

KIHO KIM, PhD

Curriculum Vitae

A. PERSONAL INFORMATION

Department of Environmental Science
American University, Washington DC 20016-8007
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B. EDUCATION

1996 PhD Biology, University at Buffalo, USA (Advisor: [Howard Lasker](#))
1994 MS Biology, Florida International University, USA (Advisor: [Walter Goldberg](#))
1989 BSc Biology & Environmental Studies, Brock University, Canada

C. EMPLOYMENT HISTORY

2015 – Professor, Department of Environmental Science, AU
2015 – 2016 Chair, Department of Environmental Science, AU
2014 – 2016 Inaugural Director, [AU Scholars Program](#), AU
2012 – 2013 Chair, [General Education Program](#), AU
2011 – Affiliate Faculty, [School of Education, Teaching & Health](#), AU
2009 – Affiliate Faculty, Department of Biology, American University
2008 – 2011 Inaugural Chair, Department of Environmental Science, AU
2007 Interim Chair, Department of Biology, AU
2006 – 2015 Associate Professor, Department of Biology, AU
2004 – 2008 Director, Environmental Studies Program, AU
2000 – 2006 Assistant Professor, [Department of Biology](#), American University
1999 – 2000 Research Associate, [Department of Entomology](#), University of Maryland
1999 – 2000 Research Associate, [Center for the Environment](#), Cornell University
1996 – 1999 Postdoctoral Research Associate, [Ecology & Evolutionary Biology](#), Cornell University (Advisor: [Drew Harvell](#))

D. HONORS, AWARDS & APPOINTMENTS

2017 American University *Faculty & Staff Collaboration Award* (inaugural awardee)
2017 *Dean's Impact Award* (inaugural awardee), College of Arts & Sciences, American University
2016 – Committee Member, *Environmental Literacy Advisory Committee*, Office of the State Superintendent of Education, Washington DC
2016 External Program Evaluator, Department of Geography and the Environment, Villanova University
2015 – Member, Editorial Board, [Coral Reefs](#)

- 2013 – 2015 Pool of Experts, Regular Process – United Nations [World Ocean Assessment](#) (co-author, *Chapter 25 Marine Debris*; reviewer, Chapter 20 Land-Based Inputs)
- 2013 – 2017 Recording Secretary & Executive Committee Member, [International Society for Reef Studies](#)
- 2013 *Green Teacher of the Year Award*, American University
- 2013 *Ann Ferren Curriculum Design Award* (inaugural awardee), American University
- 2012 – 2013 STEM Advisory Board, District of Columbia Public Schools
- 2011 *Teaching with Research Award*, American University
- 2011 External Program Evaluator, *Environmental Science & Policy Graduate Program*, University of South Florida - St. Petersburg
- 2009 – 2013 Council Member, [International Society for Reef Studies](#)
- 2009 Guest Editor, *Diseases of Aquatic Organisms* (special volume)
- 2007 – 2008 Member, Committee on *Effectiveness of International and National Measures to Prevent and Reduce Marine Debris and its Impacts*, National Research Council of the National Academies
- 2007 – 2012 Member, [Ocean Studies Board](#) of the National Academies, USA

E. PUBLICATIONS

Summary: 36 Journal Articles; 6 Book Chapters; 2 Report; 3 Conference Proceedings; 1 Book Review. Total citations = 4,124; h-index = 27 (as of 4/29/18, [Google Scholar Profile](#))

(*graduate student, **undergraduate student, §corresponding author)

i. Journal Articles

(in review) LaRoche C**, BR Goldstein**, JD Cybulski*, LJ Raymundo, LR Aoki & **K Kim**§. A decade of change in *Enhalus acoroides* seagrass meadows in Guam, Commonwealth of the Northern Mariana Islands.

(in review) Geeraert N, NM Duprey, S McIlroy, PD Thompson, BR Goldstein**, C LaRoche**, **K Kim**, LJ Raymundo & DM Baker. The anthropogenic nitrogen footprint of a tropical lagoon: spatial variability in *Padina* $\delta^{15}\text{N}$.

37. Bacalan V*, T Poinssatte**, DM Baker, ML Fogel & K Kim§ (2018) Stable isotope analyses of manatee bones measure historical nitrogen pollution in Florida waters, 1975 – 2010. *Marine Biology* doi.org/10.1007/s00227-018-3349-4
36. Duprey N, XT Wang, PD Thompson, J Pleadwell, LJ Raymundo, **K Kim**, DM Sigman & DM Baker (2017) Life and death of a sewage treatment plant recorded in a coral skeleton $\delta^{15}\text{N}$ record. *Marine Pollution Bulletin* [[article link](#)][[popular press](#)]
35. Baker D, C Freeman, N Knowlton, R Thacker, **K Kim** & M Fogel (2015) Productivity links morphology, symbiont specificity, and bleaching in the evolution of Caribbean octocoral symbioses. *ISME Journal* 9: 2620–2629 [[article link](#)]
34. Pinkerton K*, DM Baker, MR Cuddy**, LJ Raymundo, KA Meyer** & **K Kim**§ (2015) Nitrogen dynamics on Guam as revealed by the seagrass *Enhalus acoroides*. *Marine Ecology Progress Series* 528: 117–126 [[article link](#)]

33. MacAvoy SE, V Bacalan*, M Kazantseva, J Rhodes & **K Kim** (2015) Sulfur isotopes show importance of freshwater primary production for Florida manatees. *Marine Mammal Science* 31: 720–725 [[article link](#)]
32. Redding JR*, RL Myers-Miller, DM Baker, M Fogel, LJ Raymundo & **K Kim**§ (2013) Link between sewage-derived nitrogen pollution and coral disease severity in Guam. *Marine Pollution Bulletin* 73: 57-63 [[article link](#)]
31. Harrison G*, **K Kim** & AG Collins (2013) Low genetics diversity of the putatively introduced, brackish water hydrozoan, *Blackfordia virginica* (Leptothecata, Blackfordiidae), throughout the United States, with a new record for Lake Pontchartrain, Louisiana. *Proceedings of the Biological Society of Washington* 126: 91-102 [[article link](#)]
30. **Kim K**§ & S Morawski** (2013) Going trayless in a University dining hall. *Journal of Hunger and Environmental Nutrition* 7: 482-486 [[article link](#)]
29. Baker DM, **K Kim**, JP Andras & JD Sparks (2011) Light-mediated ¹⁵N fractionation in Caribbean gorgonian octocorals: Implications for pollution monitoring. *Coral Reefs* 30: 709-717 [[article link](#)]
28. Bruno JB, S Ellner, I Vu, **Kim K** & CD Harvell (2011) Impacts of aspergillosis on sea fan coral demography: Modeling a moving target. *Ecological Monographs* 81: 123-139 [[article link](#)]
27. Baker DM, KL Webster* & **K Kim**§ (2010) Caribbean octocorals record changing carbon and nitrogen sources from 1862–2005. *Global Change Biology* 16: 2701-2710 [[article link](#)]
26. **Kim K**§, C Paige & CD Harvell (2009) The role of environment and microorganisms in diseases of corals: overview of DAO Special 5. *Diseases of Aquatic Organisms* 87: 1-3 [[article link](#)]
25. Baker DM*, SE MacAvoy & **K Kim**§ (2007). The relationship between water quality, δ¹⁵N, and aspergillosis of Caribbean sea fan corals. *Marine Ecology Progress Series* 343: 123-130 [[article link](#)]
24. Ward JR, **K Kim** & Harvell CD (2007) Temperature affects coral disease resistance and pathogen growth. *Marine Ecology Progress Series* 329: 115-121 [[article link](#)]
23. **Kim K**§, AP Alker, K Shuster**, C Quirolo & CD Harvell (2006) Longitudinal study of aspergillosis of sea fan corals. *Diseases of Aquatic Organisms* 69: 95-99 [[article link](#)]
22. Gil-Agudelo DL, C Myers**, **K Kim** & GW Smith (2006) Changes in the microbial communities associated with *Gorgonia ventalina* during Aspergillosis infections. *Diseases of Aquatic Organisms* 69: 89-94 [[article link](#)]
21. Kim E, H Lasker, MA Coffroth & **K Kim** (2004) Morphological and genetic variation across reef habitats in a broadcast-spawning octocoral. *Hydrobiologia* 530/531: 423-432 [[article link](#)]
20. **Kim K**§ & CD Harvell (2004) The rise and fall of a six-year coral-fungal epizootic. *The American Naturalist* 164: S52-S63 [[article link](#)]
19. Alker A, **K Kim**§, D Dube & CD Harvell (2004) Localized induction of a generalized response against multiple biotic agents in Caribbean sea fans. *Coral Reefs* 23: 397-405 [[article link](#)]
18. Harvell CD, R Aronson, N Baron, J Connell, A Dobson, S Ellner, L Gerber, **K Kim**, A Kuris, H McCallum, K Lafferty B McKay, JW Porter, M Pascual, GW Smith, K Sutherland & JR Ward (2004) The rising tide of ocean diseases: Unsolved problems and research priorities. *Frontiers in Ecology and the Environment* 2: 375-382 [[article link](#)]
17. Dube D, **K Kim**, AP Alker & CD Harvell (2002) Size structure and geographic variation in chemical resistance of sea fan corals *Gorgonia ventalina* to a fungal pathogen. *Marine Ecology-Progress Series* 231: 139-150 [[article link](#)]

16. Harvell CD, **K Kim**, C Quirolo, J Weir & GW Smith (2001) Coral bleaching and disease: contributors to 1998 mass mortality in *Briareum asbestinum* (Octocorallia, Gorgonacea). *Hydrobiologia* 460: 97-104 [[article link](#)]
15. Alker AP, GW Smith & **K Kim** (2001) Characterization of *Aspergillus sydowii* (Thom et Church), a fungal pathogen of Caribbean sea fan corals. *Hydrobiologia* 460: 105-111 [[article link](#)]
14. **Kim K**, PD Kim, AP Alker & CD Harvell (2000) Chemical resistance of gorgonian corals against fungal infections. *Marine Biology* 137: 393-401 [[article link](#)]
13. **Kim K**, CD Harvell, PD Kim, GW Smith & SM Merkel (2000) Role of secondary chemistry in fungal disease resistance of sea fans (*Gorgonia* spp.). *Marine Biology* 136: 259-267 [[article link](#)]
12. Harvell CD, **K Kim**, JM Burkholder, RR Colwell, PR Epstein, DJ Grime, EE Hofman, EK Lipp, ADME Osterhaus, RM Overstreet, JW Porter, G Smith & GR Vasta (1999) Emerging marine diseases—climate links and anthropogenic factors. *Science* 285: 1505-1510 [[article link](#)]
11. **Kim K** & HR Lasker (1998) Allometry of resource capture in colonial cnidarians and constraints on modular growth. *Journal of Functional Ecology* 12: 646-654 [[article link](#)]
10. Smith GW, CD Harvell & **K Kim** (1998) Response of sea fans to infection with *Aspergillus* sp. *Revista de Biología Tropical* 5: 205-208
9. Lasker HR, **K Kim** & MA Coffroth (1998) Production, settlement, and survival of plexaurid gorgonian recruits. *Marine Ecology Progress Series* 162:111-123 [[article link](#)]
8. Nagelkerken I, K Buchan, GW Smith, K Bonair, P Bush, J Garzon-Ferreira, L Botero, P Gayle, CD Harvell, C Heberer, **K Kim**, C Petrovic, L Pors & P Yoshioka (1997) Widespread fungal pathogen in Caribbean sea fans: II. Patterns of infection and tissue mortality. *Marine Ecology Progress Series* 160: 255-263 [[article link](#)]
7. **Kim K** & HR Lasker (1997) Flow-mediated resource competition in the suspension feeding gorgonian *Plexaura homomalla* (Esper). *Journal of Experimental Marine Biology and Ecology* 215: 49-64 [[article link](#)]
6. Lasker HR & **K Kim** (1996) Larval development and settlement behavior of the gorgonian coral *Plexaura kuna* (Lasker, Kim and Coffroth). *Journal of Experimental Marine Biology and Ecology* 207: 161-175 [[article link](#)]
5. Lasker HR, **K Kim** & MA Coffroth (1996) Reproductive and genetic variation among Caribbean gorgonians: The differentiation of *Plexaura kuna*, sp. nov. *Bulletin of Marine Science* 58: 277-288 [[article link](#)]
4. Lasker HR, DA Brazeau, J Calderon, MA Coffroth, R Coma & **K Kim** (1996) In situ rates of fertilization among broadcast spawning gorgonian corals. *Biological Bulletin* 190: 45-55 [[article link](#)]
3. **Kim K** (1994) Antimicrobial activity in gorgonian corals (Coelenterata, Octocorallia). *Coral Reefs* 13: 75-80 [[article link](#)]
2. Goldberg WM, TL Hopkins, SM Holl, J Schaefer, KJ Kramer, TD Morgan & **K Kim** (1994) Chemical composition of the sclerotized black coral skeleton (Coelenterata: Antipatharia): A comparison of two species. *Comparative Biochemistry and Physiology* 107B: 633-643 [[article link](#)]
1. **Kim K**, WM Goldberg & GT Taylor (1992) Architectural and mechanical properties of the black coral skeleton (Coelenterata: Antipatharia): A comparison of two species. *Biological Bulletin* 182: 195-209 [[article link](#)]

ii. Book Chapters

6. **Kim K** (2016) Diseases of Octocorals. Pp 410–415, in *Diseases of Corals*. C Woodley et al. (eds) Wiley-Blackwell, Hoboken NJ [[article link](#)]
5. **Kim K** & K Rypien (2016) Aspergillosis of Caribbean Sea Fan Corals, *Gorgonia* spp. Pp 236–241, in *Diseases of Corals*. C Woodley et al. (eds) Wiley-Blackwell, Hoboken NJ [[article link](#)]
4. **Kim K** (2011) Aspergillosis is a fungal disease of sea fans. Pp p 228, in *Tropical Connections: Facts about south Florida's marine environment*. Kruczynski WL & PJ Fletcher (eds). University of Maryland IAN Press, Cambridge MD [[article link](#)]
3. **Kim K** & GW Smith (2005) *Gorgonia-Aspergillus* Pathosystem: Review of a fungal disease affecting Caribbean sea fan corals. Pp 285-292, in *Health and Disease of Aquatic Organisms: Bilateral Perspectives* edited by RC Cipriano, IS Shchelkunov & M Faisal, Living Oceans Foundation #2005-05, Michigan State University Press, East Lansing MI
2. **Kim K**, AP Dobson, FMD Gulland & CD Harvell (2005) Diseases and the Conservation of Marine Diversity. Pp 149-166, in *Marine Conservation Biology* edited by E Norse & L Crowder, Island Press, Washington DC [[article link](#)]
1. **Kim K** & CD Harvell (2002) Aspergillosis of sea fan corals: dynamics in the Florida Keys. Pp 813-824, in *The Everglades, Florida Bay, and Coral Reefs of the Florida Keys: An Ecosystem Handbook*. Porter JW & K Porter (eds), CRC Press, Boca Raton FL [[article link](#)]

iii. Reports

2. Wang J, **Kim K**, Ofiara D, Zhao Y, Bera A, Lohmann R & MC Baker (2016) Chapter 25: Marine Debris. Pp. 698–731 in *Global Reporting and Assessment of the State of the Marine Environment*, United Nations Division for Ocean Affairs and the Law of the Sea [[article link](#)]
1. National Research Council (2008) *Tackling Marine Debris in the 21st Century*. The National Academies Press, Washington DC. Pp 206 [[article link](#)]

iv. Published Conference Proceedings

3. Gil-Agudelo DL, L Ali-Hassan*, **K Kim** & Garriet W Smith (2006) Characterization of coral surface microbiota using metabolic profiling. *Proceedings of the 10th International Coral Reef Symposium* 1: 149-152
2. Clifton KE, **K Kim** & J Wulff (1997) Field guide to the reefs of Caribbean Panama with emphasis on the fauna and flora of western San Blas. *Proceedings of the 8th International Coral Reef Symposium* 1: 167-184
1. Swain TD, **K Kim** & HR Lasker (1997) Use of fluorescence microscopy in an assay of sperm density for the gorgonian coral, *Plexaura kuma*. *Proceedings of the 8th International Coral Reef Symposium* 2: 1341-1344

v. Book Review

1. **Kim K** (2010) *Sea Sick*: Book Review. *Oceanography* 23: 124 [[article link](#)]

F. SPONSORED RESEARCH

Summary: Total of \$2.6 million in extramural support as PI or Co-PI.

- 2017 NOAA – Office for Coastal Management, *Identifying Hotspots of Nitrogen Pollution in Saipan* (PI, \$62,736)
- 2015 NOAA – Fisheries Habitat Conservation Program Office, *Resource Inventory, Resilience, and Historical Change of Reef: Flat Communities Within the Manell-Geus Watershed, Guam's Habitat Focus Area* (Co-PI, \$58,988)
- 2013 NSF – BIO OCE RAPID, *Documenting Bleaching Susceptibility and Resilience in Guam, Micronesia* (PI, \$93,490)
- 2012 NSF – DUE, *From the Laboratory to the Classroom: Building Capacity for Math and Science Teaching in DC* (Co-PI, \$1,884,606)
- 2008 NOAA – Fisheries Habitat Conservation Program Office, *Testing for Links Between Nutrient Pollution and Coral Health and Disease* (Co-I, \$50,000)
- 2006 NOAA – National Undersea Research Center, *The Link Between Coral Hosts, Surface Microbiota and Disease* (PI, \$39,981)
- 2003 US-EPA, *Origins and Impacts of the Sea Fan Aspergillosis Epizootic Explored with Molecular and Field Techniques* (Co-PI, \$11,693)
- 2002 NOAA – National Undersea Research Center, *Impact of Aspergillosis of Sea Fan Corals in the Florida Keys, Rapid Response Support* (Co-PI, ~\$6,000 in diving and other on-site logistic support)
- 2000 NOAA – National Undersea Research Center, *Aspergillosis of sea fans in the Florida Keys: Disease Resistance and Spread* (Co-PI, ~\$20,000 in diving and other on-site logistic support)
- 1998 NSF – BIO OCE, *Disease Resistance in Sea Fan Corals and the Host Range of the Fungal Pathogen* (Co-I, \$450,080)
- 1998 New England BioLabs Foundation: *Host-breadth of Aspergillosis* (Co-I, \$30,000)
- 1998 NOAA – National Undersea Research Center, *Keys-wide Monitoring of a Fungal Epizootic of Sea Fans* (Co-I, \$22,000)

G. STUDENT RESEARCH SUPERVISION / MENTORING

Summary: Supervised 12 graduate (Masters only) and 18 undergraduate students who have garnered 25 national awards.

Student Awards:

- 1 Boren Scholarship [\[link\]](#) (1 total)
- 2 Carnegie Endowment Junior Fellowship Program - Finalist [\[link\]](#) (1 total)
- 3 Critical Languages Scholarship [\[link\]](#) (1 total)
- 4 EPA Greater Research Opportunity Scholarship [\[link\]](#) (1 total)
- 5 Fulbright Scholar [\[link\]](#) (4 total)
- 6 Fulbright Canada – Killam Fellowship [\[link\]](#) (3 total)
- 7 Fulbright – Summer Institute [\[link\]](#) (1 total)
- 8 Fulbright Scholar - Finalist (2 total)
- 9 NOAA Hollings Scholarship [\[link\]](#) (5 total)
- 10 NSF Graduate Research Fellowship [\[link\]](#) (1 total)
- 11 ORISE Fellowship [\[link\]](#) (4 total)
- 12 Udall Undergraduate Scholarship [\[link\]](#) (1 total)

- a. **Current Graduate Students (MS only):** Marissa Swain

Past Students & Current Positions

- John Doherty (MS 2017): PhD Candidate, University of Hong Kong
- Jon Cybulski (MS 2016): PhD Candidate, University of Hong Kong (awarded HKU Presidential Scholarship)
- Susie Vulpas^{1,3,5} (MS 2015): Fulbright Scholar (Indonesia); Marine Program Advisor - Indonesia, Conservation International
- Charise Johnson (MS 2014): Research Associate, Union of Concerned Scientists
- Vince Bacalan¹¹ (MS 2013): Environmental Protection Specialist, US-EPA Headquarters, Washington DC
- Kate Pinkerton¹¹ (MS 2012): Environmental Scientist, US-EPA Region 9 (San Francisco, CA)
- Jamey Redding (MS 2011): Scientist, Earth Resources Technology
- Walker Timme (MS 2010): Science Teacher, Raymond Education Campus, DC
- Genelle Harrison (MS 2010): PhD Candidate, McGill University
- Emily Broderick (MS 2008): Instructor, Yavapai College
- Kirby Webster (MS 2007): Environmental Associate, Skeo Solutions
- Lanna Ali-Hassan (MA 2006): Anthony Wilder Design Build, MD
- Erin Reigh (MS 2006): MD Georgetown Medical School; Allergy & Immunology Fellow - Washington University; Faculty, Dartmouth College
- David Baker (MS 2003): PhD Cornell University; Assistant Professor, University of Hong Kong
- Katherine Bruce¹¹ (MS 2003): Environmental Protection Specialist, US-EPA Headquarters, Washington DC

b. Current Undergraduate Students: Carly LaRoche (BS'18)^{5,6,9}, Benjamin Goldstein (BS'18)⁷, Alex Morris (BS'18), Azua Luo (BS'19)^{9,12}, Amelia Crabtree⁶

Past Students & Current Positions

- Sergio Morales (BS'17)
- Caroline Vill^{6,9} (BS'17): MS Candidate, College of Charleston, SC
- Kelly Donovan (BS 2016): MS Candidate, University of Queensland, Australia
- Daniel Pasquale⁴ (BS 2015): MEng Candidate, Massachusetts Institute of Technology
- Meaghan Cuddy⁸ (BS 2015): MS Candidate, University of Texas - Austin
- Tasia Poinsette^{2,9} (BA 2014): MS Candidate, University of Colorado - Boulder
- Kathryn Meyer^{9,11} (BS 2014): MS University of Michigan; EPA-ORISE Fellow II; Community Engagement and Outreach Manager - NCEAS DataONE
- Alyssa Frederick^{5,10} (BS 2013): PhD Candidate, University of California - Irvine
- Stevia Morawski (BA 2013): Botanist, Aecom
- Gabby Labove (BS 2013): Howard College of Medicine, Washington DC
- Debra Frantz (BA 2011): PA Candidate, Midwestern University
- Kate Pinkerton (BS 2010; MS 2012): Environmental Scientist, US-EPA Region 9 (CA)
- My Nguyen (BS 2009): PhD Candidate, Case Western University
- Jamie Fultz (BS 2008): Edward Via College of Osteopathic Medicine
- Walker Timme (BS, 2007; MS'19): Science Teacher, Raymond Education Campus, Washington DC
- Carey Myers⁵ (BS 2005): MD/PhD Candidate, Jefferson University
- Tahir Jamil (BS 2005): MD Surgeon, ProMedica Physicians General Surgery, Ohio
- Erin Reigh (BS 2004; MS 2006): MD Allergy and Clinical Immunology Specialist, Dartmouth-Hitchcock Medical Center, New Hampshire

- Mike Dema (BA 2002): Assistant City Attorney, St. Petersburg FL
- Kara Shuster (BS 2002): Senior Sustainability Consultant at DNV GL - Energy, Washington DC

c. Non-Research Mentees (last five years):

- Annika Barth (BA'19), Udall Scholarship - Honorable Mention
- Smriti Kumble (BS'17), Gaither Junior Fellows Program - Carnegie Endowment [\[link\]](#)
- Isobel Araujo (BS'18), Udall Scholarship
- Kayla Ma (BA'14), Udall Scholarship
- Stephen Bronskill (BA'12), Udall Scholarship, Truman Finalist

H. TEACHING

Summary: Taught 2,290 students across 100 classes of which 23 courses were new preparations.

i. Courses Taught (bold indicates new course preparation)

| <i>Semester</i> | <i>Course (credit hours)</i> | <i>Enrollment</i> |
|-----------------|---|-------------------|
| 2018-S | ENVS-150 Nature of Earth | 45 |
| 2017-S | Internships & Independent Studies Supervision | 12 |
| 2017-F | ENVS-492 Senior Capstones (3) | 24 |
| 2017-F | Internships & Independent Studies Supervision | 5 |
| 2017-S | ENVS-150 Sustainable Earth (3) | 60 |
| 2017-S | ENVS-396 Marine Ecology & Conservation (3) | 15 |
| 2016-F | ENVS-492 Senior Capstones (3) | 19 |
| 2016-F | ENVS-150UC Sustainable Earth (3) | 13 |
| 2016-S | IDIS-196 AU Scholars Lab - Cuba (1) | 12 |
| 2016-S | ENVS-491, 591 Internship (various) (1.5) | |
| 2015-F | GENED-250 The Marine Environment (3) | 9 |
| 2015-F | IDIS-196 AU Scholars Lab (1) | 9 |
| 2015-F | ENVS-491, 591 Internships (1.5) | 2 |
| 2015-F | <i>Course Release</i> (Dept Chair, AUS Director) (4.5) | |
| 2015-S | ENVS-396 Ecological Applications (3) | 20 |
| 2015-S | <i>Course Release</i> (Director, AU Scholars Program) (3) | |
| 2014-F | ENVS-150UC Sustainable Earth (3) | 16 |
| 2014-F | UCOL-100 University College: Washington Lab (1) | 16 |
| 2014-F | Internships & Independent Studies Supervision | 3 |
| 2014-F | <i>Course Release</i> (Director, AU Scholars Program) (3) | |
| 2014-Su | ENVS-596 Scientific Method and Science Education (3) | 8 |

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| 2014-S | <i>Sabbatical Leave</i> | |
| 2013-F | ENVS-150 Sustainable Earth (3) | 88 |
| 2013-F | ENVS-492 Senior Capstones (3) | 20 |
| 2013-F | Internships & Independent Studies Supervision | 2 |
| 2013-Su | ENVS-596 Scientific Method and Science Education (3) | 6 |
| 2013-S | ENVS-150 Sustainable Earth (3) | 117 |
| 2012-S | UCOL-100 University College: Spring Student Research (1) | 14 |
| 2013-S | UCOL-100 University College: Makengue, Nicaragua Experience (1) | 11 |
| 2013-S | Internships & Independent Studies Supervision | 2 |
| 2013-S | <i>Course Release</i> (Chair, General Education Committee) (3) | |
| 2012 F | ENVS-150UC Sustainable Earth (3) | 14 |
| 2012-F | UCOL-100 University College: Washington Lab (1) | 14 |
| 2012 F | ENVS-150 Sustainable Earth (3) | 64 |
| 2012-F | Internships & Independent Studies Supervision | 1 |
| 2012-S | ENVS-150 Sustainable Earth (3) | 73 |
| 2012-S | UCOL-100 University College: Spring Student Research (1) | 14 |
| 2012-S | Internships & Independent Studies Supervision | 3 |
| 2011-F | ENVS-150 Sustainable Earth (3) | 62 |
| 2011-F | ENVS-150UC Sustainable Earth (3) | 14 |
| 2011-F | UCOL-100 University College: Washington Lab (1) | 14 |
| 2011-F | Internships & Independent Studies Supervision | 2 |
| 2011-F | <i>Course Release</i> (Chair, Department of Environmental Science) (3) | |
| 2011-S | ENVS-596 Practice of Environmentalism: Galapagos (1) | 22 |
| 2011-S | ENVS-572 Topics in Conservation: Marine Conservation | 23 |
| 2011-S | Internships & Independent Studies Supervision | 17 |
| 2011-S | <i>Course Release</i> (Chair, Department of Environmental Science) (3) | |
| 2010-F | ENVS-150UC Sustainable Earth (3) | 16 |
| 2010-F | ENVS-492 ENVS Senior Capstones (3) | 14 |
| 2010-F | Internships & Independent Studies Supervision | 14 |
| 2010-Su | Internships & Independent Studies Supervision | 4 |
| 2010-S | ENVS-596 Practice of Environmentalism: Galapagos (3) | 24 |
| 2010-S | Internships & Independent Studies Supervision | 8 |
| 2009-F | GENED-150UC Sustainable Earth (3) | 19 |
| 2009-F | UCOL-100 University College Washington Lab (1) | 19 |
| 2009-F | Internships & Independent Studies Supervision | 10 |
| 2009-F | <i>Course Release</i> (Chair, Department of Environmental Science) (3) | |
| 2009-Su | Internships & Independent Studies Supervision | 2 |
| 2009-S | ENVS-102LC Seminar in Environmental Issues (1) | 25 |

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| 2009-S | ENVS-596 Practice of Environmentalism: Galapagos (3) | 24 |
| 2009-S | Internships & Independent Studies Supervision | 9 |
| 2008-F | ENVS-102LC Seminar in Environmental Issues (1) | 15 |
| 2008-F | ENVS-580 Environmental Science I (3) | 27 |
| 2008-F | Internships & Independent Studies Supervision | 9 |
| 2008-F | <i>Course Release</i> (Chair, Department of Environmental Science) (3) | |
| 2008-Su | Internships & Independent Studies Supervision | 4 |
| 2008-S | BIO-697 Research Methods (3) | 13 |
| 2008-S | <i>Course Release</i> (Interim Chair, Department of Biology) (3) | |
| 2008-S | Internships & Independent Studies Supervision | 7 |
| 2007-F | BIO-340 Marine Biology (3) | 20 |
| 2007-F | <i>Course Release</i> (University Senate) (3) | |
| 2007-F | Internships & Independent Studies Supervision | 7 |
| 2007-Su | Internships & Independent Studies Supervision | 2 |
| 2007-S | BIO-697 Research Methods (3) | 12 |
| 2007-S | Internships & Independent Studies Supervision | 4 |
| 2007-S | <i>Course Release</i> (overload from previous semester) | |
| 2007-S | <i>Course Release</i> (University Senate) (3) | |
| 2006-F | Internships & Independent Studies Supervision | 4 |
| 2006-F | <i>Sabbatical Leave</i> | |
| 2006-S | BIO-240G Oceanography (3) | 42 |
| 2006-S | BIO-240G Oceanography (3) | 40 |
| 2006-S | BIO-100G Great Experiments in Biology (3) | 74 |
| 2006-S | BIO-100G Great Experiments in Biology (3) | 73 |
| 2006-S | Internships & Independent Studies Supervision | 4 |
| 2005-F | BIO-240G Oceanography (3) | 40 |
| 2005-F | BIO-100G Great Experiments in Biology (3) | 75 |
| 2005-F | Internships & Independent Studies Supervision | 5 |
| 2005-S | ENVS-104 Issues in Marine Science (1) | 18 |
| 2005-S | BIO-210 General Biology II (3) | 35 |
| 2005-S | BIO-240 Oceanography (3) | 42 |
| 2005-S | ENVS-396 Natural History of the Florida Keys (1) | 8 |
| 2005-S | ENVS-596 Ecology of Infectious Diseases (3) | 26 |
| 2005-S | Internships & Independent Studies Supervision | 4 |
| 2004-F | ENVS-102 Seminar in Environmental Issues (1) | 18 |
| 2004-F | BIO-240 Oceanography (3) | 44 |
| 2004-F | BIO-340 Marine Biology (3) | 19 |
| 2004-F | Internships & Independent Studies Supervision | 2 |

| | | |
|---------------|---|-----------|
| 2004-S | ENVS-102 Seminar in Environmental Issues (1) | 17 |
| 2004-S | BIO-240 Oceanography (3) | 42 |
| 2004-S | BIO-210 General Biology II (3) | 32 |
| 2004-S | Internships & Independent Studies Supervision | 1 |
| 2003-F | BIO-240 Oceanography (3) | 44 |
| 2003-S | BIO-210 General Biology II – Honors (3) | 9 |
| 2003-S | BIO-240 Oceanography (3) | 40 |
| 2002-F | BIO-240 Oceanography (3) | 44 |
| 2002-F | <i>Course Release</i> (Junior Faculty Teaching Release Program) (6) | |
| 2002-S | BIO-210 General Biology II (3) | 12 |
| 2002-S | BIO-210 General Biology II – Honors (3) | 5 |
| 2002-S | BIO-240 Oceanography (3) | 40 |
| 2002-S | Internships & Independent Studies Supervision | 2 |
| 2001-F | BIO-240 Oceanography (3) | 48 |
| 2001-F | BIO-563 Terrestrial Field Methods (3) | 18 |
| 2001-S | BIO-240 Oceanography (3) | 44 |
| 2001-S | BIO-340 Marine Biology (3) | 9 |
| 2000-F | BIO-100 Great Experiments in Biology (3) | 72 |
| 2000-F | BIO-240 Oceanography (3) | 45 |

I. SERVICE

Summary: I have been deeply involved in service at all levels at my university, in my professional capacity, and in the broader community. Highlights include establishing and serving as the inaugural chair of the *Department of Environmental Science*, serving on the University Senate, *Ocean Studies Board* of the National Academies (two terms), executive board of the *International Society for Reef Studies*, AU Presidential Search Committee, AU Athletics Director Search Committee, and volunteering as coach of a local high school *Ocean Sciences Bowl* team.

(D = Department.; C = College; U = University, P = Professional, O = Outreach)

2017/18

(D) Mentor, CAS Junior Faculty Mentoring Program (Michael Alonzo, Valentina Aquila, Karen Knee)

(D) Director of Undergraduate Studies Program

(C) Member, Search Committee – Associate Dean for Research, CAS

(C) Steering Committee, *Optics Olympiad* (part of G. Harry's NSF Career Grant)

(U) Member, *Future Walk* - President Burwell Inauguration Celebration Committee

(U) Member, *Faculty Development Leadership Cohort* (inaugural) for *Diversity & Inclusion*

(U) Participant, *Resiliency Assessment Workshop*, Office of Sustainability

(U) Interview Panelist, *UK Fulbright/Marshall Programs*, Office of Merit Awards

- (U) Liaison, [Airlie Center Academic Programming](#)
- (U) Selection Panel, Udall Nominations, Office of Merit Awards
- (U) Participant, Skills Initiative Video: *Critical Thinking*, AU Career Center
- (U) Participant, Story Video: *The AU Faculty*, Office of Enrollment Admissions App
- (U) Panelist, *Being a Student of Color at AU*, Office of Student Life
- (U) Member, AU Strategic Planning Subcommittee, Areas of Excellence
- (U) Interviewee, AU Carbon Neutrality Announcement Video

2016/17

- (D) Mentor, CAS Junior Faculty Mentoring (Karen Knee)
- (D) Director of Undergraduate Studies Program
- (D) Member, Rank & Tenure Committee
- (C) Steering Committee, *Optics Olympiad* (part of G. Harry's NSF Career Grant)
- (C) Member, CAS PhD Program Development Committee
- (C) Panelist, Film *Age of Consequences*
- (U) Member, AU Presidential Search Committee
- (U) Steering Committee, *ECollaborative*
- (U) Member, Search Committee – Merit Awards Advisor, Office of Merit Awards
- (U) Airlie Academic Development Plan (in support of VP of Office of Development)
- (U) Panelist, *Success Stories: Why What Faculty Do Makes a Difference*, Ann Ferren Conference
- (U) Selection Panel: Udall, Fulbright Scholars, UK Scholarships, Office of Merit Awards
- (P) Member, Editorial Board, *Coral Reefs*
- (P) Recording Secretary, *International Society of Reef Studies*
- (P) Grant Reviewer: National Geographic
- (O) Member, *Environmental Literacy Advisory Committee*, Office of the State Superintendent of Education, DC

2015/16

- (D) Chair, Tenure-Track Search Committee, ENVS
- (D) Chair, Department of Environmental Science
- (D) Director of Undergraduate Studies Program
- (D) Member, Rank & Tenure Committee
- (C) Member, CAS PhD Program Development Committee
- (C) Judge, Mathias Student Conference
- (U) Panel Member, *Teaching First Year Students: Challenges and Opportunities*, Center for Teaching, Research and Learning, Noontime Conversation Event
- (U) Lead, Curriculum Development: *Study Abroad in Kenya* for ENVS Students
- (U) Director, AU Scholars Program
- (U) Steering Committee, *ECollaborative*
- (U) Member, Reinventing the Student Experience (RiSE) Retreat Planning Committee
- (U) Selection Panel, Udall Scholars, Office of Merit Awards
- (P) Member, Editorial Board, *Coral Reefs*
- (P) Recording Secretary, *International Society of Reef Studies*
- (O) Member, *Environmental Literacy Advisory Committee*, Office of the State Superintendent of Education, DC

2014/15

- (D) Chair, Department of Environmental Science
- (D) Member, ENVS Cluster Faculty Search

- (D) Director of Undergraduate Studies Program
- (D) Member, Rank & Tenure Committee
- (C) Speaker, Multicultural Overnight Event
- (U) Director, AU Scholars Program
- (U) Co-Lead, Environmental and Sustainability Collaborative Faculty Research Retreat
- (U) Faculty Advisor, Women's Field Hockey Team (NCAA Division I)
- (P) Member, Editorial Board, *Coral Reefs*
- (P) Recording Secretary, *International Society of Reef Studies*

2014/13 (Sabbatical, Spring 2014)

- (D) Member, Rank & Tenure Committee
- (D) Director of Undergraduate Studies, Department of Environmental Science
- (U) Member, Fulbright Scholars Selection Committee, Office of Merit Award
- (U) Member, Udall Scholars Selection Committee, Office of Merit Award
- (U) Director, AU Scholars Program
- (U) Member, AU Athletics Strategic Plan, *Academic Achievements & Student-Athlete Development*
- (U) Faculty Advisor, Women's Field Hockey Team (NCAA Division I)
- (U) Presenter, *Celebrating Philanthropy* (Baltimore MD)
- (U) Member, *Campus Beautification Day*
- (P) Panel Member: US-AID/NSF PEER Review Program
- (P) Proposal Reviewer: National Geographic
- (P) Manuscript Reviewer: *Diseases of Aquatic Organisms, Coral Reefs*
- (P) Contributing Co-author, United Nations *World Ocean Assessment* Chapter 25: Marine Debris
- (P) Chapter Reviewer, United Nations *World Ocean Assessment* Chapter 20: Land-Based Inputs

2013/12

- (D) Member, Rank & Tenure Committee
- (D) Director of Undergraduate Studies, Department of Environmental Science
- (U) Member, Fulbright & Udall Scholars Selection Committee
- (U) Member, Earth Week Planning Committee
- (U) Member, Sustainability Project Team
- (U) Member, Korean Garden Committee
- (U) Faculty Advisor, Women's Field Hockey Team (NCAA Division I)
- (U) Presenter, *AU Culture WONKs* (Boston MA)
- (P) Contributing Writer, UN World Ocean Assessment Chapter 25: Marine Debris
- (P) Chapter Reviewer, UN World Ocean Assessment Chapter 20: Land-Based Inputs
- (P) Member, DC STEM Advisory Board
- (O) Volunteer Coach, Ocean Sciences Bowl Team, Woodrow Wilson HS (Washington DC)
- (O) Speaker, Smithsonian National Zoo Volunteers Program
- (O) Screening Panelist, *Dirt: A Love Story*, American University

2012/11

- (D) Member, Rank & Tenure Committee
- (D) Director of Undergraduate Studies, Department of Environmental Science
- (U) Member, Search Committee – Directors of Athletics, Department of Athletics & Recreation
- (U) Member, Ad Hoc Honors Committee
- (U) Member, Fulbright & Udall Scholars Selection Committee

- (U) Member, Undergraduate Studies Subcommittee, Middle States Review Self-Study
- (U) Member, Earth Week Planning Committee
- (U) Member, Sustainability Project Team
- (U) Panelist, Undergraduate Research Workshop
- (U) Member, Study Abroad Advisory Committee
- (U) Member, Korean Garden Committee
- (U) Faculty Advisor, Women's Field Hockey Team (NCAA Division I)
- (P) Member, DC STEM Advisory Board
- (O) Volunteer Coach, Ocean Sciences Bowl Team, Woodrow Wilson HS (Washington DC)
- (O) Interviewed about traveller's impact on coral reefs (BBC Travel)
<http://www.bbc.com/travel/blog/20120802-travellers-impact-on-coral-reefs>

2011/10

- (D) Director of Undergraduate Studies, Department of Environmental Science
- (D) Co-Chair, Faculty Search (Ecohydrology), Department of Environmental Science
- (D) Member, Faculty Search (Experimental Physics), Department of Physics
- (D) Member, Rank & Tenure Committee
- (U) Co-Chair, Chair Development Task Force
- (U) Member, Udall Scholars Selection Committee, Office of Merit Awards
- (U) Member, Korean Garden Committee
- (U) Member, Earth Week Planning Committee
- (U) Member, Sustainability Project Team
- (U) Member, Study Abroad Advisory Committee
- (U) Panelist, Undergraduate Research Workshop
- (U) Faculty Advisor, Women's Field Hockey Team (NCAA Division I)
- (P) NSF Review Panel, NSF-NIH *Emerging Infectious Diseases*
- (O) Volunteer Coach, Ocean Sciences Bowl Team, Woodrow Wilson HS (Washington DC)

2010/09

- (D) Member, Environmental Science Faculty Search - Climate Change
- (D) Co-Chair, Environmental Science Faculty Search - Wetlands
- (D) Director of Undergraduate Studies, Department of Environmental Science
- (D) Chair, Environmental Science PhD Program Exploration Committee
- (D) Member, Rank & Tenure Committee
- (C) Member, Educational Programming Committee
- (U) Co-Chair, Departmental Chair Development Task Force
- (U) Member, Advisory Committee, AU Study Abroad Program
- (U) Member, Udall Scholars Selection Committee, Office of Merit Awards
- (U) Member, University Sustainability Project Team
- (U) Participant, *Understanding the Experience of Faculty of Color*
- (U) Faculty Advisor, Women's Field Hockey Team (NCAA Division I)
- (P) NSF Review Panel: NSF-NIH *Emerging Infectious Diseases*
- (O) Volunteer Coach, Ocean Sciences Bowl Team, Woodrow Wilson HS (DC)

2009/08

- (D) Chair, Faculty Search (Wetlands Ecologist), Department of Environmental Science
- (D) Chair, Environmental Science PhD Program Exploration Committee
- (D) Director of Undergraduate Studies, Department of Environmental Science
- (D) Member, Rank & Tenure Committee

- (C) Member, Educational Programing Committee
- (U) Member, University Climate Action Plan Committee
- (U) Co-Chair, Departmental Chair Development Task Force
- (U) Co-Organizer, *What Faculty Want From Chairs*, Anne Ferren Teaching Conference
- (U) Member, Faculty Retreat Planning Committee
- (U) Member, Fulbright Scholars Selection Committee, Office of Merit Awards
- (U) Member, Udall Scholars Selection Committee, Office of Merit Awards
- (U) Member, Undergraduate Research Panel, University Honors Program
- (U) Member, Advisory Committees, AU Study Abroad Program
- (U) Faculty Advisor, Women's Field Hockey Team (NCAA Division I)
- (O) Volunteer Coach, Ocean Sciences Bowl Team, Woodrow Wilson HS (DC)
- (O) Host & Organizer, Distinguished Speaker Series (Open to the Public): Dr. Jane Lubchenco, NOAA Administrator, NOAA Climate Science and Services

2008/07

- (D) Member, Undergraduate Committee, Environmental Studies Program
- (D) Director, Environmental Studies Program
- (D) Internship Coordinator
- (D) Webmaster, Environmental Studies Program and Department of Biology
- (D) Member, Faculty Search (Cell Biology), Department of Biology
- (D) Member, Rank & Tenure Committee
- (C) Moderator, CAS Student Research Conference
- (U) Faculty Advisor, Women's Field Hockey Team (NCAA Division I)
- (U) Member, Faculty Search (Environmental Policy), School for International Service
- (U) Mock Interviewer, Greenberg Seminar
- (U) Co-Chair, Joint Committee on Curriculum and Academic Programs, University Senate
- (U) Member, Executive Committee of the Faculty Senate
- (U) Member, Athletic Advisory Committee, Depart of Athletics
- (U) Member, Advisory Committee, AU Study Abroad Program
- (O) Volunteer Coach, Ocean Sciences Bowl Team, Woodrow Wilson HS (Washington DC)

2007/06

- (D) Acting Chair, Department of Biology
- (D) Director, Environmental Studies Program
- (D) Member, Rank & Tenure
- (D) Member, Cell Biology Search Committee, Department of Biology
- (D) Member, ENVS Undergraduate Committee
- (D) Internship Coordinator
- (D) Webmaster, Biology and Environmental Studies
- (D) Member, ENVS PhD Committee
- (D) Member, Faculty Search (Environmental Policy), School for International Service
- (C) Speaker, College Success Foundation Lecturer, School of Education, Teaching & Health
- (U) Co-Chair, Joint Committee on Curriculum and Academic Programs, University Senate
- (U) Member, Curriculum Integration Committee, AU Study Abroad Program
- (U) Member, Ad Hoc Committee on Learning Communities
- (U) Faculty Advisor, Women's Field Hockey Team (NCAA Division I)
- (U) Member, Athletic Advisory Committee, Department of Athletics
- (O) Volunteer Coach, Ocean Sciences Bowl Team, Woodrow Wilson HS (Washington DC)

2006/05

- (D) Director, Environmental Studies Program
- (D) Member, Rank & Tenure Committee, Department of Biology
- (D) Member, ENVS Undergraduate Committee
- (D) Internship Coordinator
- (D) Webmaster, Environmental Studies Program and Department of Biology
- (D) Member, ENVS PhD Committee
- (C) Member, Educational Programing Committee - Research Committee
- (C) Speaker, Graduate Open House
- (U) Member, Faculty Search (Environmental Policy), School for International Service
- (U) Co-Chair, Joint Committee on Curriculum and Academic Programs, University Senate
- (U) Member, Curriculum Integration Committee, AU Study Abroad Program
- (U) Member, Faculty Athletic Advisory Council, Department of Athletics

2005/04

- (D) Director, Environmental Studies Program
- (D) Undergraduate Advisor, Environmental Studies Program
- (D) Webmaster, Environmental Studies Program
- (C) Member, Budget Advisory Committee
- (C) Member, Educational Programing Committee - Research Committee
- (C) Member, Ad Hoc Academic Integrity Review Panel
- (U) Faculty Advisor, AU Lady Eagles Ice Hockey Club Team
- (U) Building Representative, Emergency Evacuation Plan
- (U) Member, Athletic Advisory Committee
- (O) Host & Organizer, Distinguished Speaker Series (Open to the Public): Dr. John H. Marburger III, Director, Office of Science and Technology Policy (event covered by C-SPAN)

2004/03

- (D) Director, Environmental Studies Program
- (D) Webmaster, Environmental Studies Program
- (C) Member, Budget Advisory Committee
- (C) Member, Technology Committee
- (C) Advisor, Premedical Program
- (C) Member, Ad Hoc Academic Integrity Review Panel
- (C) Chair, AU DC-Sharjah Science Exchange Program
- (C) Co-Organizer, Graduate Studies Open House
- (C) Moderator, Student Research Conference
- (U) Faculty Sponsor, Chesapeake Bioneers Conference
- (U) Member, Fulbright Selection Committee
- (U) Faculty Advisor, AU Men's Golf Team
- (U) Member, Ad Hoc Committee on Center for Environmental Films

2003/02

- (D) Webmaster, Environmental Studies Program
- (C) Advisor, Premedical Program
- (C) Member, Budget Advisory Committee
- (C) Member, Technology Committee
- (C) Member, Ad Hoc Academic Integrity Review Panel

(C) Member, Dissertation Fellowship Committee

2002/01

(D) Chair, Undergraduate Program, Department of Biology

(C) Member, Technology Committee

(C) Member, Budget Advisory Committee

(C) Moderator, Student Research Conference

2001/00

(D) Member, Faculty Search (Microbiology), Department of Biology

(D) Member, Rank & Tenure Committee

(D) Member, General Education Course Review (BIO-240G)

(D) Chair, Undergraduate Program, Biology Department

(D) Member, Faculty Search (Molecular Genetics), Department of Biology

(D) Director, Environmental Studies Program

(C) Member, Technology Committee

(C) Member, Ad Hoc Academic Integrity Review Panel