CURRICUM VITAE

Jose Victor Lopez, Ph.D.
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https://hcas.nova.edu/research/faculty-labs/microbiology-genetics/index.html

PERSONAL

Citizenship United States of America

PRIMARY RESEARCH INTERESTS

Main interests lie in molecular evolution, biodiversity, microbial symbiosis and genomics. Characterization of gene sequences from rare and relatively overlooked marine invertebrates and microorganisms have enabled the PI to contribute to increasingly valuable genetic biodiversity research and data during the current period of accelerated worldwide habitat destruction. With a background in molecular evolutionary biology and macromolecular sequence analysis, the PI has been conducting research within this framework and through multi-disciplinary laboratory collaborations.

EDUCATION

1. **Ph.D** (Environmental Biology and Public Policy; Molecular Evolution). *George Mason University, Fairfax, Virginia (GMU)*. September, 1990 - May, 1995. Dissertation title: "Molecular evolution of *Numt*, a recent transposition and tandem amplification of mitochondrial DNA into the nuclear genome of the domestic cat (*Felis catus*)."
2. **M.Sc** (Biological Sciences). *The Florida State University, Tallahassee, Florida*. January, 1985 - April, 1988. Gene regulation studies directed by Dr. J. Herbert Taylor. Thesis title: DNAase I hypersensitive sites and their correlation to differential expression of an exogenous thymidine kinase gene.
3. **B.S** (Applied Biology). *Georgia Institute of Technology, Atlanta, Georgia*. September, 1980 - December, 1984. Dean's list.

APPOINTMENTS

Professor; MS Biology program academic co-coordinator *Halmos College of Natural Sciences and Oceanography, Nova Southeastern University, Dania Beach, FL.* July 2013 – present.

President, Global Invertebrate Genomics Alliance (non-profit) *Nova Southeastern University, November 2019 - 2021*

Senior Fellow *Theodosius Dobzhansky Center for Genome BioInformatics, St Petersburg State University, Russia.* June 2015 – 2017. **http://dobzhanskycenter.bio.spbu.ru/en/.**

Associate Professor; MS Biology program academic coordinator; *Oceanographic Center / Farquhar College of Arts and Sciences, Nova Southeastern University, Dania Beach, FL.* July 2007 – present. Marine microbiology, molecular evolution, genomics.

Assistant Scientist. *Division of Biomedical Research, Harbor Branch Oceanographic Institution, Ft. Pierce, FL.* July 1998 – June 2007. Molecular genetics and evolution of secondary metabolite biosynthesis. Marine invertebrate systematics.

Adjunct Faculty. *Indian River Community College, Ft. Pierce, FL.* Sept 1997 - 2007. Teach undergraduate laboratories and classes.

Adjunct Faculty. *Department of Biology, Florida Institute of Technology, Melbourne FL.* September 1999 - present. To advise FIT graduate student research performed in conjunction with HBOI.

Adjunct Faculty. *Dept. of Chemistry, Biochemistry and Biology, Florida Atlantic University, FL.* Sept 2000. Joint HBOI -FAU Chemical Biology and "Semester at Sea" programs.

Postdoctoral Fellow. *Division of Biomedical Research, Harbor Branch Oceanographic Institute, Ft. Pierce, FL*. January, 1997 - June, 1998. Molecular genetics of biosynthetic pathways and developing molecular markers for various tropical sponge, ascidian and microbial taxa with Dr. Shirley Pomponi.

Postdoctoral Fellow. *Naos Marine Laboratory, Smithsonian Tropical Research Institute, Panama.* July, 1995 - December 1996. Scholarly studies program. Developing molecular markers for differentiating sibling species of *Montastraea annularis* corals (Cnidaria: Scleractinia) with Dr. Nancy Knowlton.

Research Technician. *Laboratory of Biology, Division of Cancer Etiology, National Cancer Institute, Bethesda, MD.* May 1988 - August 1989. Performed site-specific mutagenesis on HPV genes in an effort to determine their role in tumorigenic transformation.

Pre-doctoral Fellow. 1*) Laboratory of Viral Carcinogenesis, Division of Cancer Etiology, National Cancer Institute, Frederick, MD; 2) PRI-Dyn/Corp, NCI-FCRDC.* January, 1990 - May, 1995. Doctoral dissertation on cat mitochondrial DNA evolution under Dr. Stephen J. O'Brien.

AWARDS AND GRANTS

1. Student Research Training Fellowship (SRTP), National Cancer Institute (NCI)(1/90 - 6/90).
2. Smithsonian Short-term Travel Award (7/95) - $2,000.00
3. Harbor Branch Institute Postdoctoral Fellowship (1997-1998) - $25,000/annum
4. Florida SeaGrant Research Proposal (Co-PI with PI S. Pomponi): "Marine Invertebrate Cell Culture For In Vitro Production of Compounds with Therapeutic Potential" - $149,971 (2/1998- 1/ 2000)
5. National Science Foundation, MCB9974984, (J.Lopez, PI): "Molecular Evolution and Adaptation of Microbial Polyketide Biosynthetic Sequences" - $249,898 (9/1999 - 12/2004).
6. Durfee Foundation, Earthwatch Student Challenge Award (Lopez, Co-PI with L Brown, Danyelle Townsend) - To support operation s of class, "Molecular Studies of Marine Biodiversity on the Indian River Lagoon and Andros Island, Bahamas" - $14,000 (6/2001).
7. American Cancer Society Research Grant (co- PI with PI R Kerr) - " Biosynthesis and Development of Eleutherobin, a Marine Anticancer Agent" - $180,922.00. (7/2001 - 6/2005)
8. National Science Foundation , DEB0103668 (Lopez, PI) – "Taxonomic Inventory of Marine invertebrate-associated microbes from the HBOI culture collection" - $208,000 (8/01 - 11/2005).
9. Florida SeaGrant - " Development of a Chemoenzymatic Production Method of Elisabethadione – a Potent Marine Anti-inflammatory Agent." (Lopez, Co-PI with R Kerr, FAU, PI), - $62,110.00 subcontract to HBOI.
10. National Science Foundation, MCB 0119011 - "ME: Cloning of Elisabethatriene Cyclase for Use in the Synthesis of Diterpenes." $123,000.00 (Lopez, Co-PI with PI R Kerr, FAU), (7/01 - 6/05).
11. American Genetics Association Special Event Award - to provide scholarship funding for HBOI summer course - "Molecular Studies of Marine Biodiversity" - $2300.00
12. National Science Foundation, REU supplement for 2 undergraduate students to perform research under DEB0103668, $8,275.00.
13. Florida SeaGrant SI-06-33 – "Profiling the marine sponge (*Discodermia*) transcriptome enriched for secondary metabolite-coding messages" (Lopez, PI; R. Feldman, Co-PI) - $149,744.00 (2/2006 – 1/2008).
14. Nova Southeastern University 2007-2008 President's Research Development Grant - $10,000
15. National Science Foundation, DEB 0829791, Assembling the Tree of Life - "Collaborative Research: AToL: PorToL- The Porifera Tree of Life Project" (Thacker PI; Lopez, Co-PI) - total $451,912 (10/2008 – 9/2013); Research Experience for Undergraduates (REU) supplement $3600. (331539)
16. Nova Southeastern University 2010-2011Chancellor's Faculty Research and Development Grant (CFRDG) - High efficiency (454) DNA sequencing of a sponge meta-transcriptome for symbiosis; Co-PI Emily Schmidt
17. Nova Southeastern University 2010-2011 Chancellor's Faculty Research and Development Grant (CFRDG) - Reproduction and spread *of Cliona delitrix* excavating sponge on coral reefs; Co-PIs Andia Chaves Fonnegra, Jay Fleischer
18. Florida Institute of Oceanography/Univ of S. Florida - Baseline and Oil Spill Impacted Marine Sponge Microbial Communities and Gene Expression Analysis with Metagenomics. PI; Co-PI's Rebecca Thurber, Peter McCarthy. $219,005. (8/2010 – 7/2012).

19. Nova Southeastern University 2010-2011, Chancellor's Faculty Research and Development Grant (CFRDG) - Molecular monitoring of microbial symbiont changes in a marine sponge over time. PI Lopez, $10,000. (6/2011 – 5/2012).
20. Nova Southeastern University 2010-2011, Chancellor's Faculty Research and Development Grant (CFRDG) Co PI Dawn Formica
21. Marine Academy of Sciences, $2000
22. Florida Fish and Wildlife Commission, Florida State Wildlife Grant (FWC SWG) "Population structure of *Orbicella (formerly Montastraea) annularis* and *M. franksi* and their associated zooxanthellae endosymbionts throughout the Florida Reef Tract " July 1, 2013 – June 30, 2016. $113,119 (PI- N Fogarty; Co-PI. JV Lopez).
23. Department of the Army, Proposal No. 64745-RT-REP: Shaping the Future: Integrating Cutting Edge Equipment to Enhance Research, Education and Outreach at Nova Southeastern University. $202,012 (PI Robert Smith; Co-PI, JV Lopez).
24. Ocean Research and Conservation Alliance – "Microbial community analysis of IRL sediments" Donation to carry out community analysis. $4025.
25. Gulf of Mexico Research Initiative, Consortium IV – Deep Pelagic Nekton Dynamics of the Gulf of Mexico (DeepEND); www.deependconsortium.org, (PI Tracey Sutton, Co-PI JV Lopez) 01/01/15 – 12/31/20. $396,998).
26. LifeSource Biomedical LLC (FDA), "Environmental Sampling, Microbial and Genomic Analysis of South Florida Tomato Agricultural Areas." Contract to PI JV Lopez, 5/8/2015 to 5/7/2017, $147,118.00.
27. National Institute of Justice, Research and Development in Forensic Science award 2016 -18 "Using microbial signatures left behind at crime scenes to identify individual people and lifestyle" (PI Jack Gilbert; Co-PI Lopez, $168,316) . 1/1/16 – 12/31/17.
28. National Science Foundation - Collaborative Research: Investigations into Microbially Mediated Ecological Diversification in Sponges (Co-PI with PI Cole Easson, $237, 692) 9/1/18 – 8/31/21.
29. American Genetics Association - Third Global Invertebrate Genomics Alliance (GIGA) conference and workshop (GIGAIII), October 19-22, 2018. $12,900.
30. NOAA Phase II - $14565
31. NSU President's Distinguished Professor Award – 2018-2019
32. Halmos College of Natural Sciences Oceanography Professor of the year 2018
33. Coral-Tox: A species-sensitivity assessment of petroleum hydrocarbon toxicity to scleractinian corals (Co-PI with Dorothy Renegar, $84,994) 09/01/17 - 08/30/19
34. Phi Kappa Phi - Faculty Inductee 2019
35. Army Corp of Engineers W912HZ-19-2-0014 "Understanding Harmful Algal Blooms-Temporal and Spatial Characterization of Microbial Communities from Lake Okeechobee" (PI Lopez; $1,196,132) 7/16/19 – 9/15/22.
36. Editor's Choice award for FEMS Microbiology Ecology article – "Inevitable Future: Space Colonization Beyond Earth with Microbes First. FEMS-Microbiology Ecology. 95 (10) : fiz127, by LL Freed et al."
37. FL Dept of Environmental Protection - Analysis of Sediments from Port Everglades Inlet (PEI) for Microbiome Characterization (PI Lopez; $22635) 4/1/2020 – 9/15/2020.
38. Gordon and Betty Moore Foundation/Wellcome Sanger Institute – Aquatic Symbiosis Genome sequencing award (for 100 symbiotic species whole sequencing) – PI, in kind value of ~$700,000; $12500 for shipping
39. FL Dept of Environmental Protection - Analysis of Sediments from Port Everglades Inlet (PEI) for Microbiome Characterization, Phase II (PI Lopez; $22635) 3/1/2020 – 6/15/2020.
40. NSU President's Faculty Research Development Grant (PFRDG) The microbiome characterization and comparison of loggerhead (*Caretta caretta*) and green (*Chelonia mydas*) sea turtle eggs in Broward County, Florida. July 2021.
41. Wellcome Sanger Institute, Aquatic Symbiosis Genome Project, $12,500.
42. Florida Dept of Environmental Protection, subaward, PI Mark Butler, The Role of Sponge Filtration in Transforming Coastal Water Quality in the Florida Keys ($70,000 Sept 2022 – July 2023, P)

TEACHING EXPERIENCE

1. *Florida State University* - Introductory Biology laboratory for undergraduates (June -August, 1987).
2. *George Mason University*
   - Genetics laboratory for undergraduates (January - May, 1993).
   - Teaching assistant for undergraduate Tropical Ecosystems on Andros Island, Bahamas, (June, 1994);
3. *Laboratory of Genomic Diversity/Smithsonian Institution Conservation Research Center*
   - Conservation Genetics Molecular Workshop (August 1996). Special topic: "Cautionary tales of nuclear mtDNA in phylogenetic analyses"; (August 16-27, 2004) Guest lecturer on marine invertebrate genetics and phylogeography.
4. *Harbor Branch Oceanographic Institution*
   - Individual mentoring program for HBOI summer internship for undergraduate students (1997 & 1998, 2000)
   - Harborside program (1997-2004) - Molecular biology lectures to local high school students from Lincoln Park Academy (LPA), Ft. Pierce, FL
5. *Harbor Branch Oceanographic Institution/New Century College Center for Field Studies* (Annual summer course-1999 - present). Developed and taught college field course, "Molecular Studies of Marine Biological Diversity"
6. *Indian River Community College*. Freshman Biology (1010) Lab for Majors.
7. *Harbor Branch Oceanographic Institution /Florida Atlantic University- "Semester-by-the-Sea"Program* (Ongoing). Taught lecture and labs for a) Marine Biodiversity and b) Marine Microbiology and Molecular Biology undergraduate courses.
8. *EarthWatch Student Challenge Award Program (SCAP)* - 2001 & 2002. Taught select high school classes on field biology classes to Andros Island Bahamas.
9. *Marine Mammalogy, Florida Atlantic University,* Summer 2002- present Marine mammal genetics
10. *Smithsonian Conservation Research Center/NIH Laboratory of Genomic Diversity workshop*, "Recent Advances in Conservation Genetics", in Front Royal, Virginia (August 2004).
11. *ASM International Mentor,* 2005.
12. *Indian River Community College/Palm Beach Workforce Alliance/* Biotechnology Laboratory I and II (Fall, Spring 2005 - 2007).
13. *Nova Southeastern University, Farquhar College of Arts and Sciences and Halmos Colleae of Natural Sciences and Oceanography* 2007-present. BIOL 3400 Microbiology; BIOL3800 Evolution; *Oceanographic Center* OCMB 8020/BCOR 5585 Marine Genomic/Genomics; OCMB 8030 Advanced Molecular Genetics Laboratory. BCOR 5500 - Principles of Molecular Evolution;

MENTORING: GRADUATE STUDENTS (42 total)

	Masters	**Doctorate**
Total Number of NSU graduate degrees conferred upon students Under JV Lopez's supervision	**__42__**	**___1__**

1. Edward J. Enright, Master of Science, Florida Institute of Technology 1999 - 2000. Primary laboratory supervisor. Graduated.
2. Dora Maria Pilar Maul, Ph.D., Florida Institute of Technology, 1999 - 2002. Doctoral committee member and research supervisor. Graduated.
3. Karen Sandell Sfanos, 2004, MS/NSF Research Undergraduate Experience Intern, Florida Institute of Technology. Graduated.
4. Malania Wilson, 2002 , MS, Florida Institute of Technology. Committee member. Graduated.
5. Jennifer Boehnlein, Florida Atlantic University, 2001 - 2006 Doctoral committee member. Graduated
6. Amber Coleman, Florida Atlantic University, 2001 Doctoral committee member. Graduated.
7. Llanie Ranzer, Florida Atlantic University, 2001 - 2006, Doctoral committee member and research supervisor.
8. Patricia Waikel, Nova Southeastern University 2008 – 2010. Master of Science Major Advisor, Graduated "Analysis of a partial expressed sequence tag (est) library and differential expression of genes in biochemical morphotypes of the marine sponge *Discodermia dissoluta"*
9. Karita Negandhi, Nova Southeastern University 2008 – 2009. Master of Science Major Advisor. Graduated

"Microbial Communities with Emphasis on Coral Disease-Associated Bacteria within Florida Reef Sponges Microbial Communities with Emphasis on Coral Disease-Associated Bacteria within Florida Reef Sponges". MS conferred 2009.

10. Crystal Conway, Nova Southeastern University 2008 –2010 Master of Science Major Advisor, Graduated "Study Of Secondary Metabolite Gene Expression In Marine Microbial Co-Cultures Using Quantitative Real-Time Pcr". MS conferred 2010.
11. Andia Chavres-Fonnegra, Nova Southeastern University 2009 – present. Doctoral candidate, Major Advisor Increase of excavating sponges on Caribbean coral reefs: reproduction, dispersal and coral deterioration.
12. Denise Hemphill, Nova Southeastern University 2008 – present. Master of Science (capstone) Major Advisor. Hydrothermal Geology at Meridiani Planum, Mars, and the Possibility of a Marker for Microbial Life in the Iron Oxyhydroxide, Schwertmannite . MS conferred 2009.
13. Dawn Formica, Nova Southeastern University 2010 – 2014. Master of Science (capstone) Major Advisor Seasonal fluctuations of microbial population structure in the subtropical marine sponge *Amphimedon compressa*
14. Jignasa Patel, Nova Southeastern University 2009 – 2012. Master of Science Major Advisor Seasonal variation in meta-transcriptome profiles of the marine sponge, *Axinella corrugata* and its microbial consortia: A pyrosequencing approach. MS conferred 7/12.
15. Emily Smith, Nova Southeastern University 2010 – 2013. Master of Science Major Advisor Developing marine sponges as biological indicators for oil and chemical dispersant impacts MS conferred 2013.
16. Tandace Burkhart, Nova Southeastern University 2010 – 2012. Master of Science Major Advisor Mining genetic databases for new gene discovery, MS conferred 7/12.
17. Diana Aranda, Nova Southeastern University 2010 – 2013. Spatial and temporal variations of enterococci levels on sub-tropical recreational beaches: a historical analysis. MS conferred 4/13
18. Sandhya Kumar, Nova Southeastern University, MS conferred 5/2012
19. Alexandra Campbell, Sept 2011 – 2014. Genetic sequence characterization of marine bacterial diversity from South Florida waters over space and time. Nova Southeastern University, Master of Science (capstone) Major Advisor
20. Abelardo Vernaza, June 2012 -2015 Eribulin Mesylate for the Treatment of Metastatic Breast Cancer, Nova Southeastern University, Master of Science (capstone) Major Advisor MS conferred 5/15.
21. Shira Jaye Anteby Investigation of Regulatory and Hypothetical Genes in Marine Microbes *Roseobacter denitrificans* Och114 and *Oceanobacillus iheyensis* HTE831: A Site-Directed Mutagenesis, Nova Southeastern University, Master of Science (capstone) Major Advisor June 2012 – 2015. MS conferred 5/15.
22. Rebecca Mulherron, 2012 – 2014. Microbial Community Assemblages found with Sponge Orange Band Disease in *Xestospongia muta* (Large Barrel Sponge).Nova Southeastern University, Master of Science Major Advisor
23. Renee Potens, 2012 – 2016. Nova Southeastern University, Master of Science Major Advisor
24. Jonathan Lanzas, 2012 – 2014. The Current State of Next-Generation Sequencing Nova Southeastern University, Master of Science (capstone)
25. Lauren O'Connell 2013 – 2015. Compositional Analysis of the Port Everglades Inlet (Broward County, FL) Microbiome Using Next Generation Sequencing Technology. Nova Southeastern University, Master of Science, Marine Biology Major Advisor
26. Nidhi Vijayah, 2013 – 2015. Analysis of bacterial diversity with response to light and antibiotics in in vitro tissue culture of marine sponge, *Cinachyrella* Nova Southeastern University, Master of Science, Marine Biol,Major Advisor; http://nsuworks.nova.edu/occ_stuetd/393/
27. Kyle Roebuck 2014 – 2018. Estimation of Invertebrate Genome Sizes by Flow Cytometry, Nova Southeastern University, Master of Science, Marine Biol Major Advisor
28. Jorie Skutas 2014 – 2017, Analysis of Salmonella in natural Florida habitats, Nova Southeastern University, Master of Science, Marine Biol Major Advisor. https://nsuworks.nova.edu/occ_stuetd/461/
29. Lindsay Freed. 2015- 2018 Characterization of the bioluminescent symbionts from Ceratioids collected in the Northern Gulf of Mexico. Nova Southeastern University, Master of Science, Marine Biol Major Advisor.
30. Chase Donnelly 2016 – 2018 Microbiota of South Florida Canal and Water Systems: Comparing

Pristine and Anthropomorphic Environments using 16S rRNA sequencing . Nova Southeastern University, Master of Science, Marine Biol Major Advisor. https://nsuworks.nova.edu/occ_stuetd/485/

31. Yasmine Khan 2016 – Present A comparative metagenomic study of the microbiome of an endangered Florida lupine species (*Lupinus aridorum*). Nova Southeastern University, Master of Science, Marine Biol Major Advisor.
32. Rachael Karns 2016 – 2017 Shark Microbiome South Florida Shark Teeth Host Uniquely Diverse and Enriched Potentially Infectious Microbial Communities", Major advisor. https://nsuworks.nova.edu/occ_stuetd/453/
33. Marissa Wickes 2015 – 2018. Analysis of Coral Reefs and Coastal Floodwater to Understand Species Biodiversity and Characterize Microbiomes, Major advisor
34. Ghazal Habib 2013 – 2017 MS (capstone) – 2018 Analysis of Diagnostic, Preventive, and Disease-Modifying Therapeutic Measures of Alzheimer's Disease, Major advisor
35. Yvain Desplat 2018 – 2020 *Cinachyrellla* differential gene expression, Major advisor
36. Denise Swack 2018 – 2021 Erosion control, Major advisor
37. Victoria Pecci 2018 - withdrawn Invertebrate genomics
38. Philip Fortman 2018 – 2020 Biscayne Bay water quality
39. Alexis Berger 2019 – 2021 Pyrosome microbiomes
40. Elizaveta Schmakova 2018 – 2021 *Cinachyrella* mirobial genomes
41. Deepesh Tourani 2018 – 2019 PICRUSt analyses of DEEPEND cruises DP03-05
42. Shelby Cain 2019– 2021 Sulfur metabolism in sponges
43. Colleen McMaken 2020– Microbiomes in Sea Turtle nests
44. John Pettingill 2020 – *Elysia* gene expression
45. Joshua Farmer 2021 - FIU Doctoral Committee
46. Brianna Clark 2018 – *Axinella corrugata*
47. Paisley Samuels 2022 - Heterotrophic bacteria of Lake Okeechobee
48. Rachel Bacaner 2022 – Coral cell culture
49. Faith Borak 2023 – Invertebrate symbioses

Committee member on the following NSU graduate committees

Ewelina Rubin; Christine Testermann Andrea Bernard, Emily McGrath, Ana Gonzalez, Caidra Rice, Charles Walton, Kelli Pelikan, Alois Romanowski, Rachel Zimmerman,

Undergraduate Students Mentored- HBOI, Farquhar College of Arts and Sciences (2007- 2017):

1. Brandi Schoch
2. Holly Hoier
3. Jonathan Lopez
4. Samia Quadri
5. Justin Piancentino
6. Shilpa Kailas
7. Mishaal Rehman
8. Vanessa Pierre
9. Stephanie Bromante
10. Jillian Gormley
11. Crystal Romero
12. Sebastian Jofre
13. Renee Potens
14. Case Warshall
15. Estefania Niewialkouski

16. Jesse Secord
17. Timothy Brugman
18. Bryce Parrish
19. Rebecca Quinn
20. Elena Grosu
21. Celeste Banfill
22. Anna Volter
23. Colleen McMaken
24. Kristin Olenchak
25. Christian Rodriquez
26. Sara Hassan
27. Natalie Sondhi
28. Amir Samullah
29. Ethan Grover (High School)

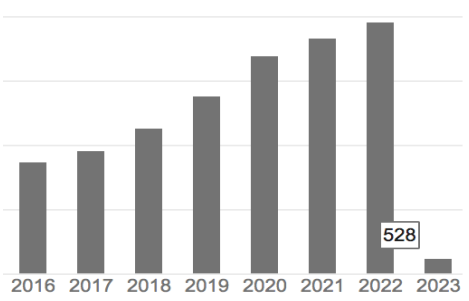
HONORS, ACTIVE SOCIETIES, and SYNERGISTIC ACTIVITIES

1993	Molecular Evolution Workshop, Marine Biological Laboratory, Woods Hole
1995-2002	Society for Molecular Biology and Evolution
1998-present	American Genetics Association
2001-present	American Society for Microbiology
2001	American Institute of Biological Sciences Diversity Scholar
2001-present	Sigma Xi
2001- 2002	International Biodiversity Observation Year (IBOY) participant
2002, 04, 06	National Ocean Science Bowl 2002 competition (for high school) - judge
2003-present	International Society of Symbioses
2003 – 2005	Morris Animal Foundation, Wildlife Scientific Advisory Board Member
2003	Best article in Marine Biotechnology Journal (co-author with Snyder et al, Mar Biotech 5:1-12)
(2006-present	Florida Academy of Sciences member
2006	BioFlorida program in BioScience Career and Education Experience (to high schools)
2006	ICoMM, the International Census of Marine Microbes [www.icomm.mbl.edu] working group
2008-present	Associate Editor, Journal of Heredity
2008– 2009	International Society for Reef Studies
2009	Nova Southeastern University Nominee- "Professor of the Year"
2009	*Acropora* Coral Conservation and Restoration workshop participant and co-author, Nov
2009-present	National Coral Reef Institute scholar
2010- present	Florida Branch American Society for Microbiology
2011	ATOL Project team workshop, NESCENT
2011	Comparative Genomics workshop, University of Florida
2011	Associate Editor, Scientific World Journal , http://www.tswj.com/
2012	Society for Systematic Biology
2012	Who's Who in Sciences Higher Education (WWSHE) http://sciences.academickeys.com/whoswho.php
2012	Society for Integrative and Comparative Biology (SICB – 501693)
2012-present	Coordinator of OC Faculty seminar series
2013	Organized the consortium – **Global Invertebrate Genomics Alliance** (GIGA) – www.nova.edu/ocean/giga and htt://giga.nova.edu; steering committee
2013	(Feb 2013) participated in NSF's Opportunities for Enhancing Diversity in the Geosciences (OEDG) program, Indian River State College
2013	Topic Editor for the *Encyclopedia of Earth* (http://www.eoearth.org/)
2013	Invited member to the Southeast Florida Coral Reef Initiative (SEFCRI) Technical Advisory Committee (TAC) - http://www.southeastfloridareefs.net/about-us/sefcri-partners/. Our Florida Reefs
2013	Invited to be Associate editor for Frontiers in Microbial Symbioses

2014 Society of Molecular Biology and Evolution (SMBE); Organizer for annual meeting symposium on GIGA: "Establishing a Global Invertebrate Genomics Alliance" for comparative genomics
2014 COSEE Florida Research Experience for Pre-Science Teachers Program mentor
2014 Contributor to NSU OC MentorShark Dialog Newsletter, Issue 3, April 201
2014 Coordinator for Bioinformatics for Amplicon Analysis, at the 2nd International Symposium on the Microbiology of Sponges, Oct 29th 2014
2014 Contributor to O*NET Data collection program for "genetics" – www.onetcenter.org
2014 Co-coordinator of the NSU OC faculty seminar series
2015 Guest editor, J. of Marine Science and Engineering, "Marine Microbial Communities"

Figure from http://scholar.google.com/, as of January 2023

	All	Since 2018
Citations	4839	2202
h-index	35	23
i10-index	60	44



2015 External Expert Advisory Board of the EU H2020 Innovative Training Network proposal "Comparative genomics and transcriptomics of non-model invertebrates (IGNITE)
2016 Co-organized first HCNSO Ocean Science Jamboree, May 19-20 (http://nsuworks.nova.edu/cnso_osj/)
2016 Faculty for ConGen2016, Lake Balaton Hungary, May 30 – June 13, 2016
2017 Invited Keynote Speaker for first EarthBioGenome Conference, Smithsonian Institution, Feb 2017.
2017 Invited Keynote Speaker – World Sponge Conference, Galway Ireland.
2018 - Association for the Sciences of Limnology and Oceanography (ASLO) Member
2018 – Co-organizer for Third GIGA conference/workshop - https://gigaiii.weebly.com/
2008 – 2017 NSU recognition for external funding
2018 – Halmos College Professor of the Year
2018 - NSU President's Distinguished Professor
2018 – Phi Kappa Phi Inductee
2019 – Grand Marshall, HCNSO Graduate Commencement
2019 – FEMS article chosen as Editor's Choice
2019 - Secretary, NSU Chapter, Sigma Xi
2019 – 2021 President, Global Invertebrate Genomics Alliance (GIGA)
2021 - GIGA VP of Development and Fund Raising
2020 - Deep Sea Biology Society member
2020 - NSU Technical Representative for South Florida and Caribbean Cooperative Ecosystems Studies Unit (SFC CESU)
2020 - Elected to the American Genetics Association Council, Publication review committee – https://www.theaga.org/council.htm
2021 - Completion of Johns Hopkins University/Coursera "Contact Tracing" course
2021 – 2024 Member, Society of Molecular Biology and Evolution
2022 – Board Director for Florida non profit Research Discovery Center (NBV Reef Aquarium Inc)

PATENTS

Diterpene Cyclase And Methods Of Use

R Kerr, A Kohl, J Lopez
WO Patent 2,003,065,001

AD HOC REVIEWER FOR THE FOLLOWING JOURNALS

Journal of Heredity, International Journal of Microbial Ecology, Biological Bulletin, Microbial Ecology, Symbiosis, Hydrobiologia, J. of Phycology, PlosOne, J. Applied Microbiology, Frontiers in Microbial Symbiosis, Nature Communications, FEMS, Gene, Frontiers in Microbiology, FEMS, Scientific Reports,

REPRESENTATIVE RECENT CONFERENCES ATTENDED

- Keynote Speaker at the Symposium on Caribbean Flora and Fauna 2002, University of Puerto Rico, Humacao. April 26, 2002
- 4th International Symbiosis Society Congress, Saint Mary's University, Halifax, Nova Scotia, Canada. 2003. Oral presentation: *"Molecular Systematic Survey of Sponge-derived Marine Microbes"*
- Microbial Genomes, Medicine and the Environment – Venter Institute Symposium October 2005; Poster presentation: "Five star microbial hotels: A molecular taxonomic survey of marine invertebrate- associated microbial communities."
- 7th International Sponge Symposium, May 7 –13, 2006, Buzios Brazil; oral presentation: Molecular Census and Comparison of Cultured and Uncultured Eubacterial Symbiont Diversity from an Ancient Metazoan Host, Phylum Porifera.
- Abstract 08-GM-A-5155-ASM At the 108th General Meeting of the American Society of Microbiology, June 1 – 5, 2008, Boston Mass; research poster: "Comparison of Bacterial Diversity within the Coral Reef Sponge, *Axinella corrugata*, the Encrusting Coral *Erythropodium Caribaeorum* and Adjacent Environmental Samples"
- Invited Speaker, "Totally Absorbing: Marine Sponges as a Developing Model Organism for Genetics, Evolution and Microbiology." Genetic and Biodiversity and Connectivity Panelist. Enterprise Development corporation conference May 26, 2010.
- Oral Presentation, "The Vast Potential of Transcriptomic and Meta-transcriptomic Approaches for Advancing Porifera Research " 8th World Sponge Conference, Girona, Spain, Sept 20-24, 2010.
- Oral Presentation, 2nd International Symposium on Sponge Microbiology Sunday 26th October to Tuesday 28th October 2014; http://imet.usmd.edu/2ndISSM.
- Poster presentation, Diana I. Aranda, **Jose V Lopez,** Helena M Solo-Gabriele Jay M. Fleisher. "Spatial and temporal variations of enterococci levels on sub-tropical recreational beaches: a historical analysis" Gordon Research Conference on Oceans & Human Health, University of New England, Biddeford, ME
- Organized symposium on Global Invertebrate Genome Alliance at the Society for Molecular Biology and Evolution. San Juan Puerto Rico, June 2014.
- 2015 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Houston, TX. Feb 2015
- 2016 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Tampa FL. Feb 2016
- International Coral Reef Symposium, Honolulu HI, June 2016
- Poster Presentation - Mobile genetic elements in sponge mitochondria: vertical transmission, independent colonization, and consequences for systematics. Astrid Schuster, Leontine E. Becking, Jose V. Lopez, Shirley A. Pomponi, Michelle Kelly, Dennis V. Lavrov, Gert Wörheide, Dirk Erpenbeck, Paco Cárdenas; GfBS Munich. (http://www.en.palaeontologie.geowissenschaften.uni-muenchen.de/gfbs2016/index.html.)
- Poster presentation, "Microbial Communities Associated with Sponge Orange Band Disease in the Giant Barrel Sponge, *Xestospongia muta* "13th International Coral Reef Symposium, Honolulu HI, June 19-24, 2016.
- Invited Plenary Speaker at the 10th World Sponge Conference "After the rRNA Taxonomy Phase: Addressing the Functions (Raison d'être) of Symbiotic Communities within Marine Invertebrates", Galway, Ireland. June 2017.
- Invited Plenary Speaker for the Inaugural **Global Biodiversity Genomics Conference** held in Washington, D.C. February 21-23, 2017 at the Smithsonian Institution's National Museum of Natural History (http://biogenomics2017.org).
- Invited Keynote Speaker, 10th World Sponge Conference, Galway Ireland June 25-30, 2017.
- Invited Keynote Speaker – Mensa Annual Meeting, Hollywood FL, July 2017
- Oral presentation at Deep Sea Biology Symposium in Monterey CA, Sept 9-14, 2018 and presented the following 2 papers: oral presentation - "Environmental drivers of bacterioplankton community structure in the northern Gulf of Mexico" by Easson and Lopez, describing Year 1 GOM microbiome structure for the journal; Poster "Microbiomes and Bacterial Symbionts of Deep Sea Anglerfish in the Gulf of Mexico" by Freed, Easson, Fenolio, Sutton, and Lopez.
- 2019 GOMOSES conference in New Orleans, Feb 2019, and presented the poster: "Acoustic and Environmental DNA Analysis Provide Higher Resolution of Diel Vertical Migration in the

Northern Gulf of Mexico" with co-authors. C. Easson, C. Gorbea, A. Lobato, K. Boswell, R. Sanchez-Arias, P. Maul.

- Presentation at Phycology Society of America 2019 "Cyanobacteria Ecological Strategies And Bloom Dynamics: The Lake Okeechobee System" Main presenter - Rosen, B. H., U.S. Geological Survey, Florida, USA, brosen@usgs.gov; Lopez, J. V., Nova Southeastern University, Florida, USA, joslo@nova.edu; Loftin, K. A., U.S. Geological Survey, Kansas, US.
- Presentation to IGNITE summer school, "Updates From the Global Invertebrate Genome Alliance (GIGA) And Earth Biogenome Project (EBP) For Comparative Genomics., Zagreb Croatia. Sept 2019.
- International Coral Reef Symposium 2020. High Resolution Species Sensitivity Assessment of Petroleum Hydrocarbons in Six Species of Atlantic Scleractinian Corals. Renegar, A., Turner, N. Bickham, D. Lopez, JV. Desplat, Y. Schuler, E.
- Deep Sea Biology Society meeting, August 2020
- Co-Organizer, panel member of the international online Biodiversity Genomics 2020 Conference (Oct 5-9 2020).https://www.sanger.ac.uk/science/biodiversity-genomics-2020/
- Biodiversity Genomics 2021 Conference
- Biodiversity Genomics 2022 Conference; Panel member for session "Coordination challenges across time and space for completion of EBP Phase I, Oct 7, 2022
- World sponge conference, Oct 10-14, 2022, Leiden, Netherlands Remote presentation and by proxy.

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1. Dipaolo, J.A., Woodworth, C.A., Popescu, N.C., Koval, D.L., **Lopez, J.V.,** Doniger, J. (1990). HSV-2-induced tumorigenicity in HPV16-immortalized human genital keratinocytes. Virology 177:777-779.
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