, Yale School of Forestry & Environmental Studies (F&ES) is the oldest professional forestry school in the nation.

From many of the early U.S. Forest Service chiefs to today's global climate policy leaders, our graduates work on a wide range of environmental challenges. Our extensive alumni presence spans the globe and cuts across major industries and employment sectors.

With a strong commitment to the long-term health of the biosphere, the School prepares leaders with a systems-based education in eight broadly conceived areas of environmental concern – biodiversity, forestry, global climate, industry, law and economics, urban systems, water, and social ecology.

All students, regardless of degree program, complete one week programs in ecosystem measurement, urban ecosystems analysis, and land measurement and mapping. The programs are designed to encourage systems thinking, to promote group work, and to help peers develop a common language around core environmental and forestry concepts.



Meet Our Students!

Our graduate students are a dynamic, globally diverse group pursuing a wide range of high-impact, solution-based environmental careers, advanced research, and thought leadership.

Leaders in sustainable business, conservation, & climate science & policy.

4 years of professional experience

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For anyone who's caught, smoked, or eaten salmon, crab, shrimp, or seaweed, it almost goes without saying. Here in Southeast Alaska, we have an incredibly rich and increasingly rare resource. We call it clean water.

— Southeast Alaska Conservation Council's website



Robin Czerwinski

Master of Arts in Global Affairs '17

Kat Fiedler

Master of Environmental Management and Juris Doctorate (Pace Law) '17

Lara Iwanicki

Master of Environmental Management '16

Protecting Alaskan Watersheds

Robin, Kat, and Lara come from diverse backgrounds in environmental education, ecology research, and corporate sustainability, and they are pursuing diverse academic interests in water resources management, environmental law, and marine ecosystems. They joined forces at Yale to work with **Southeast Alaska Conservation Council's Inside Passage Waterkeeper Program** as part of F&ES's Environmental Protection Clinic course.

The issue? More than 10 mines in British Columbia lie upstream of Alaskan watersheds, threatening clean water, wild salmon, and the communities and economies that rely on these healthy rivers. **Southeast Alaska Conservation Council** works with a coalition of environmental, fishing, and tribal organizations to advocate for government action to address the hazard posed by these mines.

The challenge? Develop a strategy, conduct research, and draft complaints and recommendations to address transboundary issues affecting southeast Alaska's watersheds.

As part of their strategy to address these risks and raise the profile of the transboundary issue, Robin, Kat, and Lara drafted complaints to the National Contact Point in Canada regarding mining companies' violations of the OECD Guidelines for Multinational Enterprises (MNEs). Though not legally binding, it is expected that MNEs based in or operating in country members of OECD will follow the guidelines.

According to Josh Galperin, Director of the Environmental Protection Clinic course, "Robin, Kat, and Lara were a formidable team. They represent exactly what we try to capture in the Environmental Protection Clinic and at F&ES more broadly: an interdisciplinary team coming together, building on each others strengths, and producing real results for the environment. Thanks to these dynamic students, the **Southeast Alaska Conservation Council** and the *Inside Passage Waterkeeper Program* are much better positioned to protect Alaska's incredible water resources than they were just a year ago."

The team also wrote a plan for further actions for *Inside Passage Waterkeeper* and partner organizations to complete after the initial recommendations have been implemented. Results were presented to stakeholders in Juneau, Alaska.

Students
from
36
countries

Danica Doroski

Master of Forest Science '17



Greening City Infrastructure

Greening City Infrastructure

As urban forests play an increasingly vital role in municipal water management, air purification, and energy demand reduction, cities around the world are strategically planning green infrastructure.

According to Danica, while significant resources are dedicated to urban forestry projects, there is little research on urban forest dynamics and even less on woody plant recruitment and regeneration in these unique sites. To help better understand and further the long-term sustainability of these projects, Danica is focusing on this much needed research.

Building on the New York City Afforestation Project (NY-CAP) and the MillionTreesNYC Initiative, and in partnership with the New York City Department of Parks and Recreation and the US Forest Service, Danica is sampling seedlings and saplings in fifty-six 10-meter-by-10-meter research plots in Kissena Corridor Park, Queens.

By identifying the factors influencing species regeneration, Danica's work will help inform future planning and management of reforested areas for land managers and agencies in New York City and beyond.

“Communities that foster green infrastructure are more livable, produce fewer pollutants, and are most cost-effective to operate.”

— American Planning Association,
Planning the Urban Forest Report

“When we see land as a community to which we belong, we may begin to use it with love and respect.”

— Aldo Leopold, F&ES Alumnus, 1909

“*Cross-disciplinary integration, urban-to-global linkages, integration of urban infrastructures with public health and governance, and international cross-city comparisons taken together will advance the science of low-carbon cities.*”

— NSF PIRE Award Abstract

“*The economy of nature and the ecology of man are inseparable.*”

— Spencer Beebe, F&ES Alumnus, 1974

Advancing the Science of Low Carbon Cities

Michael is conducting a life cycle analysis of greenhouse gas emissions (GHG) for a proposed bus rapid transit line in Staten Island, N.Y., as part of a National Science Foundation Partnership for International Research & Education (PIRE) grant studying low-carbon cities in China, India, and the United States. Though often considered a low-cost alternative to constructing subways, there is limited research on how bus rapid transit fits into cities' broader transportation-related sustainability goals.

Michael's research and model is part of the data that will be used to project future GHG emissions reductions resulting from a combination of technology and policy strategies.

The PIRE project is expected to directly affect close to one hundred students across 3 nations, benefit residents in the field-work cities, and create long-term capacity to translate research to sustainability in communities and potentially worldwide. Professor Marian Chertow, Director of the Industrial Environmental Management Program, is the Co-Principal Investigator of the project at F&ES.

Prior to F&ES, Michael performed energy audits, developed safety and sustainability training, and conducted job hazard assessments at United Technologies Corporation. He holds a Bachelor of Science in Earth Systems with a concentration in human interactions with the environment from Stanford University.

Michael Cox II

Master of Environmental Science '17



Low Carbon Cities

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Working with the team from Yale was very positive. Their approach to the problem was creative and provided a variety of options for Chobani to consider. I think their work is on par with what a team of professionals would have developed.”

— David Sheldon, Director, Environmental Health, Safety & Sustainability, Chobani

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From farm to factory, producing food is the most water-intensive business on earth.”

— Feeding Ourselves Thirsty, CERES Report, 2015

Linh Tran

Master of Environmental Management '16

Andrew Wu

Master of Environmental Management '16

Menaal Ebrahim

Master of Environmental Management '16

Susannah Harris

*Master of Environmental Management '16
Master of Business Administration '16*

Managing Water Risk in Food Production

Like many food production companies, Chobani, Inc., the largest producer of Greek yogurt, is concerned about both the quality of its product and its environmental impact, including sustainable use of water in operations.

Menaal, Susannah, Linh, and Andrew took on the initial challenge of developing a conceptual design for a “zero water discharge” facility, focusing on Chobani’s milk processing plant in New Berlin, NY. They looked at reducing water use, increasing water reuse, and maintaining the quality of any water discharged from the processing plant.

To identify opportunities and technologies for Chobani to reduce water use, the team recorded and analyzed the plant’s current water use patterns. With backgrounds in water resources management, food and water systems, conservation finance, and environmental economics, as well as strong technical and business management skills, Menaal, Susannah, Linh, and Andrew brought a great combination of expertise to their recommendations.

According to Maureen Burke, Lecturer for the F&ES Business & Environment Consulting Clinic overseeing the project, “Menaal, Susannah, Linh, and Andrew made a perfect team. They worked well both independently and collaboratively, and were very client-focused in designing their research and selecting their final recommendations.”

The final report included system and technological improvements to minimize water use and to maintain water quality for reuse or discharge. To help the client use the results for internal cost-benefit analysis and strategic planning, the team provided a decision-making matrix tool with criteria including water and energy use, feasibility, and cost. The team also provided food industry case studies and technical resources to track water use and benchmark water performance.



Wildlife Conservation Policy & Foreign Investing

If the global trade in African wildlife continues to drive poaching at current levels, both rhinos and elephants could vanish from the wild as early as 2034, according to the Natural Resources Defense Council (NRDC).

To address illegal wildlife trafficking activities and their adverse impacts on both African wildlife and habitat, the NRDC Beijing Office is seeking strategies to advise the Chinese government on legal and policy initiatives.

As part of F&ES's Environmental Protection Clinic with Yale Law School, Abi, Sarah, and Breanna advised the Beijing NRDC office on the potential impacts of increased Chinese foreign direct investment on illicit wildlife trade and habitats in four African nations: timber in Madagascar, rhino horn in South Africa and Kenya, and ivory in the Democratic Republic of Congo.

The team members all brought to the project extensive experience in natural resource conservation, but also contributed diverse areas of

expertise in: tropical biodiversity, international conservation policy, Mandarin, Chinese law and energy policy, and experience living and working in China and Africa.

Working together, Abi, Sarah, and Breanna provided recommendations to the NRDC on strategies for Chinese foreign investments, and for enforcing and strengthening current environmental laws and regulations. Their case studies and recommendations are targeted to help influence the markets that drive poaching, curtail illegal wildlife trafficking, and provide tools for governments to develop sound policies while engaging local stakeholders and NGOs.

Breanna Lujan

Master of Environmental Management '16

Abigail Barnes

*Master of Environmental Management '16
Juris Doctorate '16, Vermont Law School*

Sarah Federman

Ph.D. candidate, department of Ecology & Evolutionary Biology '17



“Despite the many benefits that foreign direct investment (FDI) can offer Chinese and African economies, these investments can also generate adverse ecological and environmental impacts, including habitat degradation, and harm to wildlife populations. FDI initiatives can also facilitate opportunities for illicit wildlife trafficking.”

— Sarah Federman, '17 Ph.D.

Wildli
Conser

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The Cap and Trade Program sets a statewide limit on sources responsible for 85 percent of California's greenhouse gas emissions, and establishes a price signal needed to drive long-term investment in cleaner fuels and more efficient use of energy.

— California Air Resources Board

Moving Towards Carbon Free

One of the first assignments Jared took on as an energy research analyst at CME Group was to deliver an in-depth overview of California's cap-and-trade market to management. The overview provided background for the potential development of new futures trading contracts.

Covering clean energy and environmental markets at CME Group in New York this summer, Jared also conducted market research, supply and demand analysis, and high-level reporting on macroeconomic fundamentals of complex energy markets in Power (electricity), Natural Gas, and Emissions.

Jared is pursuing a Master of Environmental Management with a focus on clean energy and environmental commodity markets. His interest is driven by what he calls “a pivotal moment”—the declining use of carbon intensive energy and the corresponding greater demand, use, and adoption of carbon free energy.

Before coming to F&ES, Jared spent five years in apparel manufacturing as an entrepreneur building a luxury brand. His ecommerce company focused on sustainable apparel production, coupling lean supply-chain methodology with technology to create clothing for high-end markets. He holds a Bachelor of Arts in Economics from San Francisco State University.

Jared MacLane

Master of Environmental Management '17



4,670+
Alumni Globally

Carbon Free

Hire

Our Students & Alumni

environment.yale.edu/employers



These are just some of the ways to get involved in recruiting at F&ES!

Create

Free Account in FESNext

- Post positions to current students, recent graduates, and alumni
- Search and review the student database and resumes, then reach out to connect
- Request on or off-campus recruiting opportunities and let us help organize your activities

F&ESNEXT

Recruiting Events

- In-person or virtual information sessions and interviews during our fall and spring recruiting weeks
- Industry Networking Nights
- All-Ivy Environmental and Sustainable Development Fair in NYC

Participate

Get Involved

Master's Internship/Research Project Program

- A summer internship or research project is required for all F&ES master's degree candidates
- Work with us to bring well qualified students to your organization

We provide a broadly based learning experience that equips our graduates to assume influential roles in government, business, nongovernmental organizations, public and international affairs, journalism, research, and education.



F&ES students are extremely active in international conferences and events. In December 2015, 25 students from F&ES attended the international COP21 climate talks in Paris.

6%
complete a Master
of Forestry degree

Our Graduates Lead Nationally & Internationally in Many Areas Including:

Green Infrastructure	International Development
Water Resources Management	Waste Management
Sustainable Land Management and Land-Use Planning	Green Manufacturing
Energy Analysis and Strategy	Social Ecology
Ecosystem and Wildlife Conservation	Environmental Investing
Biofuels Research	Disaster Risk Management
Corporate Sustainability	Energy Efficiency
Environmental Policy Analysis	Renewable Energy Development
Green Building	Climate Change Mitigation and Adaptation
Environmental Engineering	Green Chemistry
Brownfield Remediation	Environmental Law
Industrial Ecology	
Forestry	
Urban Planning and Design	
Protected Areas Management	
Environmental Education and Training	
Resilient Local Food Systems	
Conservation Finance	
Environmental Health and Safety	
Industrial Recycling	
Carbon and Forest Finance	
Air Quality Management	

12%
complete a
joint MBA

Selected First Jobs for Recent Alumni

CEO
Poda Foods

Environmental Scientist
California Department of Pesticide Regulation

Watershed Protection Supervisor
City Of Cambridge Water Department

Energy Industry Analyst
FERC

Natural Resource Specialist & Presidential Management Fellow
National Parks Service

Sea Grant Knauss Fellowship
NOAA

Sea Grant Fellow
Office of U.S. Senator Ron Wyden

Strategic Analyst
USDA Caribbean Climate Hub
San Juan, Puerto Rico

Litigation Assistant
Earthjustice

Northwest Parks for People Program Manager
The Trust For Public Land

Associate
Ideas42

Assistant Project Manager
Codegreen Solutions

Consultant
UNDP

Manager
WBCSD
Geneva, Switzerland

Senior Consultant
Booz Allen Hamilton

Consultant Analyst
PA Consulting Group

Advisor to Secretariat
National Environmental Ministry
Argentina

Corporate & Financial Sector Specialist
WWF Colombia
Medellin, Antioquia

Associate
Kearns & West

MLDP Associate
Sunedison

Civil Society Specialist
World Resources Institute

Product Manager
Watersmart Software

Senior Plant Protection Officer
Government of Bhutan
Thimphu, Bhutan

Business Development Consultant
Reon Energy
Karachi, Pakistan

Investment Analyst
Fosun Group
Shanghai, China

Associate - Responsible Investment
TIAA-CREF

Research Fellow for Western Land Conservation
The Pinchot Institute for Conservation

Strategic Initiatives Analyst
Sonoma Land Trust

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