**SAMANTHA K. CHAPMAN**

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# Professional Experience

**Associate Professor, Villanova University** 2013-present

 Department of Biology, Villanova University, Villanova, PA

**Assistant Professor, Villanova University** 2007-2013

 Department of Biology, Villanova University, Villanova, PA

**Smithsonian Institution Postdoctoral Fellow**  2005-2007

 Smithsonian Environmental Research Center, Edgewater, MD

# Education

## Northern Arizona University, Flagstaff, AZ 2002-2005 Ph.D. in Biology

## Northern Arizona University, Flagstaff, AZ 1999-2002

 M.S. in Biology

The Pennsylvania State University**,** State College, PA 1994-1998

 B.S. in Biology (emphasis Ecology), Schreyer Honors College

# Peer-reviewed Publications

**Chapman, S.K**., M.A. Hayes, B. Kelly, J.A. Langley. *In revision at Biology Letters* *as part of a special feature on Blue Carbon*. What is the oxygen sensitivity of coastal wetland carbon mineralization?

Langley, J.A. **S.K. Chapman** and 17 other authors. *In press*. Ambient changes exceed treatment effects on plant species abundance in global change experiments. Global Change Biology

Coldren, G.A. Langley, J.A. Feller, I.C. and **S.K. Chapman**. 2018*.* Warming accelerates mangrove expansion and surface elevation gain in a subtropical wetland. Journal of Ecology DOI: 10.1111/1365-2745.13049

Kittredge, H.A.\*\*, T. Cannone\*\*, J. Funk\*, **S.K. Chapman***.* 2018. Soil respiration and extracellular enzyme production respond differently across seasons to elevated temperatures. Plant and Soil. https://doi.org/10.1007/s11104-018-3591-z

Barreto, C.R.\*, E. M. Morrissey, D.D. Wykoff, and **S.K. Chapman**. 2018. Co-occuring mangroves and salt marshes differ in microbial community composition. Wetlands. https://doi.org/10.1007/s13157-018-0994-9

Doughty C.D.\* K. C. Cavanaugh, C.R. Hall, I.C. Feller, **S.K. Chapman**, 2017. Impacts of mangrove encroachment and mosquito impoundment management on coastal protection services. Hydrobiologia DOI 10.1007/s10750-017-3225-0

Coldren, G.A. C. Barreto\*, D. Wykoff, E. Morrissey, J.A. Langley, I.C. Feller, **S.K. Chapman**. 2016. Chronic warming stimulates growth of marsh grasses more than mangroves in a coastal wetland ecotone. Ecology http://doi.wiley.com/10.1002/ecy.1539

Megonigal, J.P. **S.K. Chapman***,* S. Crooks, P. Dijkstra, M. Kirwan, J.A. Langley2016. Impacts and effects of ocean warming on tidal marsh and tidal freshwater forest ecosystems*.* In: Laffoley, D., & Baxter, J.M. (editors). Explaining ocean warming: Causes, scale, effects and consequences. Full report. Gland, Switzerland: IUCN. pp. 105-120.

**Chapman, S.K**. K.A. Devine\*\*, C. Curran\*\*, R.O. Jones\* and F.S. Gilliam. 2016*.*

Impacts of soil nitrogen and carbon additions on forest understory communities with a nitrogen long-deposition history. Ecosystems 19: 142-154 DOI 10.1007/s10021-015-9922-5

Fernandez, C.W. J.A. Langley, **S.K. Chapman**, L. McCormack, R. Koide. 2016. The decomposition dynamics of ectomycorrhizal fungal necromass. Soil Biology and Biochemistry 93: 38–49

Doughty, C.L. \* J. A. Langley, W.S. Walker, I.C. Feller, R. Schaub, and **S.K. Chapman**. 2016. Mangrove range expansion rapidly increases coastal wetland carbon storage. Estuaries and Coasts DOI 10.1007/s12237-015-9993-8

Langley, J.A. H.K. White, R.U. Palanivel\*\*, T. Shannon, and **S.K. Chapman**. 2015. Marsh plants mediate the influence of nitrogen fertilization on the degradation of oil from the Deepwater Horizon oil spill. Ecosphere 6: art126.

Fischer, D.G., **S.K. Chapman**, A.T. Classen, J.A. Schweitzer, K.C. Grady, C.A. Gehring, T.G. Whitham. 2014. Plant genetic effects on soils under climatic change. Plant and Soil 379: 1-19.

Wooliver R. J.K. Senior, J.A. Schweitzer, J. O'Reilly-Wapstra, **S.K. Chapman**, J.A. Langley, J.K. Bailey. 2014. Evolutionary History and Novel Biotic Interactions Determine Plant Responses to Elevated CO2 and Nitrogen Fertilization. PlosOne DOI: 10.1371/journal.pone.0114596

Genung M.A., J.K. Senior, J O'Reilly-Wapstra**, S.K. Chapman**, A Langley, JA Schweitzer, JK Bailey. 2014. When ranges collide: Evolutionary history, phylogenetic community interactions, global change factors and range size differentially affect plant productivity. Invited to "Eco-evolutionary Dynamics" Advances in Ecological Research Vol 50, Article 0009, Academic Press. doi: 10.1016/B978-0-12-801374-8.00009-8

Feller, I.C., A.H Chamberlain, C. Piou, **S. K. Chapman**, and C.E. Lovelock. 2013 Latitudinal patterns of herbivory in mangrove forests: consequences of nutrient over-enrichment. Ecosystems 16: 1203-1215.

Classen, A.T., **S.K. Chapman**, T.G. Whitham, S.C. Hart, and G.W. Koch. 2013. Long-term insect herbivory slows tree growth and soil development in an arid ecosystem. Ecosphere 4(5), article 52.

**Chapman, S.K.** G.S. Newman, S.C. Hart, J.A. Schweitzer, and G.W. Koch. 2013. Leaf litter mixtures alter microbial community development: mechanisms for non-additive effects in litter decomposition. PLOS One 8(4): e62671.

**Chapman, S.K.** R.U. Palanivel\*\* and J. Adam Langley. 2012*.* Soil carbon stability responds to land-use and groundcover management in Southern Appalachian agro-ecosystems**.** Soil Science Society of American Journal 76:2221–2229.

Senior, J.\*, J.A. Schweitzer, J. OReilly, D. Steane, J.A. Langley, **S.K. Chapman**, J.K. Bailey. 2012. Phylogeny drives response of forest trees to global change. PLOS One 8(4): e60088

Simpson, L.T.\* I.C. Feller and **S.K. Chapman.** 2012**.** Effects of competition and nutrient enrichment on *Avicennia germinans* in the salt marsh-mangrove ecotone. Aquatic Botany 104: 55-59

Jones, R.O.\* and **S.K. Chapman.** 2011. The roles of biotic resistance and nitrogen deposition in regulating non-native understory plant diversity. Plant and Soil 345:257–269.

**Chapman, S.K.** and I.C. Feller. 2011. Away-field advantage: mangrove seedlings grow best in litter from other mangrove species. Oikos 120:1880-1888.

**Chapman, S.K**. and G.S. Newman. 2010. Biodiversity at the plant-soil interface: Microbial abundance and community structure respond to litter mixing. Oecologia 162:763–769.

**Chapman, S.K.** and G.W. Koch. 2007. What type of biodiversity yields synergy during mixed litter decomposition in a natural forest ecosystem?

Plant and Soil 299:153–162.

Classen A.T., **S.K. Chapman** , T.G. Whitham, S.C. Hart, and G.W. Koch. 2007.

Genetic-based plant resistance and susceptibility traits to herbivory influence needle and root litter nutrient dynamics. Journal of Ecology 95:1181-1194.

**Chapman, S.K.#**, J.A. Schweitzer#, and T.G. Whitham*.* 2006*.* Herbivory differentially alters plant litter dynamics of evergreen and deciduous trees. Oikos 114: 566-574. #both authors contributed equally to ms.

# Chapman, S.K., J.A. Langley, S.C. Hart, and G.W. Koch*.* 2006. Plants actively control nitrogen cycling: uncorking the microbial bottleneck. New Phytologist 169: 27-34.

Langley J.A., **S.K.** **Chapman,** and B.A.Hungate. 2006. Ectomycorrhizal colonization slows root decomposition: the *post-mortem* fungal legacy. Ecology Letters9:955-959.

Schweitzer, J.A., J.K. Bailey, S.C. Hart, G.M. Wimp, **S.K. Chapman**, and T.G. Whitham. 2005. Plant genotype and herbivory in a dominant tree decelerate leaf litter decomposition and alter nutrient dynamics. Oikos 10: 133-145.

**Chapman, S.K**., S.C. Hart, N.S. Cobb, T.G. Whitham, and G.W. Koch. 2003. Herbivory increases litter quality and decomposition: an extension of the acceleration hypothesis. Ecology 84: 2867-2876.

\* graduate student author

\*\*undergraduate student author

# Other Publications

Megonigal, P.A., **S.K. Chapman**, M. Kirwan. J.A. Langley, P. Dijkstra, S. Crooks, to be released September 15, 2018. Coastal Wetland Responses to Warmingin*A Blue Carbon Primer: The State of Coastal Westland Carbon Science, Practice and Policy*. by L. Windham-Myers, S. Crooks and T.G. Troxler. CRC Press.

**Chapman, S.K.** 2018. Mangroves protect coastlines, store carbon –and are expanding with climate change. *The Conversation.* <https://theconversation.com/mangroves-protect-coastlines-store-carbon-and-are-expanding-with-climate-change-81445>

**Chapman, S.K.** 2015. Commentary on Notable Articles in Ecology. ESA Centennial Celebration.

**Chapman, S.K.**, H. Tran, and C. L. Doughty. 2014. Climate adaptation at Kennedy Space Center: How Can Wetlands Help NASA Adapt to Warming Temperature and Rising Seas? *Wetland Science and Practice* 31(2): 6-8.

**Chapman, S.K.** 2012. Case study box in *Methods on Forest Canopy Research* by M.D. Lowman, T.D. Schowalter, and J. Franklin. University of California Press.

# Awarded Grants

PI- NSF Ecosystem Science with Co-PI’s M. Hester, J. Morris, A. Langley and C. Feller. Collaborative Research RUI: The influence of mangrove invasion and rising temperatures on belowground processes in coastal ecosystems. $894,633 (Villanova share- $**552,663).** 2017-2020 (+ 2018 REU supplement of $10,600)

PI-NASA ROSES with I.C. Feller, J.A. Langley and W. Walker. Mangroves marching northward: the impacts of rising seas and temperatures on ecosystems at Kennedy Space Center. **$298,228**. 2012-2015, extension to 2016

PI-USDA Forest Service RSJVA with J. Hom. Interactions of invasive insects, wildfire and climate change: Mechanisms, processes and adaptations on forest productivity, composition and decline*.* **$68,442.** 2010-2014

Co-PI NSF RAPID with J.A. Langley. Manipulating plant and microbial resource environment to optimize oil degradation in coastal marshes. **$116,543**. 2010-2012

PI-USDA-CSREES-NRI Managed Ecosystems with J.A. Langley. Christmas Trees and

Soil Carbon Storage: Maximizing Ecosystem Management and Sustainability in A Future Carbon Economy. **$99,684**. 2008-2010, extension to 2012.

# Pending Grant Proposals

## Co-PI DOE TES with M. Aspinwall (PI), John Parker (co-PI) and Ilka Feller (co-PI)

## Temperature controls of carbon cycling processes in a marsh mangrove ecotone.

## $274,189 (Villanova share)

## Co-PI- DOE TES with J.A. Langley (PI), Melanie Vile (co-PI) and Kel Wieder (co-PI).

##  The oxygen sensitivity of decomposition. $299,852.

# Teaching Experience

## General Biology II for Majors (9 labs; usually 180 students) Spring 2008-

##  2018

## Advanced topics in Ecosystem Ecology Fall semesters

2016, 2014, 2011, 2007

## Valuing Biodiversity: Senior Capstone course Fall, 2015

## Fall, 2012

## Tropical Field Ecology Fall 2009

## Global Change Ecology Fall 2008

## Smithsonian Science Education Academy for Teachers 2006, 2007

# Mentorship

**Current**

Matt Hayes, postdoctoral associate

Tess Adige, graduate student

Emily Geoghegen, graduate student

Tyler Rippel, graduate student

Gifty Abane, graduate student

Drew Freed, senior thesis student

Caitlyn Dittmeier, science communication

Libby O’Brien, undergraduate research assistant

Mark Conforti, undergraduate research assistant

Kristen Post, undergraduate research assistant

Claire Fell, undergraduate research assistant

Nicole Spanier, BS/MS student

Maria Delgado, undergraduate research assistant

Azzeiza Beadle, undergraduate research assistant

**Selected Lab Alumni**

Glenn Coldren, postdoctoral associate 2013-2016

Chelsea Barreto, graduate student 2013-2016

Cheryl Doughty, graduate student 2012-2015

Joe Funk, graduate student 2012-2014

Reggie Kukola, graduate student 2011-2013

Greg Clement, graduate student 2011-2015

Lorae’ Simpson, graduate student and research technician 2008-2011

Rachel Jones, graduate student 2007-2009

Teresa Cannone, senior thesis student 2013-2016

Julie Kurtz, senior thesis student 2013-2015

Heather Kittredge, senior thesis student 2014-2015

Courtney Curran, senior thesis student 2012-2014

Reena Palanivel, senior thesis student 2009-2012

Roger Shaw, research technician 2008

Joyce Li, VURF Freshmen Match research assistant 2015

Nick Bailes, VURF fellowship student 2012

Antonio Pullano, Senior Thesis student, VURF fellowship recipient 2011

Kathryn Devine, Senior Thesis student, VURF fellowship recipient 2011

Anastasia Orkwiszewski, Senior Thesis Student 2008-2009

Bethanne Albert-Bruninga, Undergraduate Research Assistant 2009-2010

Lauren Rajchel, BS/MS rotation student 2011

Susan Hannagan, BS/MS rotation 2010

Erik Scully, BS/MS rotation student 2009

Matt Hom, high school student 2013

Esther Lin, high school student 2010

**Graduate student committees** (past and present, Villanova graduate student if not indicated)

Natalie Howe (Rutgers University), Erica Lawrence (University of Pennsylvania), Brett Butler, Caitlin Bauer, Chuck Hyde, Justin Bernstein, Jeff Weinell, Melissa Pastore, Ben Karin, Jackie Childers, Elyse Freitas, Kevin Neal, Scott Travers, James McQuillan, Gracen Smith, Heather Heinz, Jesse Grismer, Nathan Haag, Martin Fox, Chris Meehan, Bruce DeCotiis, Jenna Maurer, Marcy Howland

Smithsonian Institution Intern Mentor 2005-2007

# Synergistic Activities

Editorial Boards, *Ecology* and *Journal of Ecology*

Co-Investigator CROWN wetland warming project, funded by Chinese Geological Survey, Key Laboratory of Coastal Wetland Biogeosciences, and Dr. Siyuan Ye 2017-present

Member of Research Coordination Network Coastal Carbon Working Group 2018-present

 Member of NASA Climate Adaptation Science Investigators Group, 2012-present

Board of Directors, Soil Ecology Society – member at large 2015-2018

Program Committee and Chair, Parkinson award sub-committee, Soil Ecology Society Meeting 2017

Program Committee MMM4 Meeting, St. Augustine, FL 2016

Organized oral session for 100th anniversary ESA meeting in Baltimore, MD, 2015

Organizing Committee, Soil Ecology Society International Meeting, 2013

Cooperating researcher with the Friends of Ridley Creek organization, 2013-present

Swarthmore College Honors Program Invited Examiner, 2009, 2011

Co-Organized oral and poster symposium at the Coastal and Estuarine Research Federation Meetings in Portland, OR 2009: Dynamics of Mangrove-Saltmarsh Ecosystems in the Face of Climate Change.

Christmas Tree Farms and Soil Carbon Storage: A North American Carbon Program (NACP) Affiliated Project. 2008-present

Collaboration with the interdisciplinary researchers working within the

 Smithsonian Marine Science Network

Organized special oral session at the Ecological Society of America meeting in San Jose, CA 2007: Biodiversity in the Litter Layer: Mechanisms and Applications

Educational Outreach volunteer, The Reed Environmental Education Center,

 Smithsonian Institution

Dissertation research was done in association with a team of interdisciplinary

researchers through the Merriam Powell Center for Environmental Research.

# Selected Media Coverage

Radio Interview for NPR show “the Pulse” October 2018

Paper on mangrove warming featured in KYW news, Charleston Courrier Post, Science Daily, Science News for Kids, and E and E news. September-October 2018

Article in The Conversation, February 2018 featured covered in 10+ media outlets (e.g. San Francisco Chronicle, Albany Times-Union, Disaster News Network) and reached over 6000 readers directly.

Article and video in Florida Today, January 2017 on mangrove work at Kennedy Space Center

Letter to the Editor on climate adaptation in Philadelphia Inquirer, March 2017

Interview on PRI’s “The World with Marco Werman on IUCN ocean warming report September 2016

Interview on NPR- WHYY show “The Pulse” on coastal wetland research March 2015

Blurb on Christmas tree research in Food Network Magazine, December 2013

Paper on Christmas trees and carbon storage featured in an article in Mother Jones “Don't Feel Bad about getting an Xmas Tree” by Sydney Brownstone. December 2012

Interview on KYW News Radio about Christmas tree and carbon storage research, December 2012

Christmas tree and carbon storage research was also featured on Smithsonian Magazine’s blog, on CBS News Philly, on DailyClimate.org, Globalchange.gov, grist.org, and on the SSSAJ website.

Paper on mangrove seedling growth experiment (Oikos 2011) featured in Aquacultura magazine February 2012 as a guideline for mangrove restoration in shrimp farms in April 2012.

Soil carbon storage in Christmas tree farms research project featured in “Limbs and Needles,” the North Carolina Christmas Tree Association's quarterly, in 2009.

Evaluation of “Plants actively control nitrogen cycling: uncorking the microbial bottleneck.”Jed Sparks: Faculty of 1000 Biology, 23 Feb 2006 http://www.f1000biology.com/article/id/1031083/evaluation

Publication in Oikos 2006 featured in Smithsonian Environmental Research Center’s quarterly report, Fall 2006

# Honors and Fellowships

Anne Quinn Welsh Honors Faculty Fellow, Villanova University 2017-2019

Smithsonian Institution Postdoctoral Fellowship 2005-2007

American Association for the Advancement of Science (AAAS) 2007

 Science and Technology Policy Fellowship Finalist

(declined)

Presidential Management Fellowship Finalist (declined) 2007

Selected Participant, National Science Foundation/UMBC 2006

 ADVANCE Faculty Horizons workshop

 for aspiring STEM faculty

Outstanding Graduate Student Publication, Northern 2004

 Arizona University Department of Biological Sciences

Smithsonian Marine Station Link Fellowship 2003

Sigma Xi Grant-in-aid of Research 2003

Merriam-Powell Center for Environmental Research 2001-2003 Fellowship

## National Merit Scholar 1994-1998

Schreyer Honors Scholarship, Pennsylvania State University 1994-1998

# Selected Recent Presentations (last 5 years)

Chapman, S.K. *Invited*. 2018. Warming facilitates mangrove encroachment and alters belowground processes. Wetland Biogeochemistry Symposium, Coral Gables, FL

Chapman, S.K. *Invited*. 2017 Wetlands of the future: come hell or high water. Cawthron Institute Nelson, New Zealand

Chapman, S.K. *Invited*. 2017. Symposium on Wetland Global Change Experiments, Dongying, China

Chapman, S.K. *Invited* 2017. Mangroves marching northward: impacts of range shifts and warming on coastal wetlands. Temple University

Chapman, S.K. *Invited* 2017 Mangroves marching northward: impacts of range shifts and warming on coastal wetlands. University of Pennsylvania

Chapman, S.K. *Invited*. 2016. Warming and mangrove encroachment influence wetland belowground dynamics and carbon storage. INTECOL meeting. Changshu, China

Chapman, S.K. 2016. Mangrove encroachment into marshes alters belowground organic matter dynamics with implications for surface elevation. Mangrove and Macrobenthos Meeting 4, St. Augustine, FL

Chapman, S.K. *Invited*. *2015.* Mangroves marching northward: impacts of range shifts on wetland carbon cycling and coastal protection. Center for Macroecology, Evolution and Climate, Copenhagen, Denmark.

Chapman, S.K. *Invited.* 2015.Mangroves marching northward: understanding the implications of plant range shifts for coastal ecosystem services. Rutgers University

Chapman, S.K. *Invited*. 2015. Coastal vegetation adaptation to climate change may benefit Kennedy Space Center carbon cycling and coastal protection. Climate Adaptation Science Investigators Meeting. NASA Headquarters.

Chapman, S.K. *Invited.* 2014.Mangroves marching northward: understanding the implications of plant range shifts for coastal ecosystem services. Yale University

Chapman, S.K. H. White, C. Curran, and J.A. Langley. *Invited.* 2014. Marsh plants mediate the influence of nitrogen fertilization on the degradation of oil from the Deepwater Horizon oil spill. Joint Aquatic Sciences Meeting, Portland, OR

Coldren, G., J.A. Langley, C. E. Proffitt, S.K. Chapman. 2013. Artificial temperature manipulation to simulate climate change in a mangrove and salt marsh system. Coastal and Estuarine Federation Conference. San Diego, CA.

Doughty, C. J. A. Langley and S.K. Chapman. 2013. Climate-induced expansion of the Florida mangrove-marsh ecotone: implications for wetland carbon storage. Coastal and Estuarine Federation Conference. San Diego, CA.

Chapman, S.K. *Invited* 2013. Mangroves marching northward: understanding the implications of species shifts for coastal ecosystems. Penn State University

Chapman, S.K. *Invited.* 2013. Mangroves marching northward: understanding the implications of species shifts for coastal ecosystems. Bryn Mawr College

Dighton, J. Tuninga, A. Gray D., Krumins, J. Chapman, S.K. Nitrogen Deposition and Mycorrhizas; Are Effects Soil dependent? 2013. British Mycological Society. Cardiff, United Kingdom

Funk, J.C. and S.K. Chapman. 2013. Alterations in Phenology and Plant Community Dynamics in Response to a Warming Climate. Soil Ecology Society Meeting, Camden, NJ

Chapman, S.K. 2013. Microbial degradation of Deepwater Horizon oil in salt marshes: Impacts of plant facilitation and nitrogen availability**.** Soil Ecology Society Meeting, Camden, NJ

Kukola, R.K. K.L. Clark, J. Hom, and S.K. Chapman. 2013. Soil nitrogen transformations following a prescribed burn in the New Jersey Pinelands. Soil Ecology Society Meeting, Camden, NJ

# Reviewing

Associate Editor, Journal of Ecology 2018-present

Subject Matter Editor, Ecology and Ecological Monographs 2013-present

Grant Reviewing- National Science Foundation, USDA/DOE/NASA Roses Panel (2)

Journal article reviewing- Ecology Letters, Ecology, Ecosystems, Frontiers in Ecology and the Environment, Functional Ecology, Biology letters, Oecologia, Oikos, Global Change Biology, Journal of Ecology, New Phytologist, Biogeochemistry, Bioscience, Nature Communications, Plant and Soil, Ecosystems, Geoderma, Canadian Journal of Forest Research, Tree Physiology, Ecological Research, Isotopes in Environmental and Heath Studies, Forestry, Agroforestry, Journal of Applied Soil Ecology, etc.

# Departmental, College, and University Service

Honors Council, Anne Quinn Welsh Honors Faculty Fellow 2017- present

Faculty Congress, FRRC Committee 2018- present

Connelly –Delouvrier Scholarship committee 2018

Selected Panelist, Philosophy of Education Panel, Early Action 2009-2017

Candidates Day, Villanova University

Villanova University Summer Research Grant panel 2015-2017

Villanova University Presidential Scholarship Committee 2015-2016 2012-2013

 2011-2012

Faculty Representative to the Standing committee 2016-2017

of the Villanova Board of Trustees on Physical Facilities

 Villanova Fulbright evaluation committee 2016

Hiring committee, Integrative Organismal Biologist 2016

 Department of Biology

Internal CLAS Review Committee, Geography and the Environment 2016

 Department

Highlighted faculty speaker, CRS Campus Climate March 2015

Coordinating Faculty member, Villanova Center for Energy 2013-2015

and Environmental Education

Villanova Rhoads Marshall Scholarship Committee 2013, 2014

Villanova University Undergraduate Research Fellowship Committee 2013, 2018

Co-Chair, Field Safety Committee, College of Arts and Sciences 2011-2012

Villanova Institute for Teaching and Learning 2011-2014

Sciences Advisory Committee

Undergraduate Curriculum Committee, Department of Biology 2012-2014

Graduate Committee, Department of Biology, Villanova University 2011-2012, 2014-present

Commencement Speaker Competition Committee 2012

 College of Arts and Sciences

Co-Chair, Task force committee on the role of science education 2008-2010

 in the core curriculum, College of Liberal Arts and Sciences

Research and Budget Committee, Department of Biology, 2007-2010

Villanova University