William Joseph Jones

Curriculum Vitae- January 31, 2017

Office Address

University of South Carolina

Department of Environmental Health Sciences

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Professional Experience

2016- Undergraduate Course Director, ENHS, USC

2015- ENHS representative, ASPH Undergraduate Advisory Committee

2015- Undergraduate Committee, Environment and Sustainability Program, USC

2014- Faculty Principal, Green Quad Learning Center, USC

2013-2014 Director, Genomic Services, Selah Genomics (formerly EnGenCore)

2013- Associate Faculty, Environment and Sustainability Program, USC

2011-Research Assistant Professor, Department of Environmental Health Sciences, USC

2009- Associate Faculty, Marine Science Program, USC

2007-2013 Director, Environmental Genomics Core (EnGenCore) facility, USC

2010-2012 Lab director for Dr. Stephen Kresovich, USC

2003- 2007 Research Associate, Monterey Bay Aquarium Research Institute

2002 Postdoctoral Researcher, Universitat Konstanz, Germany.

1997-2001 Teaching Assistant, Biology Department, UCSC

1997 Research Assistant, Marine Science Program, USC

1995-1997 Teaching Assistant, Marine Science Program, USC

1995	Visiting Research Scientist, Netherland Institute for Sea Research
1994	Summer Fellow, Howard Hughes Scholar, USC

Education

PDF	Universitat Konstanz (2002)
Ph. D.	University of California at Santa Cruz (2001), Biology
M. Sc.	University of South Carolina (1997), Marine Science
B. Sc.	University of South Carolina (1995, *cum laude*), Marine Science

Honors and Awards

2015-2016	Two Thumbs Up Award, USC, The Office of Student Disability Services
2016	South Carolina Faculty Award for Service Learning, Honoree, Campus Compact
2015	Sustainability Award, ESP Program, USC
2014	John N. Gardner Inspirational Faculty Award
2000	Friends of Long Marine Lab Award, UCSC
1999-2001	Genetic Resource Conservation Program Award, UC Davis
2000	David Gaines Memorial Award, UCSC
1999	Earl and Ethyl Myers Trust Fund Award, UCSC
1999	Raney Award, American Society of Ichthyologists and Herpetologists
1999-2000	Theodore Roosevelt Award, American Museum of Natural History
1996-1997	Lerner Gray Award, American Museum of Natural History

Publications (Total of 35, *h* index=20, January 4, 2016) (10 most cited below for brevity)

1. **Jones, W. J.,** and J. M. Quattro. 1999. Phylogenetic affinities of pygmy sunfishes (*Elassoma*) inferred from mitochondrial DNA sequences. Copeia:470-474.
2. **Jones, W. J**., Y. J. Won, P. A. Y. Maas, P. J. Smith, R. A. Lutz, and R. C. Vrijenhoek. 2006. Evolution of habitat use by deep-sea mussels. Marine Biology 148:841-851.
3. **Jones, W**., and E. Macpherson. 2007. Molecular phylogeny of the East Pacific Rise squat lobsters of the genus *Munidopsis* (Decapoda, Galatheidae) with the description of seven new species. Journal of Crustacean Biology 27:477-501.
4. Macpherson, E., **W. Jones**, and M. Segonzac. 2005. A new squat lobster family of Galatheoidea (Crustacea, Decapoda, Anomura) from the hydrothermal vents

of the Pacific-Antarctic Ridge. . Zoosystema 27:1-15.
5. Thurber, A., **W. Jones**, and K. Schnabel. 2014. Dancing for food in the deep sea: bacterial farming by a new species of Yeti crab. PLoS One 6(11):e26243. doi: 10.1371/journal.pone.0026243
6. Turnbaugh, P., M. Hamady, T. Yatsunenko, B. Cantarel, A. Duncan, R. Ley, M. Sogin, **W. Jones**, B. Roe, J. Affourtit, B. Henrissat, A. Heath, R. Knight, and J. Gordon. 2009. A core gut microbiome in obese and lean twins. Nature 457:480-484.
7. **Jones, W**., C. Preston, R. Marin, III, C. Scholin, and R. Vrijenhoek. 2008. A robotic molecular method for in situ detection of marine invertebrate larvae. Molecular Ecology Resources 8:540-550.
8. Scholin, C., G. Douchette, S. Jensen, B. Roman, P. D, R. Marin, III, C. Preston, **W. Jones**, J. Feldman, C. Everlove, A. Harris, N. Alvarado, Massion, E, J. Birch, Greenfield, D, K. Wheeler, R. C. Vrijenhoek, C. Mikulski, and K. Jones. 2009. Remote detection of marine microbes, small invertebrtaes, harmful algae and biotoxins using the Environmental Sample Processor (ESP). Oceanography 22:158-167.
9. Smith, K., L. Rhodes, J. Adamson, J. Tyrrell, D. Mount, and **W. Jones**. 2011. Sandwich hybridisation assay, targeting the ribosomal RNA internal transcribed spacer region, for rapid on site detection of the Northern Pacific seastar, *Asterias amurensis*. New Zealand Journal Marine Freshwater Research 45: 1, 145-152.
10. Mortensen RA, SA Arnott, **WJ Jones**, DI Greenfield, and D. MacLatchy. 2015. Development of sandwich hybridization assay for the identification and quantification of red drum (*Scianops ocellatus*) eggs: a novel tool for fishery research and management. CJFAS 72:1-11.

Teaching Experience

Undergraduate Teaching (Fall 2015 for brevity, over 900 students 2012-present for over 2500 total credit hours)

ENHS/ ENVR 321 Spring 2015 (39 students): Effectiveness (ASPH 1.19): 4.97

ENHS/ ENVR 321 Summer C 2015 (12 students): Effectiveness (ASPH 1.19): 5.00

ENHS/ ENVR 321 Summer G 2015 (14 students): Effectiveness (ASPH 1.19): 4.83

ENHS/ ENVR 321 Fall TTh 2015 (43 students): Effectiveness (ASPH 1.19): 5.00

ENHS/ ENVR 321 Fall MWF 2015 (49 students): Effectiveness (ASPH 1.19): 5.00

ENVR 499 Fall 2015 (1 student) Nicole Elmiger “Internship at Paradise Acres Farm”

ENVR 501 Fall 2015 (2 students) Tyler Gerhardt “The Implications of Urban Impermeability: A Study on the Significance of Infiltration and Hydrology Pertaining to the Rocky Branch Creek”, Travis Jolly “Geotechnical dam and pond design for the Green Quad pond”

MSCI 399 Summer 2015 (1 student): Jory Fleming “Maintenance of Closed Aquaria Systems”

MSCI 599 (“Aquaponics”) Spring 2015 (15 students): Instructor Evaluation (Part I): 4.95

SCHC 499: 4 students (Saige Allison, Stephanie Hetzer, Josh Huffines, Rebecca Webster)

UNIV 101 Fall 2015 (18 students)

UNIV 290 (Sustainability Meets Employability) (6 students)

Grants

Development and Validation of a Novel Molecular Tool to Rapidly Detect and Quantify Harmful Algal Bloom (HAB) Species Linked with Fish Kills and Public Health (PI: Greenfield and Jones)
Sponsor: SC Sea Grant Consortium/NOAA/DOC
Total Funded: $98,623

Development and Validation of a Novel Molecular Tool to Rapidly Detect and Quantify Harmful Algal Bloom (HAB) Species Linked with Fish Kills and Public Health (PI: Greenfield and Jones)
Sponsor: SC Sea Grant Consortium/NOAA/DOC
Total Funded: $98,623

Development of a new molecular tool to rapidly detect and quantify harmful algal blooms (HABs) caused by cyanobacteria: Enhanced early warning to safeguard environmental and public health
Sponsor: SC Sea Grant Consortium
Total Funded: $141,596

Aquaponics, Teaching Innovation Grants for Integrative Learning
Sponsor: Office of the Provost, USC
Total Funded: $3083.95

GEO-Scholar: Broadening undergraduate participation in the geosciences (PI: Benitez-Nelson, Geidel, Jones, Beasley, and White)
Sponsor: National Science Foundation (NSF)
Total Funded: $593,571