

## Sunny Jiang

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### Education

- Ph.D. Marine Science, University of South Florida
- M.S. Marine Science, University of South Florida
- B.S. Biochemistry, Nankai University, Tianjin, P.R. China

### Academic Appointments and Affiliations

- Associated Professor, Department of Civil and Environmental Engineering, Environmental Health, Science, and Policy, Ecology and Evolutionary Biology, Community and Environmental Medicine, University of California, Irvine. July 2004-present
- Acting Chair, Department of Environmental Health, Science, and Policy, UC Irvine, April, August 2003; January, April, June, August 2004, March, June, 2005, Oct.-December 2005.
- Graduate Advisor, Department of Environmental Health, Science and Policy, UC Irvine, July 2003 – June 2005
- Associate Professor, honorary appointment, College of Life Sciences, Nankai University, Tianjin, China. June 2001-Present
- Assistant Professor, Department of Environmental Health, Science and Policy, University of California, Irvine. July 1998 – June 2004
- Faculty Member, Center for Virus Research (CVR), UC Irvine, December 2000-present.

### Awards and Honors

- Excellence in Teaching, Division of Undergraduate Education, UC Irvine, 2002
- Chancellor's Award for Excellence in Undergraduate Students Research Mentoring, UC Irvine, 2001
- Environmental Project Award, Environmental Professionals Organization, 2001
- Pacific Rim Universities Fellow, UC Irvine, 2000 (Travel to East Asia)
- Faculty Career Development Award, UC Irvine, 1999-2000
- The Sackett Prize for Innovative Research, University of South Florida, 1998
- Knight Oceanographic Fellow, University of South Florida, 1995 & 1996
- Gulf Oceanographic Charitable Trust Fellow, University of South Florida, 1994
- IBS Graduate Fellow, USF Institute for Biomolecular Science, 1992

### Publications

#### *Journal Articles, peer reviewed*

- j-1. **Jiang, S. C.**, W. Chu and J. He. 2007. [Seasonal Detection of Human Viruses and Coliphage in Newport Bay, California](#). *Applied and Environmental Microbiology*. 73: 6468–6474.
- j-2. Rafique, A., and **S. C. Jiang**. 2007. Gene Sequence Diversity of Human Polyomavirus, JCV in Southern California. *Journal of Water and Health*. *In press*.

- j-3. **Jiang, S. C.**, W. Chu, B. H. Olson, J. He, S. Choi, J. Zhang, J. Y. Le, P. B. Gedalanga. 2007. [Microbial source tracking in a small southern California urban watershed indicates wild animals and growth as the source of fecal bacteria](#). *Applied Microbiology and Biotechnology* 76 (4): 927-934
- j-4. Turbow, D. J. E. E. Kent, **S. C. Jiang**. 2007. [Web-based investigation of water associated illness in marine bathers](#). *Environmental Research*. In press (Available online 1 August 2007).
- j-5. **Jiang, S. C.** 2006. [Human adenoviruses in water: Occurrence and Human Health implications](#). *Environmental Science & Technology*, 40 (23): 7132-7140
- j-6. Sabet, S., W. Chu, **S. C. Jiang**. 2006. [Isolation and Genetic Analysis of Haloalkaliphilic Bacteriophages in a North American Soda Lake](#). *Microbial Ecology*, 51:543-554
- j-7. Surbeck, C. Q., **S. C. Jiang**, J. H. Ahn, S. B. Grant. 2006. [Flow fingerprinting fecal pollution and suspended solids in stormwater runoff from an urban coastal watershed](#). *Environmental Science & Technology*, 40 (14): 4435-4441
- j-8. He, J., and **S. Jiang**. 2005. [Quantification of Enterococci and Human Adenoviruses in Environmental Samples by Real-time PCR](#). *Applied and Environmental Microbiology* 71:2250-2255.
- j-9. **Jiang, S.** Dezfulian, W. Chu. 2005. [Real-Time Quantitative PCR for Enteric Adenovirus Serotype 40 in Environmental Waters](#). *Canadian J. Microbiology*. 51:393-398.
- j-10. Choi, S., **S. C. Jiang**. 2005. [Real-Time PCR Quantification of Human Adenoviruses in Urban Rivers Indicates Strong Seasonal Variability and Low Infectivity](#). *Applied and Environmental Microbiology*. 71: 7426–7433.
- j-11. Brum, J., G. Steward, **S. C. Jiang**, R. Jellison. 2005. [Spatial and Temporal Variability of Prokaryotes, Viruses, and Viral Infections of Prokaryotes in an Alkaline, Hypersaline Lake](#). *Aquatic Microbial Ecology*, 41: 247–260.
- j-12. Ahn, J. H., S. B. Grant, C. Q. Surbeck, P. M. DiGiacomo, N. P. Nexlin, **S. Jiang**. 2005. [Coastal water quality impact of storm water runoff from an urban watershed in southern California](#). *Environmental Science and Technology*. 39:5940-5953
- j-13. **Jiang, S. C.**, W. Chu. 2004. [PCR detection of pathogenic viruses in southern California urban rivers](#). *Journal of Applied Microbiology*. 97: 17-28
- j-14. Turbow, D., T. Lin, **S. Jiang**. 2004. [Impacts of beach closure events on perception of swimming-related health risk in Orange County, California](#). *Marine Pollution Bulletin*. 48: 312-136
- j-15. **Jiang, S.**, W. Chu, W. Fu. 2003. [Prevalence of cholera toxin gene \(ctxA\) among non-01/0139 Vibrio cholerae from Newport Bay, California](#). *Applied and Environmental Microbiology*. 69: 7541-7544
- j-16. Noble, R., S. Allen, A. Blackwood, W. Chu, **S. Jiang**, G. Lovelace, M. Sobsey, J. Stewart, and D. Wait. 2003. Use of viral pathogens and indicators to differentiate between human and non-human fecal contamination in a microbial source tracking comparison study. *J. Water and Health*. 1:195-207
- j-17. Stewart, J. R., R. D. Ellender, J. A. Gooch, **S. Jiang**, S. P. Myoda, S. B. Weisberg. 2003. Recommendations for Microbial Source Tracking: Lessons from a Methods Comparison Study. *J. Water and Health*. 1:225-231
- j-18. **Jiang, S.**, G. Steward, R. Jellison, W. Chu, S. Choi. 2004. Abundance, Distribution and Diversity of Viruses in Alkaline, Hypersaline, Mono Lake, California. *Microbial Ecology*, Featured on the cover of January issue of *Microbial Ecology*. 47: 9-17

- j-19. Turbow, D., N. Osgood, **S. C. Jiang**. 2003. Evaluation of recreational health risk in coastal waters based on enterococcus densities and bathing patterns. *Environmental Health Perspectives*. 111: 598-603
- j-20. **Jiang, S.**, W. Fu, W. Chu, J. Fuhrman. 2002. The vertical distribution and diversity of marine bacteriophage at a station off southern California. *Microbial Ecology*.45:399-410
- j-21. Louis, V., E. Russek-Cohen, N. Choopun, I. N. G. Rivera, B. Gangle, **S. Jiang**, A. Rubin, J. A. Patz, A. Hua and R. R. Colwell. 2003. Predictability of *Vibrio cholerae* in Chesapeake Bay. *Applied Environmental Microbiology*. 69:2773-2785
- j-22. Choi, S. W. Chu, J. Brown, S. Becker, V. Harwood, **S. Jiang**. 2003. Application of enterococci antibiotic resistance patterns for contamination source identification at Huntington Beach, California. *Marine Pollution Bulletin*.46:748-755.
- j-23. Cai, B., Y. Han, B. Liu, Y. Ren, **S. Jiang** 2003. Isolation and characterization of an Atrazin-degrading bacterium from industrial wastewater in China. *Letters of Applied Microbiology*. 36:272-276
- j-24. **Jiang, S. C.**, W. Fu. 2001 Seasonal abundance and distribution of *Vibrio cholerae* in coastal waters quantified by a 16S-23S intergenic spacer probe. *Microbial Ecology*, 42(4): 540-548.
- j-25. **Jiang, S. C.**, R. Nobel, W. Chu. 2001. Human adenoviruses and coliphage in urban runoff-impacted coastal waters of southern California. *Appl. Environ. Microbiol.* 67: 179-184.
- j-26. **Jiang, S. C.** 2001. *Vibrio cholerae* in coastal waters of southern California: abundance, distribution and relationship to environmental conditions. *Hydrobiologia*. 460:157-164
- j-27. Singh, D. V., M. Matte, G. Matte, **S. Jiang**, F. Sabeena, B. N. Shukla, S. C. Sanyal, A. Huq, R. R. Colwell. 2001. Molecular analysis of *Vibrio cholerae* O1, O139, non-O1, and non-O139 strains: clonal relationships between clinical and environmental isolates. *Appl. Environ. Microbiol.* 67:910-921
- j-28. **Jiang, S. C.**, M. Matte, G. Matte, A. Huq and R. Colwell. 2000 Genetic diversity of clinical and environmental isolates of *Vibrio cholerae* determined by amplified fragment length polymorphism (AFLP). *Appl. Environ. Microbiol.* 66: 148-153
- j-29. **Jiang, S. C.**, V. Louis, N. Choopun, A. Huq and R. Colwell. 2000 Genetic diversity of *Vibrio cholerae* in Chesapeake Bay determined by amplified fragment length polymorphism (AFLP). *Appl. Environ. Microbiol.* 66: 140-147.
- j-30. **Jiang, S.C.** and J. H. Paul. 1998 Gene transfer by transduction in the marine environment. *Appl. Environ. Microbiol.*64: 2780-2787
- j-31. **Jiang, S.C.** and J. H. Paul. 1998 Significance of lysogeny in the marine environment: Studies with isolates and an ecosystem model. *Microb. Ecol.*35: 235-243
- j-32. **Jiang, S.C.**, C. A. Kellogg and J.H. Paul. 1998 Characterization of marine temperate phage host systems isolated from Mamala Bay, Hawaii. *Appl. Environ. Microbiol* 64: 535-542
- j-33. Paul, J.H., J.B. Rose, **S.C. Jiang**, X. Zhou, P.K. Cochran, C. Kellogg, J.B. Kang, S. Farrah, and G. Lukasik. 1997. Evidence for groundwater and surface marine water contamination by waste disposal wells in the Florida Keys. *Water Research* 31:1448-1454.
- j-34. Paul, J.H., J.B. Rose, **S.C. Jiang**, P. London, X. Zhou, C. Kellogg. 1997. Coliphage and indigenous phage in Mamala Bay. *Appl. Environ. Microbiol.* 63: 133-138

- j-35. **Jiang, S.C.** and J.H. Paul. 1996. Occurrence of lysogenic bacteria in marine microbial communities as determined by prophage induction. *Mar. Ecol. Prog. Ser.* 142: 27-38.
- j-36. **Jiang, S.C.** and J.H. Paul. 1995. Viral contribution to dissolved DNA in the marine environment: differential centrifugation and kingdom probing. *Appl. Environ. Microbiol.* 61: 317-325
- j-37. Paul, J.H., J.B. Rose, **S.C. Jiang**, C. Kellogg, and E.A. Shinn. 1995. Occurrence of fecal indicator bacteria in surface waters and the subsurface aquifer in Key Largo, Florida. *Appl. Environ. Microbiol.* 61: 2235-2241
- j-38. Kellogg, C.A., J.B. Rose, **S.C. Jiang**, J.M. Thurmond and J.H. Paul. 1995. Genetic diversity of related vibriophages isolated from marine environments around Florida and Hawaii. *Mar. Ecol. Prog. Ser.* 120: 89-98
- j-39. **Jiang, S.C.** and J. H. Paul. 1994. Seasonal and diel abundance of viruses and occurrence of lysogeny/bacteriocinogeny in the marine environment. *Mar. Ecol. Prog. Ser.* 104: 163-172
- j-40. Boehme, J., M.E. Frischer, **S.C. Jiang**, C.A. Kellogg, S. Pichard, J.B. Rose, C. Steinway and J. H. Paul. 1993. Viruses, bacterioplankton, and phytoplankton in the southeastern Gulf of Mexico: distribution and contribution to oceanic DNA pools. *Mar. Ecol. Prog. Ser.* 97:1-10
- j-41. Paul, J. H., J.B. Rose, **S.C. Jiang**, C.A. Kellogg and L. Dickson. 1993. Distribution of viral abundance in the reef environment of Key Largo, Florida. *Appl. Environ. Microbiol.* 59: 718-724
- j-42. **Jiang, S.C.**, J. M. Thurmond, S.L. Pichard and J.H. Paul. 1992. Concentration of microbial populations from aquatic environments by Vortex Flow Filtration. *Mar. Ecol. Prog. Ser.* 80: 101-107
- j-43. Paul, J. H., **S.C. Jiang**, and J.B. Rose. 1991. Concentration of viruses and dissolved DNA from aquatic environments by Vortex Flow Filtration. *Appl. Environ. Microbiol.* 57: 2197-2204

### ***Conference Proceedings***

- c-1. **Jiang, S. C.** 2000. Detection of human adenoviruses in coastal waters of southern California. Proceeding 73<sup>rd</sup> Water Environment Federation Conference and exposition. Anaheim, California U.S.A.
- c-2. **Jiang, S.C.**, W. Strobe, J. Jones-Meehan, P. Dunlap and W. Jones. 2000. Development of a luminescent bacterial biosensor for deep ocean pollution monitoring. Proceeding Fifth International Symposium on Environmental Biotechnology. Kyoto, Japan.
- c-3. Paul, J., P. Cochran, **S.C. Jiang**. 1998. Lysogeny and transduction in the marine environment. Proceeding 8<sup>th</sup> International Symposium on Microbial Ecology. Halifax, Nova Scotia, Canada
- c-4. Paul, J. H., **S.C. Jiang**, and J.B. Rose. 1991. Direct enumeration of viruses in Tampa Bay and surrounding waters. *In: Tampa Basis 2.* Sally F. Treat and Peter A. Clark. (eds) p307-315

### ***Book Chapters***

- b-1. Paul, J. H. and **S.C. Jiang**. 2000. Lysogeny and Transduction. *In: Methods in Microbiology* volume 30: Marine Microbiology. (ed.) John Paul. Academic Press, London.

- b-2. Paul, J. H., C.A. Kellogg, **S.C. Jiang**. 1996. Viruses and DNA in marine environments. *In: Microbial Diversity in Space and Time*. (eds) Rita Colwell, Usio Simidu, Kouichi Ohwada. p119-128. Plenum Press, New York.

### **Technical Reports**

- r-1. World Health Organization. 2007. Sanitary Microbiology of Production and Distribution of Desalinated Drinking-water In: *Desalination for Safe Water Supply: Guidance for the Health and Environmental Aspects Applicable to Desalination*. WHO, Geneva 2007
- r-2. Chu, W., S. Choi, H. Dezfulian, J. He, M. Han and **S. Jiang**. 2005. Molecular alternatives to indicator and pathogen detection: real-time PCR. Final Report. Water Environment Research Foundation. Alexander, VA
- r-3. **Jiang, S.** W. Chu, and J. He. 2005. Fecal Indicator Bacteria and Viruses in Newport Bay, California. Final Report. Santa Ana Regional Water Quality Control Board.
- r-4. **Jiang, S.** 2003. Pollution source identification at j03p02 sub-watershed, orange county, California: human viruses and enterococci antibiotic resistance analysis. Final report. Prepared for: County of Orange, California
- r-5. Grant, S. B., B. F. Sanders, A. Boehm, F. Arega, S. Ensari, R. Mrse, H. Y. Kang, R. Reeves, J. H. Kim, J. Redman, **S. Jiang**, W. Chu, S. Choi, C. Clark, L. Litz, M. Sutula, J. Noblet, M. Sobsey, C. McGee. 2002. Coastal runoff impact study phase II: Sources and dynamics of fecal indicators in the lower Santa Ana River watershed. A draft report prepared for the National Water Research Institute, County of Orange, and the Santa Ana Regional Water Quality Control Board.
- r-6. Grant, S. B., C. Webb, B. F. Sanders, A. Boehm, J. H. Kim, J. A. Redman, A. K. Chu, R. Mrse, **S. Jiang**, N. Gardiner, A. Brown. 2000. Final Report: Hunting Beach water quality investigation phase II: an analysis of ocean, surf zone, watershed, sediment and groundwater data collected from June 1998 through September 2000. Prepared for National Water Research Institute, County of Orange, Cities of Huntington Beach, Fountain Valley, Costa Mesa, Santa Ana, Newport Beach, Orange County Sanitation District.

### **Abstracts/Professional presentations**

- a-1. Jiang, S., W. Chu, K. McLaughlin, S. Grant, N. M. Aguilar-Roca, T. Long and C. McGee. Biochemical and Microarray Typing of *E. coli*: Potential for Microbial Source Tracking? American Society for Microbiology (ASM) General meeting, Toronto, ON, Canada, May 21 - May 25, 2007
- a-2. Chu, W., S. Jiang, K. McLaughlin and S. Grant. Growth or Death: Fate of Fecal Indicator Bacteria in the Aquatic Environment. American Society for Microbiology (ASM) General meeting, Toronto, ON, Canada, May 21 - May 25, 2007
- a-3. Choi, S., S. Jiang. Comparative study of seasonal occurrences of lysogens and viruses in fresh, brackish and marine waters. American Society for Microbiology (ASM) General meeting, Toronto, ON, Canada, May 21 - May 25, 2007
- a-4. Sabet, S., W. Chu, S. Jiang. Isolation and Genetic Analysis of Haloalkaliphilic Bacteriophages in a North American Soda Lake. American Society for Limnology and Oceanography, Honolulu, Hawaii. Feb. 19-20, 2006

- a-5. Sabet, S., W. Chu, S. Jiang. Seasonal Prevalence and Genomic Analysis of Cultured and Uncultured Haloalkaliphilic Bacteriophages in a North American Soda Lake. American Society for Microbiology (ASM) General meeting, Atlanta, Georgia, June 5- 9, 2005
- a-6. Choi, S. S. Jiang. Real-time PCR quantification of human adenoviruses in urban rivers indicates strong seasonal variability and low infectivity. American Society for Limnology and Oceanography, Santiago de Compostela, Spain, June 14, 2005
- a-7. Rafique, A., S. Jiang. Human Polyomavirus, JCV, as a Potential Marker of Human Waste in the Environment. American Society for Microbiology (ASM) General meeting, Atlanta, Georgia, June 5- 9, 2005
- a-8. Choi, S., S. Jiang. Inactivation of Human Adenoviruses and Fecal Indicator Bacteria in Marine Water. American Society for Microbiology (ASM) General meeting, Atlanta, Georgia, June 5- 9, 2005.
- a-9. Jiang, S., J. He, M. Han. Comparison of four tissue culture cell lines for detection of human adenoviruses in environmental samples. American Society for Microbiology (ASM) General meeting, New Orleans, LA, May 23-27, 2004
- a-10. He, J., S. Jiang. Real-time PCR quantification of human adenoviruses and enterococcus in environmental water samples. American Society for Microbiology (ASM) General meeting, New Orleans, LA, May 23-27, 2004
- a-11. Choi, S., W. Chu, J. He, M. Han. S. Jiang. Application of real time PCR and tissue culture assay for adenovirus detection in two southern California urban rivers. American Society for Microbiology (ASM) General meeting, New Orleans, LA, May 23-27, 2004
- a-12. Chu, W., J. He, J. Han, S. Jiang. Detection of adenovirus in aquatic sediment by real-time PCR and cell culture. American Society for Microbiology (ASM) General meeting, New Orleans, LA, May 23-27, 2004
- a-13. Jiang, S., S.B. Grant, J. Largier, M. Noble, P. Digiacommo, C. Clark, M. Sobsey, J. Redman, J. Noblet. Integration of molecular biology, physical oceanography and remote sensing technology to illuminate the sources and transport pathways of urban coastal pollution. American Society for Limnology and Oceanography, Honolulu, Hawaii, Feb. 16-20, 2004
- a-14. Jiang, S., G. Steward, R. Jellison, W. Chu, S. Choi. Combining culture-based and culture-independent approaches for investigation of viral community dynamics in alkaline hypersaline Mono Lake, California. American Society for Microbiology (ASM) General meeting, Washington DC, May 18-22, 2003
- a-15. Chu, W., S. Choi, and S. Jiang. Concentration of viruses from aquatic environments by Centramate TFF system and centricon plus-80. American Society for Microbiology (ASM) General meeting, Washington DC, May 18-22, 2003
- a-16. Dezfulian, H., W. Chu, S. Jiang. Real-time quantitative PCR for adenovirus hexon gene in aquatic samples. American Society for Microbiology (ASM) General meeting, Washington DC, May 18-22, 2003
- a-17. Choi, S. B., S. Jiang, W. Chu. A seasonal study of viral and bacterial quality in two urban rivers of southern California. American Society for Microbiology (ASM) General meeting, Washington DC, May 18-22, 2003
- a-18. Jiang, S. Chu, W. Urban runoff is a source of human viral contamination to southern California recreational beach waters. ASLO Ocean Science Meeting. Victoria, British Columbia, Canada. June 10-14, 2002

- a-19. Jiang, S. C., W. Fu, W. Chu. 2001. Seasonal dynamics and diversity of *Vibrio cholerae* in Southern California Coastal Waters. American Society for Microbiology (ASM) General meeting, Orlando, Florida, May 20-24, 2001
- a-20. Becker, S. J. and S. C. Jiang. Multiple antibiotic resistance profile in bacteria isolated from a dairy farm and from wetlands. American Society for Microbiology (ASM) General meeting, Orlando, Florida, May 20-24, 2001
- a-21. Jiang, S.C. and L. Zhang. Marine bacteriophage diversity in the northeastern Pacific Ocean. ASLO Ocean Science, Copenhagen, June 2000
- a-22. Jiang, S. C. Detection of human adenovirus and coliphage in beach waters of Southern California. ASM General meeting, Los Angeles, California, May 2000
- a-23. Becker, S. J. and S. Jiang. Prevalence and distribution of antibiotic resistant bacteria along a depth profile in San Pedro Channel, California. ASM General meeting, Los Angeles, California, May 2000
- a-24. Jiang, S. C. and W. Fu. *Vibrio cholerae* in Recreational Beach Waters and Tributaries of Southern California. American Association for Advancement of Science. Washington D.C. Feb. 2000
- a-25. Louis, V., I. Rivera, N. Choopun, S. Jiang, A. Huq, and R. Colwell. Spatial and temporal distribution of *Vibrio cholerae* in the Chesapeake Bay. U.S. and Japan cholera conference. Baltimore, Maryland. Oct. 1999
- a-26. Jiang, S., V. Louis, N. Choopun, A. Sharma, A. Huq, and R. Colwell. Genetic diversity of *Vibrio cholerae* population in the Chesapeake Bay determined by AFLP. ASM General meeting, Chicago, Illinois, May 29 – June 3, 1999
- a-27. Louis, V., N. Choopun, S. Jiang, A. Huq, and R. Colwell. Detection of *Vibrio cholerae* in the Chesapeake Bay related to environmental parameters. ASM General meeting, Chicago, Illinois, May 29 – June 3, 1999
- a-28. Jiang, S., M. Matte, G. Matte, J. Chun, A. Huq and R. Colwell. Phylogenetic diversity of *Vibrio cholerae* in environmental and clinical isolates determined by AFLP fingerprinting. 8<sup>th</sup> International Symposium on Microbial Ecology. Halifax, Nova Scotia, August, 9-14,1998.
- a-29. Jiang, S., W. Straube, J. Jones-Meehan, and W. Jones. Development of a luminescent bacterial biosensor for pollution monitoring in the deep sea environment. ASM General meeting, Atlanta, Georgia, May 17 – 21, 1998
- a-30. Jiang, S.C., P.K. Cochran, and J.H. Paul. Lysogeny and Transduction in the marine environment: seasonal and genetic aspects. ASM General Meeting, New Orleans. May 19-23, 1996
- a-31. Jiang, S.C., J. H. Paul. Detection of lysogenic bacteria in the marine environment by induction. ASLO Ocean Science, San Diego, CA. Feb. 12-16, 1996
- a-32. Jiang, S.C., J. H. Paul. Marine bacteriophage mediated plasmid transduction in the marine environment. Suncoast Biomolecular Science Conference. Tampa, FL Oct. 4, 1996
- a-33. Jiang, S.C., J. H. Paul. Viruses in the marine environment. International symposium on microbiology of the 21st century-a centennial tribute to Louis Pasteur. Beijing, China. Oct. 10-13, 1995
- a-34. Jiang, S.C., J. H. Paul. Induction of indigenous lysogenic bacteria in the marine environment. ASM General Meeting, Washington DC. May 21-25, 1995

- a-35. Jiang, S.C., J.H. Paul. Isolation and characterization of temperate phage-host systems from the marine environment. ASM General Meeting, Las Vegas, NV. May 23-27, 1994
- a-36. Jiang, S.C., J.H. Paul and B. Loraamm. The use of transmission electron microscopy to study the morphology and abundance of viruses indigenous to marine water. Florida Society for Microscopy (FSM), 12th Annual meeting, Daytona Beach, FL. May 5-6, 1994.
- a-37. Jiang, S. C., J. H. Paul. Dissolved DNA and viruses in the marine environment: Diel variation and characterization by differential centrifugation. ASM General Meeting, Atlanta, GA. May 16-20, 1993.
- a-38. Jiang, S. C., J. H. Paul. Viruses in marine environments-seasonal abundance and contribution to dissolved DNA. ASM General Meeting. New Orleans, LA, May 1992.
- a-39. Paul, J. H. and S. C. Jiang. Viruses and dissolved DNA in subtropical estuarine and oceanic environments. ASLO Aquatic Sciences Meeting, Santa Fe, NM, Feb. 9-14 1992.
- a-40. Jiang, S. C., J. M. Thurmond and J. H. Paul. The abundance of viruses and viral DNA contribution to dissolved DNA in seawater. ASM General Meeting, Dallas, TX 5-9 May 1991.
- a-41. Reynolds, K. A., C. Jiang and J. B. Rose. Isolation and quantification of bacteriophage from the marine environment. ASM General Meeting, Dallas, TX 5-9 May 1991.
- a-42. Jiang, S. C., J. M. Thurmond, J. B. Rose and J. H. Paul. The enumeration of viruses and viral DNA contribution to dissolved DNA in seawater. American Society for Microbiology (ASM)-Southeastern Branch. Clearwater, FL. Nov. 1-3, 1990.

### **Recent Professional Activities**

#### ***Ad Hoc Reviewer:***

Journals including Microbial Ecology, Applied and Environmental Microbiology, Hydrobiologia, Bioscience, Aquatic Microbial Ecology; Freshwater Biology; Environmental Microbiology; Water Research; Journal of Water and Health; Advances in Environmental Research; Journal of Electron Microscope Research and Technique; Limnology and Oceanography, Deep Sea Research, Environmental Management, Journal of Applied Microbiology, Journal of Environmental Sciences-China, etc.

Funding Agencies including National Science Foundation, U. S. Environmental Protection Agency, Natural Environment Research Council, United Kingdom; National Oceanic and Atmospheric Administration, California Sea Grant; North Carolina Sea Grant, New Hampshire Sea Grant, Israel National Science Foundation, etc.

#### ***Invited speaker:***

- ◇ University of Southern California, Biological Science Seminar series. Spring, 1999
- ◇ (FDA) EPINET Conference on Micro, Metal, and Chemical Contaminants. Los Angeles, California. Summer, 1999
- ◇ Center for Virus Research, University of California, Irvine. Fall, 2000
- ◇ University of California, San Diego, Marine Biology Seminar Series. Winter, 2001
- ◇ University of California, Los Angeles, Environmental Engineering Seminar Series. Winter, 2001
- ◇ Pacific Rim Shellfish Conference. San Diego, California. April 4-6, 2001
- ◇ Ballona Wetland Foundation Conference. Los Angeles, California. May 17-18, 2001
- ◇ American Society for Microbiology. Orlando, Florida. May 20-24, 2001

- ◇ AAAS Pacific Division Conference, Irvine, California. June, 2001
- ◇ Microbial Source Tracking Workshop, sponsored by USEPA, Marriott Hotel, Irvine, CA, February 5-7, 2002
- ◇ California State University, Long Beach. May 15, 2003
- ◇ University of California, Santa Barbara, Donald Bren School of Environmental Science & Management, March 1-2, 2004
- ◇ Tsinghua University, Department of Civil and Environmental Engineering, March 2004
- ◇ University of California, Santa Cruz, Department of Toxicology, November, 2004
- ◇ Stanford University, Department of Civil and Environmental Engineer, April, 2005
- ◇ University of California, Los Angeles, Environmental Engineering Seminar Series. Fall, 2006
- ◇ Chinese National Academy of Sciences, Center for Eco-Environmental Research, Beijing, China. Summer, 2006
- ◇ Chinese Environmental Protection Agency, Beijing, China. Summer, 2006
- ◇ Nankai University, Institute of Molecular Biology and Biotechnology, Tianjin, China. Summer 2006
- ◇ Scripps Institute of Oceanography, University of California, San Diego, Nov. 2007

***Meeting/Conference Organizer:***

- ◇ Session Chair and organizer, American Society for Limnology and Oceanography, Victoria, Canada 2002
- ◇ Session Chair, Oceans 2003, Lo Jolla. Sept. 2003
- ◇ Session Chair and organizer, American Society for Limnology and Oceanography, Hawaii, 2004
- ◇ Session Chair and organizer, American Society for Limnology and Oceanography, Santiago de Compostela, Spain, June, 2005
- ◇ Organizing Committee member, US-China Joint Workshop on Water Quality and Technology: Challenges and Opportunities, August 23-24, 2007, Beckman Center, University of California at Irvine, California

***Review Board and Panelist***

*AWWA Research Foundation Project Advisory Committee* -Development of F-specific coliphage typing for source water protection/watershed management. 2001-2002

*EPA Review Board*-Microbial Risk of Drinking Water, November 2003

*NSF Review Board*-Biological Oceanography, May, 2004

*WHO Desalination Guideline Development Committee*, October 2004 Irvine, California

**Professional Affiliations**

- Sigma Xi, the Scientific Research Society, UC Irvine Chapter (President 2003-2004; Program Chair 2002-2003; Sec/Treasurer, 2001-2002)
- American Society for Microbiology, Member
- American Society of Limnology and Oceanography, Member

## **Teaching Experience**

### ***Class Instruction***

Average 4.5 courses per year course-load at Environmental Health, Science and Policy, UC Irvine, with student enrolments ranging from 12 to 400 per class. Classes instructed include the following:

“Coastal Ecosystem Health”; “Field Methods for Applied Ecology and Lab”; “Applied Ecology Research”; “Professional Presentation”; “Human Environments”

### ***Students Supervised***

Served as major graduate advisors for 5 students (David Turbow, Sarah Becker, Li Zhang, Amana Rifique, Sam Choi) at UC Irvine; Served as committee members of over 15 students at UC Irvine; Served as research mentors for over 30 undergraduate students at UC Irvine.

### ***Postdoctoral Researchers Supervised***

Hojabr Dezfulian, Sherin Sabet, Jian-Wen He, all at UC Irvine

## **Scientific Research Cruises**

- June 1990. R/V Pelican. Study area: Southeastern Gulf of Mexico, Dry Tortugas.
- Aug. 1990. R/V Cape Hatteras. Study area: Bahamas, Southwestern Atlantic.
- Aug. 1991. R/V Bellows. Study area: West Florida Shelf.
- June 1992. R/V Pelican. Study area: Gulf of Mexico, Dry Tortugas, Bahamas.
- June 1993. R/V Pelican. Study area: Southeastern of Gulf of Mexico, Dry Tortugas.
- Aug. 1994. R/V Pelican. Study area: Southeastern of Gulf of Mexico, Dry Tortugas.
- Sept. 1995. R/V Cape Hatteras. Study area: Atlantic Ocean and North Carolina coast.
- Aug. 1999 R/V Point Sur. Study area: Southern California coastal Pacific Ocean.