# Jason M. Aloisio

# CIRRICULUM VITAE

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## **EDUCATION**

Fordham University (Bronx, NY)	Biology	PhD	2016
York College of Pennsylvania (York, PA)	Biology	BS	2007

## **PROFESSIONAL EXPERIENCE**

2017 – 2020	Manager of Project TRUE (Teens Researching Urban Ecology), WCS, Education
2014 – 2017	Project TRUE Program Coordinator, WCS, Education
2011 – 2014	WCS Graduate Assistant, Fordham University, Biology
2010 – 2011	Teaching Fellow, Fordham University, Biology
2009 – 2010	Teaching Assistant, Fordham University, Biology
2009	AmeriCorps Intern, U.S. Fish and Wildlife
2008	Naturalist, Glen Helen Ecology Institute

## AWARDS, SCHOLARSHIPS, AND GRANTS

Presenters' Choice Award – NSF STEM for all video showcase	
Outstanding Service Award – CSTEP, Fordham University	
Pinkerton Foundation: Science Research Mentoring Consortium	\$350,000
Angela Peterson Excellence in Diversity Award	
Ecological Society of America Graduate Student Policy Award	
WCS Annual Team Award	
National Science Foundation (co-PI)	\$2,632,560
St. Rose's start-up funds – Fordham University	\$5,000
The Kathleen O'Connell Tamburro, PhD, GSAS '68, and Carlo H.	\$68,000
Tamburro, M.D., Memorial Endowed Scholarship	
Fordham University GSAS Research Grant	\$400
Urban Ecology and Ecosystems Section of ESA Travel Grant	\$400
Faculty Support Grant, Fordham University	\$3,000
Departmental Funding Award – Fordham University	\$1,000
Fordham University Presidential Scholarship	\$68,000
AmeriCorps Education Scholarship	\$4,000
Eagle Scout	
	Outstanding Service Award — CSTEP, Fordham University Pinkerton Foundation: Science Research Mentoring Consortium Angela Peterson Excellence in Diversity Award Ecological Society of America Graduate Student Policy Award WCS Annual Team Award National Science Foundation (co-PI) St. Rose's start-up funds — Fordham University The Kathleen O'Connell Tamburro, PhD, GSAS '68, and Carlo H. Tamburro, M.D., Memorial Endowed Scholarship Fordham University GSAS Research Grant Urban Ecology and Ecosystems Section of ESA Travel Grant Faculty Support Grant, Fordham University Departmental Funding Award — Fordham University Fordham University Presidential Scholarship AmeriCorps Education Scholarship

## PEER-REVIEWED PUBLICATIONS

**Aloisio, J.M.**, Palmer, M.I., Tuininga, A.R. and J.D. Lewis. Introduced and native plant species composition of vacant unmanaged green roofs in New York City. *Urban Ecosystems* **23**:1227–1238. 2020. https://doi.org/10.1007/s11252-020-00992-6

**Aloisio, J.M**., M.I. Palmer, A.R. Tuininga, and J.D. Lewis. Plant colonization of green roofs is affected by the composition of established native plant communities. 2019. *Frontiers in Ecology and Evolution* **6**:238. doi: 10.3389/fevo.2018.00238

- Aloisio, J.M., B.J. Johnson, J.D. Lewis, J.A. Clark, J Munshi-South, D. Wasserman, J. Heimlich, S. Roberts, and K. Tingley. 2018. Pre-college urban ecology research mentoring: promoting broader participation in the field of ecology for an urban future. *Journal of Urban Ecology* **4**:juy203. <a href="https://doi.org/10.1093/jue/juy023">https://doi.org/10.1093/jue/juy023</a>
- **Aloisio, J.M.**, M.I. Palmer, M.A. Giampieri, A.R. Tuininga, J.D. Lewis. 2017. Spatially dependent biotic and abiotic factors drive survivorship and physical structure of green roof vegetation. *Ecological Applications*, available online: 10.1002/eap.144
- **Aloisio, J. M.**, A. R. Tuininga, and J. D. Lewis. 2016. Crop species selection effects on stormwater runoff and edible biomass in an agricultural green roof microcosm. *Ecological Engineering* **88**:20-27.

#### **Publications In-Review**

D. Wasserman, J. Heimlich, **Aloisio, J.M**., S. Roberts, J.D. Lewis, J.A. Clark, J Munshi-South, and K. Tingley. Short and long-term effects of urban ecology research mentoring on precollege students. *In prep at Evaluation and Program Planning* 

## **Publications In-Prep**

Aloisio, J.M., S. Roberts, J.D. Lewis, J.A. Clark, J Munshi-South, D. Wasserman, J. Heimlich, and K. Tingley. Mentoring while being mentored: effects of mentoring high school students on undergraduates during a summer research experience. *In prep* 

## **INVITED TALKS**

- 2019 *Green Roof Ecosystems and their role in creating resilient cities,* Seminar, Bowdoin College, Brunswick, ME, USA, September 12
  - The challenge of mentoring to broaden participation in an inclusive ecological future, Organized Oral Session,  $103^{rd}$  Annual Meeting of the Ecological Society of America, Louisville, KY, USA, August 11-16
- 2018 Urban ecology research experiences can increase participation in the ecological sciences, Organized Oral Session,  $103^{rd}$  Annual Meeting of the Ecological Society of America, New Orleans, LA, USA, August 5-10
  - Green roofs as tools for research education and more, The State of Green Roofs in New York City, New York, NY, USA, June 7
  - Ecology in urbanity structural and educational approaches to environmental sustainability in cities, Oregon State University Cascades, Bend, OR, USA, February 2
- 2017 *Vegetation dynamics of green roof ecosystems*, West Chester University, West Chester, PA, USA, April 17
- 2016 Urban ecology: an opportunity to diversify and strengthen the community of

October 2020

- ecologists, Cary Institute for Ecosystem Studies, Millbrook, NY, USA, December 14
- 2016 Green roof succession and a case study of the CGC green roof by Project TRUE, WCS, Bronx, NY, USA, October 19
- 2015 Species identity affects community dynamics and ecosystem function of green roofs, Queens College, Queens, NY, USA, December 2
- 2015 Hierarchical systems approaches to urban challenges: Plant communities in green roofs and high school science research education, York College of Pennsylvania, York, PA, USA, April 15
- 2015 Plant community dynamics of native plant assemblages on geographically isolated green roofs in NYC, Organized Oral Session at 100st Annual Meeting of the Ecological Society of America, Baltimore, MD, USA, August 9 15
- 2012 Plant, arthropod, and microbial communities on New York City green roofs: Assembly, development, and function. Columbus, OH, USA, EcoSummit, September 30 October 5

#### **CONFERENCE PARTICIPATION**

- 2020 Environmental justice and big data as a foundation for developing ecologically literate and resilient communities, Organized Oral Session (co-organizer), 104<sup>th</sup> Annual Meeting of the Ecological Society of America, Virtual Meeting, August 3 6, 2020
- 2019 Inclusive Urban Ecology Research Mentoring: A theoretical and Practical Guide to Training and Implementation, Workshop, 103<sup>rd</sup> Annual Meeting of the Ecological Society of America, Louisville, KY, USA, August 12 16
  - Evaluating teen programs at zoos and aquariums: finding the "secret sauce" to maximize engagement and learning, Association of Zoos and Aquariums Annual Conference, New Orleans, LA, USA, September 8 11
- 2018 Ecology in urbanity: youth development and environmental education in the 21<sup>st</sup> century, Oral, International Conference for Sustainable Cities, New York, NY, USA, May 1 2
  - Pre-college urban ecology research mentoring: promoting broader participation in ecology, Poster, Sixteenth Annual Urban Ecology and Conservation Symposium, Portland State University, Portland, OR, USA, February 5
- 2017 Urban Ecology research mentoring experiences can broaden participation in the ecological sciences, Oral, 102<sup>nd</sup> Annual Meeting of the Ecological Society of America, Portland, OR, USA, August 7 12

Spatially-dependent biotic and abiotic factors drive survivorship and physical structure of green roof vegetation, Oral, Fifteenth Annual Urban Ecology and Conservation Symposium, Portland State University, Portland, OR, USA, February 6

2016 NYC green roofs: how do growing medium properties affect native plant assemblages?, Poster, Pennsylvania Botany Conference, State College, PA, USA, November 18 – 19

Know your role! – How to be an effective mentor and mentee. Workshop organizer, Student Conference on Conservation Science, American Museum of Natural History, New York, NY, USA, October 20-22

The effects of soil depth and nitrogen-fixing plants on green roofs in New York City, Poster, 4<sup>th</sup> Annual Bronx Science Consortium Poster Symposium, Bronx, NY, USA, September 28

NYC green roofs: how do growing medium properties affect native plant assemblages, Poster, Bronx Science Consortium Poster Symposium, Bronx, NY, USA, September 28

*Project TRUE: Teens Researching Urban Ecology*, Poster, Association of Zoos and Aquariums Annual Conference, San Diego, CA, USA, September 8 – 11

Urban Zoos as an epicenter for urban wildlife conservation. Panel organizer and speaker, Association of Zoos and Aquariums Annual Conference, San Diego, CA, USA, September 8-11

Project TRUE (Teens Researching Urban Ecology) – Creating a pipeline to train the next generation of ecologists, Talk,  $101^{\rm st}$  Annual Meeting of the Ecological Society of America, Fort Lauderdale, FL, USA, August 7 – 12

2015 Engaging student learners in urban ecology and conservation. Talk, North American Association of Environmental Educators, San Diego, CA, USA, October 15 – 18

Understanding urban ecology through a tiered mentorship program. Poster, Washington Symposium and SENCER-ISE National Meeting, Washington D.C., USA, September 27 – 29

Plant community dynamics of native plant assemblages on geographically isolated green roofs. Talk, NYC.  $100^{th}$  Annual Meeting of the Ecological Society of America, Baltimore, MD, USA, August 9-14

2014 Project TRUE, Teens Research Urban Ecology in New York City, NYC. Poster, Science Education for the New Civic Engagements and Responsibilities Summer Institute, Ashville, NC, USA, July 31 – August 4

2013 Project TRUE – Teens Research Urban Ecology: Arthropod biodiversity of the Prospect Park Zoo, NYC. Poster, 1<sup>st</sup> Annual Bronx Science Consortium Poster Symposium, Bronx, NY, USA, September 28

Wild Urban Bird Communities of the City Zoos: Central Park Zoo, Queens Zoo, and Prospect Park Zoo. Poster, 1<sup>st</sup> Annual Bronx Science Consortium Poster Symposium, Bronx, NY, USA, September 28

Project TRUE – Teens Research Urban Ecology: Invertebrate biodiversity of the Prospect Park Zoo, NYC. Talk, 98<sup>th</sup> Annual Meeting of the Ecological Society of America, Minneapolis, MN, USA, August 4 – 9

Plant colonist assemblages on green roofs established with native plant communities in NYC. Poster, The Ecology of New York City: Organisms, Environment and History, Manhattan, NY, USA, April 20

2012 Plant, arthropod, and microbial communities on New York City green roofs: Assembly, development, and function. Columbus, OH, USA, EcoSummit, September 30 – October 5

Growing media affects edible plant production and leachate on a simulated rooftop farm. Talk,  $97^{th}$  Annual Meeting of the Ecological Society of America, Portland, OR, USA, August 5-10

2011 Biomass and plant diversity of naturally colonized green roof substrate in New York City. Talk,  $96^{th}$  Annual Meeting of the Ecological Society of America meeting, Pittsburgh, PA, USA, August 1-6

Productivity and plant diversity of naturally colonized green roofs in New York City. Talk, Annual Meeting of the Mid-Atlantic Ecological Society of America, April 9 - 10

## **DEPARTMENTAL TALKS**

2018	Diversity and inclusion in youth development, WCS — Bronx Zoo, Bronx, NY, USA
2016	Rooftop plant: Community and nutrient dynamics of NYC green roofs, WCS –
	New York Aquarium, Brooklyn, NY, USA
2015	Green Roof Ecology – Bronx Zoo, WCS, Bronx, NY, USA
2015	Discovering Ecology in the Urban Jungle, WCS, Bronx, NY, USA
2015	Discovering Ecology in the Urban Jungle, Fordham University, Bronx, NY, USA
2015	Hierarchical systems approach to urban challenges: Plant communities in green roofs and high school science research education, Fordham University, Bronx, NY,
	USA
2013	Urban Ecology of New York City, WCS, Bronx, NY, USA
2011	Introduction to Green Roof Ecology, WCS, Bronx, NY, USA

Biomass and plant diversity of naturally colonized green roofs in New York City,
Louis Calder Center – Biological Field Station, Fordham University, Armonk, NY,
USA
 Agricultural Rooftops as Social Economic and Ecological and Drivers, Fordham
University, New York, NY, USA

#### **TEACHING EXPERIENCE**

**High School** (courses taught to students underrepresented in STEM are underlined)

2015 – 2020	Project TRUE College Boot Camp, WCS
2014	The Role of Urban Zoos, WCS
2013	Wild Urban Bird Communities of the City Zoos of New York, WCS
2013 – 2014	Project TRUE: Urban Bird Biodiversity, WCS
2012 – 2014	Project TRUE: Urban Arthropod Biodiversity, WCS
2012	Project TRUE: Storm Sandy and Sand Dune Succession, WCS

## Undergraduate

2018 – 2020	Introduction to science research and mentoring, WCS
2017 – 2018	Entering Research Mentoring, Fordham University
2017 – 2018	Entering Research, Fordham University
2015 – 2016	Project TRUE Research Mentoring Boot Camp, Fordham University
2010 – 2011	Introductory Biology II Lab, Fordham University
2009 – 2010	Introductory Biology I Lab, Fordham University

## Graduate

2017 Entering Research Mentoring, Fordham University

## **Potential Undergraduate Courses**

Introductory Biology, Ecology, Urban Ecology, Environmental Science, Science and Society, Biostatistics, Botany, Research Seminar, Science Communication, Entering Mentoring Seminar

#### **Potential Graduate and Faculty Development Courses**

Entering Mentoring Seminar, Urban Ecology, Community Ecology

#### MENTORING EXPERIENCE

## **High School**

Mentored 225 high school students from groups traditionally underrepresented in sciences through Project TRUE. All students presented at conferences or symposiums.

## Undergraduates

Mentored 78 undergraduate students, 67 through Project TRUE, 38 from groups traditionally underrepresented in the sciences. All students presented at conferences or symposiums.

#### Graduate + Staff

Mentored 12 graduate students through Project TRUE and 13 full- or part-time WCS staff who

supported Project TRUE.

# **PROFESSIONAL SERVICE**

## **Peer-Reviewer**

Environmental Engineering Science, Ecological Engineering, Ecosphere, PLOS ONE, Journal of Applied Ecology, WCS Institutional Review Board, National Science Foundation Review Panel

# Leadership

2020 – present	Co-Editor, Socio-ecological dynamics of green roof ecosystems, Frontiers in
	Ecology and Evolution; urban ecology,
2015 – 2020	Lead Organizer, Annual Bronx Science Consortium Poster Symposium, WCS
2015 – 2018	Lead Organizer, Annual Project TRUE Research Poster Symposium, Fordham
	University
2014 – 2018	Secretary, Ecological Society of America's Urban Ecosystem Ecology Section
2013 – 2018	Lead Organizer, Annual Urban Ecology Research Fair, WCS
2012 – 2018	Web Administrator, Ecological Society of America's Urban Ecosystem Ecology
	Section
2012 – 2015	Co-organizer, Bronx Science Consortium Poster Symposium

# Committees and Working Groups

Member, Green Roofs of NYC Working Group, Department of Environmental
Conservation
Committee Member, Institutional Review Board, WCS
Group Member, Gotham Coyote, American Museum of Natural History
Education Lead, Green Roofs of NYC Working Group, Department of
Environmental Conservation and Audubon NYC
Member, Regional Conservation Action Plan (ReCAP) – Built Environment
Working Group, Department of Environmental Conservation
Evaluation Working Group Lead, NSF INCLUDES: Early Engagement in Research:
key to STEM retention, Columbia University
Advisor, Fordham University Environmental Policy Alumni Career Advisory
Board
Graduate Student Representative, Bronx Science Consortium
Graduate Student Representative, Fordham University Louis Calder Center
Planning Committee

## **COMMUNITY OUTREACH**

# Leadership

2016	Designer and Organizer, Native Plant Restoration, Brooklyn Bike Park
2014 – 2016	Curator, Urban Ecology: Studying Urban Biodiversity of NYC, Blog, WCS
2014	Organizer, Prospect Park Zoo Earth Day Celebration, WCS
2012 – 2014	Founder and Curator, Fordham Urban Sustainability and Ecosystems, Blog,
	Fordham University
2012	Founder, St. Rose's Community Garden and Community Supported Agriculture

2011 2012	(still active), Fordham University
2011-2012	Chaperone, Global Outreach Program (service learning), Fordham University
Talks	
2017	Wildlife and wild places of New York City, Port Washington Garden Club, Port
	Washington, NY
2016	My road to science and the nature of urban ecosystems, Staten Island School
	for Civic Leadership, Staten Island, NY
2016	Maintaining nature in urban ecosystems: The structure and function of green
	roofs, Second District Federated Garden Clubs of New York, Yaphank, NY
2014	Green Roofs in Urban and Suburban Ecosystems, Great Neck Garden Club,
	Great Neck, NY
2014	Discovering Ecology of the Urban Jungle, Long Island Chapter of the Adirondack
	Mountain Club, Dix Hills, NY
2013	Plants of the Urban Jungle, Port Washington Garden Club, Port Washington, NY
2012	Plants of the Urban Jungle, Rocky Point Rotary, Rocky Point, NY
2012	Green infrastructure, Girl Scout Troup 161, Bronx, NY
2012	Green roofs, what are they?, Bronx River Alliance, Bronx, NY
MEDIA COVERA	AGE
2019	Online video, "Citizen Science Story: Project TRUE", PBS Nature Clip, New York,
	NY, USA
2017	Online magazine, "For New York's teen ecologists, even the cemetery is a
	laboratory", The New Yorker, New York, NY, USA
2014	Radio Interview, "Ecology in the concrete jungle", Fordham Conversations,
	WFUV 90.1 FM, Bronx, NY, USA
2012	Periodical, "From weeds to a healthy harvest at Fordham", The
	Bronx Ink, Bronx, NY, USA
2011	Periodical, "Fruitful harvest of unseeded rooftop colonies", Nature
2011	News
2011	Radio Interview, "View from above", EarthBeat Radio, Radio Netherlands Worldwide
2011	Video Interview, "Small farms in a big city", OnEarth.org
2011	video interview, Sman farms in a big city, OnLartin.org
PROFESSIONAL	L DEVELOPMENT
2017-2018	Diversity, Equity, and Inclusion, WCS
2017	Communicating Effectively in the Workplace, WCS University
2017	Trained Facilitator of Entering Mentoring, National Research Mentoring
	Network, University of Wisconsin-Madison
2016	Education Department New Educator Orientation, WCS
2014	SENCER Summer Institute
2008	Outdoor Education Methods (Graduate), Introduction to Environmental
	Education (Graduate), Glean Helen Ecology Institute, Antioch University New
	England

#### **PROFESSIONAL SKILLS**

Experimental and statistical design

R Environment (expertise in mixed models, multivariate analyses, and ggplot)

#### NON-PEER REVIEWED PUBLICATIONS

## **Reports and Technical Papers**

Dunifon, S.M., Johnson, B., **Aloisio, J.M.** 2017. Evaluating the impacts of semi-facilitated educational experiences on visitor engagement with zoo exhibits. *International Zoo Educators Association Journal* **34**:37-53

Dunifon, S., Johnson, B., **Aloisio, J.M.** Quest program may increase visitor stay time in world of birds, Neornithes New: a newsletter from the Department of Ornithology, WCS. Bronx Zoo, Volume 4, Issue 2: April, 2017

**Aloisio, J.M.** 2017. Rooftop Plants: Community and Nutrient Dynamics of New York City Green Roofs, *Dissertation*.

#### **Popular**

**Aloisio, J.M.**, Eberhard, E., Tingley, K. Project TRUE (Teens Researching Urban Ecology) STEMforall2019.videohall.com, May 2019

Aloisio, J.M. Discover a warbler, inspire a generation, wilfeview.org, December 2017

Aloisio, J.M. The Purple Marsh Crab, wilfeview.org, June 2017

Aloisio, J.M. A Wiley Coyote, wilfeview.org, January 2017

**Aloisio, J.M.** Project TRUE: Teens Researching Urban Ecology: Solving Program Through Partnerships, *Informalscience.org*, July 2015

#### PROFESSIONAL MEMBERSHIPS

Ecological Society of America (+ Urban Ecosystem Ecology Section), United States of America Cycling (USAC)

#### **GRADUATE ADVISORS**

J.D. Lewis, A. R. Tuininga

## **NON-ACADEMIC**

#### **Competitive Sport**

2019 7th Cat 1 30-34, MTB Marathon USA National Championships

2019 1st Open Endurance, Mooch Madness

2018 2<sup>nd</sup> Open Under 45, Rocky Point 50, Rocky Point, NY

2018 2<sup>nd</sup> Cat 1 19-39, Churney Gurney, NYS MTB Series #3, Queensbury, NY

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2018 9th Cat 1 19-39, Gnar Weasels – Bubba Trophy Series #4, Ascutney, VT
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- 2018 2<sup>nd</sup> Open Under 45, H2H Endurance Series
- 2018 5<sup>th</sup> Overall, 5K River Run, Callicoon, NY
- 2018 1st Overall, Shoreham Wading-River 4th of July 5K, Shoreham, NY
- 2018 2<sup>nd</sup> Open Under 45, Bulldog Rump, Andover, NJ
- 2018 3<sup>rd</sup> Open Under 45, Lewis Morris Challenge, Mendham, NJ
- 2018 1st Cat 1 30-39, The Bicycle Plant MACHO MTB Race "Stillwell woods", Woodbury, NY
- 2018 2<sup>nd</sup> Open Under 45, Ringwood Rumble, Ringwood, NJ
- 2017 1st Cat 2 30-39, Something Wicked, Yaphank, NY
- 2017 2<sup>nd</sup> Cat 2 Overall, Erie 80, Port Jervis, NY
- 2017 3rd Cat 2 Overall, Brand's Muddy Tire, Middle Island, NY
- 2017 5th Cat 2/3 Under 45, Rocky Point 50, Rocky Point NY
- 2017 11th Overall, Peak Woodsplitter 6-Hour Challenge, Pittsfield, VT
- 2017 3<sup>rd</sup> Cat 2 30-39, Kenda Cup East Series Overall
- 2017 6<sup>th</sup> Cat 2 30-39, The Barn Burner Kenda Cup East #6, Walpole, MA
- 2017 2<sup>nd</sup> Cat 2 30-39, Eastern Grind Kenda Cup East #5, Williston, VT
- 2017 6<sup>th</sup> Cat 2 30-39, Gnar Weasels Kenda Cup East #4, Ascutney, VT
- 2017 4<sup>th</sup> Cat 2 30-39, Weeping Willow Kenda Cup East #3, Ipswitch, MA
- 2017 6<sup>th</sup> Cat 2 30-39, Bear Brook Classic Kenda Cup East #2, Allentown, NH
- 2017 7<sup>th</sup> Cat 2 30-39, Fat Tire Classic Kenda Cup East #1, Farmington, CT
- 2016 1st Cat 2, 2nd Annual City Slicker, Queens, NY
- 2016 11<sup>th</sup> Cat 2 (25 mile), Erie 80, Port Jervis, NY
- 2016 4th Overall, 12th Annual Serpents Back Duathlon, Montauk, NY
- 2016 7th Overall, 5K River Run, Callicoon, NY
- 2016 2<sup>nd</sup> Cat 3 30-39, Weeping Willow Kenda Cup East #4, Ipswich, MA
- 2016 2<sup>nd</sup> Cat 3 30-39, Chain Stretcher NY State Mountain Bike Series, Cortland, NY
- 2014 25<sup>th</sup> Overall, SWR Thanksgiving Day 5K, Shoreham, NY
- 2010 17th Overall, Warrior Dash, Windham, NY
- 2010 11th Overall, Schiff Scout Triathlon, Wading-River, NY
- 2009 25th Overall, Schiff Scout Triathlon, Wading-River, NY

## **Adventure Sport**

- 2020 Cycled from 7,000 miles self-supported from NYC to Chile from October 2019 to March 2020 as coronavirus pandemic surged.
- 2019 Cycling Scientists' Wild Ride for Safe Access to Parks in NYC Rode 290 miles in Central Park in one day to raise awareness for safe bike lane access to Central Park.
- 2018 Self-supported MTB ride on the Chesapeake and Ohio Canal Path from Washington D.C. to the Cumberland gap and back (400 miles) in 4 days.
- 2010 Go (all 400 miles) Green, Rode 400 miles in four days from NYC to Pittsburg, PA to attend the annual Ecological Society of America Conference.