

# IGNITE CHANGE. GO GREEN.

## Faculty Spotlight:

Samantha Chapman, PhD, Associate Professor,  
Department of Biology

This interview series brings you inside the world of the Villanova faculty and explore how their work relates to creating a sustainable future. In this issue we hear from Dr. Samantha Chapman, an associate professor in the Department of Biology.

### **What is your academic background?**

I completed my graduate work on the Colorado Plateau in Arizona working in both desert and mountain ecosystems. I examined how both insects and forest diversity influence the rate at which ecosystems store carbon.

### **How long have you been teaching at Villanova?**

I've been a professor at Villanova for 9 years. I love the balance of research and teaching that being a biology professor at Villanova allows. Some of the courses I teach include a large General Biology course and graduate course in Ecosystem Ecology, with students ranging from freshman to graduate students. The students I work with in my lab often generate the most interesting questions I pursue in my research program.

### **In your own words, how would you define sustainability and why is it important to you?**

To me, sustainability means humans act as both users and stewards of their environment. This stewardship can maximize our ability (and that of other animals) to continue to prosper on this Earth. I promote sustainability because it's the best way for us to continue to live on this awesome diverse planet. Earth would be fine without humans, but we need Earth for our survival.

### **What is your current research focused on?**

I study how climate change influences coastal ecosystems. The mangroves and marshes that line our coasts protect us from big storms and rising seas. I'm trying to understand how they'll continue to do this in the future.

### **Do you collaborate with others on your research?**

I collaborate often with colleagues in the Geography and Environment Department and sometimes with colleagues in Engineering. We have fantastic scientists here at Villanova.

Interview continues on second page



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**Have you been able to incorporate sustainability into your course work?**

I often incorporate sustainability into my courses via discussions about agriculture, climate politics, and environmental ethics. My students work on projects where they attempt to discern the monetary value of the services that ecosystems provide for us.

**If you could create any course, what would it be?**

In the past I have taught a Capstone course on ecosystem services. Ecosystem services are those things that natural ecosystems provide for us as humans like pollination, climate control, and clean water. I'd love to teach this course with an ethicist or a political scientist.

**What are your favorite outside of the office activities?**

I like hiking with my 6 year old and 3 year old and husband who is also a professor at Villanova. I enjoy training for races and doing yoga.



## President's Environmental Sustainability Committee Student Applications February 1-12



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## EVENTS

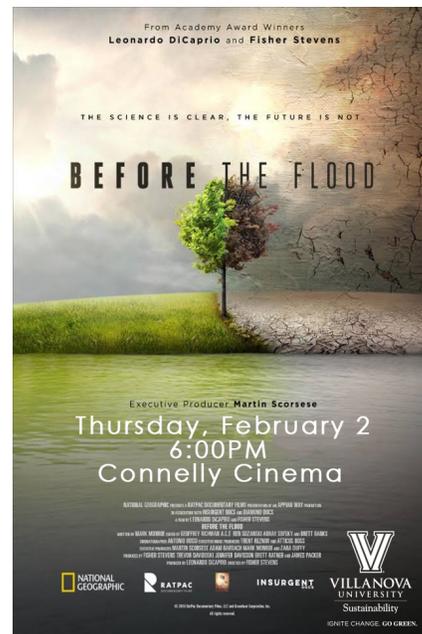
Thursday, February 2

### **"Before the Flood" Viewing**

Connelly Center, Cinema, 6:00PM

*Go on an expedition with scientists to uncover the realities of climate change and meet with the political leaders fighting against inaction.*

This event is ACS approved



Thursday, February 2

### **Everything is Connected:**

**Peterson Toscano**

Swarthmore College, Science Center 101 7:30-9:00PM

Tuesday, February 7

### **Climate Change and Public Health**

*Part of the Climate Change Adaptation Community of Practice Workshop series*

DVRPC: 190 N Independence Mall, Philadelphia 9:00AM-1:00PM

Register Online

Friday, February 10

### **Environmental Law Journal Symposium**

*Implementing the Frank R. Lautenberg Chemical Safety for the 21st Century Act*

Charles Widger School of Law, Room 201 from 9:00AM-12:30PM

Register Online

Friday, February 17- Sunday, February 19

### **Citizens' Climate Lobby: Mid Atlantic Regional Conference**

*Learn what is happening on the national and local level to respond to climate change.*

Chestnut Hill College

Register Online



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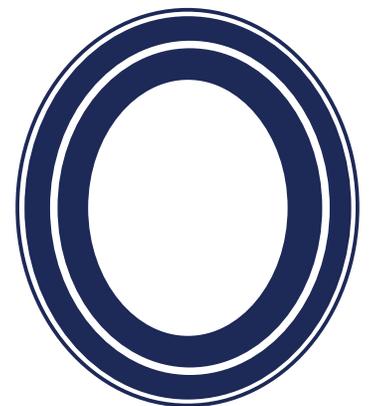
# ZERO WASTE GAME



Volunteer to help Villanova be #1

Volunteers will monitor recycling centers while enjoying the best Basketball team defeat Craigton.

**Signup to volunteer today!**



ZERO  
WASTE  
GAME

# IGNITE CHANGE. GO GREEN.

## MARCH EVENTS

Wednesday, March 1

### **Webinar “Beyond Doom and Gloom: Include Solutions to Climate Change”**

12:30-1:30PM

This webinar focuses on expert, faculty friendly curricular materials to engage students in current and future solutions that can be used in any course and in any discipline.

Register Online

Sunday, March 5

### **Approaching Sustainability**

**Dr. John Francis, National Geographic Explorer and Environmental Educator**

*Beginning with his journey on foot across the Americas, Dr. Francis will speak about his transformation from an environmental activist to environmental practitioner and how his and our own journeys might lead us closer to sustainability.*

Temple University, Ambler Campus Learning Center Auditorium, 2:00PM

Register Online

Monday, March 6- Friday, March 10

### **Defrost Week!**

*Get excited to defrost your lab freezer, its good for the planet and for Villanova.*

*Why? A defrosted freezer:*

- Is more spacious since the process includes discarding contents that are no longer needed.*
- Saves you time since the contents can be replaced into the unit in an organized way – no more searching for that sample that you “know is in there”*
- Lasts longer. When a freezer has a lot of ice buildup, the compressor works harder and fails sooner.*
- Saves electricity and money.*

Charles Widger School of Law, Room 201 from 9:00AM-12:30PM

Register Online

Sunday, March 26- Tuesday, March 28

### **Smart and Sustainable Campuses Conference**

University of Maryland, College Park Marriott

Register Online



**VILLANOVA**  
UNIVERSITY

Sustainability

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# CAREER EVENTS

Thursday, February 2, 9, & 16

## **Webinar, How to Get A Job In Sustainability: Building a Leadership Career in Business, NGOs and Government**

*These webinars will provide outline of different sustainability career directions, an evaluation of the impact of President Trump on sustainability jobs, a discussion of grad school and continuing education options, and offer listeners with a tailored, concrete job search strategy.*

Multiple times. Register Online

Wednesday, February 22- Thursday, February 23

## **EcoCareer Conference Building Pathways to Sustainable Careers**

*Virtual conference focused on helping students interested in sustainable career opportunities.*

Register Online

# CAREER OPPORTUNITIES

## **University of New Hampshire Sustainability Fellowship**

*UNH's Sustainability Fellowships pair outstanding students with challenging, important projects that will propel the US toward a low-carbon future.*

Apply Online.

## **University of Buffalo Sustainability Engagement Coordinator**

*The Sustainability Engagement Coordinator will support UB's sustainability initiatives through collaboration, leadership and partnering throughout the campus community.*

Apply Online.

## **TreePhilly Program Intern**

*The TreePhilly Program seeks a seasonal Intern to support existing tree planting and giveaway projects and to develop new ideas to promote tree planting and maintenance in Philadelphia.*

Application Below.

## **Mt. Cuba Center Internship**

*Our goal is to inspire students to have an appreciation for the beauty and value of native plants and a desire to protect the environments that sustain them.*

Apply Online.



PROGRAMS EXPERIENCE ABOUT US GET INVOLVED 

## The GREEN Program: Japan

Disaster Mitigation & Nuclear to Renewable Transitions

### [Introducing: The GREEN Program - Japan](#) [Disaster Mitigation & Nuclear to Renewable Transitions](#)

August 3 - 12, 2017

*On March 11, 2011, Fukushima, Japan was hit by Tōhoku's 9.0 magnitude earthquake in addition to a massive tsunami with waves more than 10 meters high. Due to safety analysis failure, the Fukushima Daiichi Nuclear Power Plant led to three nuclear meltdowns, hydrogen-air chemical explosions, and the release of radioactive material. Leaving more than 160,000 refugees displaced from their homes, the effects of Fukushima Daiichi sent waves of concern across the international nuclear industry. Classified as a Level 7 event by the International Nuclear Event Scale, this event was home to one of the world's largest nuclear disasters.*

*Nearly three years after the accident, the province of Fukushima has pledged to be sourced by 100% renewable sources by 2040. Today, Fukushima is making strides toward accomplishing this renewable future through solar and off-shore wind initiatives. With a government that remains pro-nuclear, Fukushima's Climate and Energy Department of the World Future Council hopes to set an example for other regions in Japan to follow. Join The GREEN Program as we explore origins of this historic nuclear disaster and discover Fukushima's newest frontiers as they take on a renewable energy future.*

*Please complete the form below to request more information about our newest program in Japan this summer. Stay tuned for more details from The GREEN Program, coming soon!*



# EVERYTHING IS CONNECTED

**AN EVENING OF STORIES. MOST WEIRD, MANY TRUE.**



Experience the artful, playful, outrageously funny, and deeply moving storytelling craft of Peterson Toscano. Connecting issues and ideas to bizarre personal experiences, literature, science, and even the odd Bible story, Peterson transforms right before your eyes into a whole cast of comic characters who explore the serious worlds of gender, sexuality, privilege, religion, and environmental justice. [www.petersontoscano.com](http://www.petersontoscano.com)

**Sager Series Speaker: Peterson Toscano**  
**Science Center 101**  
**Thursday, 2/2**  
**7:30-9 pm**

*Hosted by the Intercultural Center, Interfaith Center, Lang Center for Civic & Social Responsibility, and Office of Sustainability*

# Concerned about climate change?

Find out how you can make a difference!



## 2017 Citizens' Climate Lobby Mid-Atlantic Regional Conference

**Friday, February 17- Sunday, February 19, 2017**

February 17 - SugarLoaf Hill, 9220 Germantown Avenue, Philadelphia, PA

February 18 & 19 - Chestnut Hill College, 9601 Germantown Avenue, Philadelphia, PA

For more info or  
to register:

<http://tiny.cc/ccl-ma-2017>

### Climate Solution Opportunities

*Empowering you in a warming world*

**Who should come?** Everyone is welcome, whether it's your first CCL experience or you are an experienced volunteer. If you want to help create the political will for a livable world, join us. Our event will inspire and empower you to be an effective citizen advocate.

CITIZENS CLIMATE LOBBY is an international grassroots organization that is building bi-partisan support in Congress and around the world to put a price on carbon pollution and return the money that's collected to the people through equal dividend payments.



**Citizens' Climate Lobby**

<http://citizensclimatelobby.org/>

## **How to Get A Job In Sustainability: Building a Leadership Career in Business, NGOs and Government**

Dr. Eban Goodstein  
Director, Graduate Programs in Sustainability at Bard College  
(MBA in Sustainability / MS Environmental and Climate Policy)

In this one-hour talk, Dr. Goodstein will outline different sustainability career directions, evaluate the impact of President Trump on sustainability jobs, discuss grad school and continuing education options (including school now / school later), and provide listeners with a tailored, concrete job search strategy. The webinar includes twenty minutes of Q&A to address individual career questions.

Thursday, February 2, 7 PM Eastern: [www.bluejeans.com/617855386](http://www.bluejeans.com/617855386)

Thursday, February 9, 6 PM Eastern: [www.bluejeans.com/719059711](http://www.bluejeans.com/719059711)

Thursday, February 16, 6:30 PM Eastern: [www.bluejeans.com/655310712](http://www.bluejeans.com/655310712)

Dial-in only; 1.888.240.2560 (US Toll Free), Use codes above.

Eban Goodstein  
Director, Bard Center for Environmental Policy &  
Director, Bard MBA in Sustainability

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Bard College offers career-focused graduate degree programs in sustainability: [MS Degrees in Environmental Policy and Climate Science and Policy](#) and a unique, [low-residency MBA in Sustainability based in New York City](#). Both programs emphasize experience-based education, supporting students to turn their calling into a career.

[www.bard.edu/cep](http://www.bard.edu/cep) — [www.bard.edu/mba](http://www.bard.edu/mba)

845-758-7067

[ebangood@bard.edu](mailto:ebangood@bard.edu)

Eban Goodstein

Director, Bard MBA in Sustainability &

Director, Bard Center for Environmental Policy

845-758-7067

[ebangood@bard.edu](mailto:ebangood@bard.edu)

[www.bard.edu/mba](http://www.bard.edu/mba) / [www.bard.edu/cep](http://www.bard.edu/cep)



# PHILADELPHIA PARKS & RECREATION

<b>Department:</b>	Philadelphia Parks & Recreation
<b>Division:</b>	Urban Forestry
<b>Title:</b>	TreePhilly Program Intern
<b>Type:</b>	Seasonal, 9-Month
<b>Salary/Hours:</b>	\$15/hour, 37.5 hours/week

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Philadelphia Parks & Recreation's TreePhilly Program promotes Philadelphia's urban forest and provides residents with the resources they need to plant and care for trees in their own yards and in public spaces. Since 2011, TreePhilly has distributed 15,500 free yard trees to Philadelphia property owners through the Yard Tree Giveaway Program. The TreePhilly Program is a partnership with the Fairmount Park Conservancy and TD Bank.

The TreePhilly Program seeks a seasonal Intern to support existing tree planting and giveaway projects and to develop new ideas to promote tree planting and maintenance in Philadelphia. The position requires an energetic and organized person who can work independently as well as collaboratively with the TreePhilly Program Manager. The Intern position will begin on Wed. March 1<sup>st</sup>, 2017 and end on Thurs. November 30<sup>th</sup>, 2017 and will have a flexible schedule that includes evening and weekend work, both in and out of the office. This position reports directly to the TreePhilly Program Manager.

### ***Responsibilities:***

- Assist in the planning and staffing of Yard Tree Giveaway events in the spring and fall;
- Coordinate the Community Yard Tree Giveaway Grant program, including but not limited to leading trainings; scheduling and staffing events, collecting completed grant materials, and distributing grant awards;
- Contribute to and help maintain TreePhilly website and social media accounts;
- Answer phone calls and emails from Philadelphia residents related to TreePhilly programs and city tree planting processes;
- Attend community meetings and events to promote TreePhilly programs;
- Develop new programming and outreach materials to promote tree planting in under-represented communities;
- Collaborate with partner organizations to increase public interest in the urban tree canopy;
- Data entry and best practices research.

**Qualifications:**

- Resident of the City of Philadelphia;
- Bachelor's degree in forestry, horticulture, plant science or related field, or equivalent experience;
- Minimum of 1 year experience in community organizing;
- Experience with volunteer organizing and event planning;
- Excellent oral and written communication skills;
- Knowledge of Microsoft Office programs, especially Microsoft Excel;
- Ability to lift 50 lbs and work outside in adverse conditions; and
- Preferred: Familiarity with the City of Philadelphia and its neighborhoods.

**Please send resume and cover letter by February 10<sup>th</sup>, 2017 to:**

Erica Smith Fichman, TreePhilly Program Manager  
One Parkway Building, 10<sup>th</sup> Floor  
1515 Arch St.  
Philadelphia, PA 19102  
erica.smith@phila.gov  
(215) 683 0217