

Curriculum Vitae

Yang Wang

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General Information

University address: Earth, Ocean & Atmospheric Science
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Florida State University
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Professional Preparation

- 1992 Ph.D., University of Utah, Salt Lake City, UT. Major: Geology. Supervisor: Dr. Thure Cerling.
- 1986 M.S., Peking University, Beijing, PR China. Major: Geology. Supervisor: Shuhui Zheng.
- 1983 B.S., Peking University, Beijing, PR China. Major: Geology.

Postdegree Education and Training

1992–1995 University of California, Berkeley.

Professional Experience

- 2009–2013 Professor, Earth, Ocean & Atmospheric Science, Florida State University.
- 2002–2009 Associate Professor (8/2002-7/2009), Department of Geological Sciences, Florida State University.
- 1995–2002 Assistant Professor, Department of Geological Sciences, Florida State University.

Teaching

Courses Taught

Advanced Topics in Geochemistry (GLY5297)
Dynamic Earth (GLY1000)
Stable Isotopic Tracers in the Environment (GLY5267)
Living on the Water Planet (GLY1070)
Advanced Topics in Geochemistry (GLY5298)
Doctoral Seminar (GLY6982)

Doctoral Committee Chair

Das, O., graduate. (2012).
Zhang, C., graduate. (2011).
Li, X., graduate. (2009).
Biasatti, D. M., graduate. (2009).
Choi, Y., graduate. (2002). *Quantification of the rate of carbon cycling in a coastal wetland in northwest Florida.*
Ciner, B., doctoral candidate.

Doctoral Committee Cochair

Khawaja, S. N., graduate. (2012).
Gaboardi, M. M., graduate. (2009).
Stern, J., graduate. (2005). *Biogeochemical cycling of carbon, phosphorus, and trace metals.*

Doctoral Committee Member

Coor, J. L., graduate. (2012).
Corbett, J. E., graduate. (2012).
Blair, S. A., graduate. (2011).
Ghosh, S., graduate. (2010).
Tong, J., graduate. (2010).
Wilson, R. M., graduate. (2010).
Kulhanek, D. K., graduate. (2009).
Ghosh, S., graduate. (2008).
Jiang, S., graduate. (2007).
Roessig, K., graduate. (2007).
Sonke, J., graduate. (2003).
Hodgkins, S. B., doctoral candidate.
Sankar, R. D., doctoral candidate.

Tazaz, A. M., doctoral candidate.
Mitchell-Tappin, A. M., doctoral candidate. (2013).
Agbali, A., doctoral student.

Doctoral Committee University Representative

Fitzhugh, L. M., graduate. (2011).
Prater, J., graduate. (2005).
Dillon, K., graduate. (2003).
Chasar, L., graduate. (2002).

Master's Committee Chair

Odezulu, C. I., graduate. (2011).
Gurbuz, B., graduate. (2010). *An isotopic record of late Cenozoic diet, habitat and climate change from northern China.*
Kromhout, E. M., graduate. (2007). *Altitude effect on the stable isotope chemistry of tooth enamel from modern herbivores in Tibet: Implications for paleoclimate and paleoelevation reconstructions.*
Morsey, M., graduate. (2001).
Wallace, T. P., student.

Master's Committee Member

Millen, H. T., graduate. (2012).
Agbali, A., graduate. (2011).
Fernandes, R. I., graduate. (2011).
Dogrul, A., graduate. (2010). *MERCURY ISOTOPES IN PLANTS.*
Tremaine, D., graduate. (2010).
Kowalczyk, A. J., graduate. (2009).
Seinfeld, D., graduate. (2007). *MOLECULAR ARCHAEOLOGICAL INVESTIGATIONS OF OLMEC FEASTING IN CERAMICS FROM SAN ANDRÉS, TABASCO, MEXICO.*
Hannion, M., graduate. (2006).
Arney, J., graduate. (2002).
Kim, D., graduate. (2000).
Li, J., graduate. (2000).
Williams, H., graduate. (1999).
Bambach, P. W., student.
Morris, R. E., student.
Peterson, M. L., student.
Aljhdali, M., student. (2013).
Myers, N. R., student. (2013).

Bachelor's Committee Member

- Norman, J., graduate. (2010). *Exploring Maya Foodways Through Bulk Stable Carbon Isotope Analysis of Ancient Ceramics*.
Wissler, M., graduate. (2000).
Glass, L. S., graduate. (1998).

Supervision of Student Research Not Related to Thesis or Dissertation

- Walker, J. (Sep 2012–Apr 2013).
Goddard, J. D. (Aug 2008–May 2009).

Research and Original Creative Work

Publications

Invited Journal Articles

- Wang, Y., & Hsieh, Y. P. (2002). Uncertainties and novel prospects in the investigation of the soil carbon dynamics. *Chemosphere*, *49*, 791-804.

Refereed Journal Articles

- Das, O., Wang, Y., Donoghue, J., Xu, X., Coor, J., Elsner, J., & Xu, Y. (2013). Reconstruction of paleostorms and paleoenvironment using geochemical proxies in sediment cores from two coastal lakes in northwest Florida. *Quaternary Science Reviews*, *68*, 142-153. Retrieved from <http://dx.doi.org/10.1016/j.quascirev.2013.02.014>
- Wang, X., Li, Q., Xie, G., Saylor, J., Tseng, Z., Takeuchi, G., Deng, T., Wang, Y., Hou, S., & Liu, J., et al. (2013). Mio-Pleistocene Zanda Basin biostratigraphy and geochronology, pre-Ice Age fauna, and mammalian evolution in western Himalaya. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *374*, 81–95. Retrieved from <http://dx.doi.org/10.1016/j.palaeo.2013.01.007>
- Biasatti, D., Wang, Y., Gao, F., Xu, Y., & Flynn, L. (2012). Paleoecologies and Paleoclimates of Cenozoic Mammals from Southwest China: Evidence from Stable Carbon and Oxygen Isotopes. *Journal of Asian Earth Sciences*, *44*, 48-61. doi:10.1016/j.jseaes.2011.04.013.
- Deng, T., Li, Q., Tseng, Z. J., Takeuchi, G., Wang, Y., Xie, G., Wang, S., Hou, S., & Wang, X. (2012). Locomotive implication of a Pliocene three-toed horse skeleton from Tibet and

- its paleo-altimetry significance. *PNAS*, *109* (19), 7374-7378.
doi:10.1073/pnas.1201052109
- Natter, M., Keevan, J., Wang, Y., Keimowitz, A., Okeke, B., Son, A., & Lee, M. G. (2012). Level and Degradation of Deepwater Horizon Spilled Oil in Coastal Marsh Sediments and Pore-Water. *Environmental Science & Technology*, *46*, 5744-5755.
doi:10.1021/es300058w
- Wang, Y., Deng, T., Flynn, L., Wang, X., An, Y., Xu, Y., Parker, W., Lochner, E., Zhang, C., & Biasatti, D. (2012). Late Neogene environmental changes in the central Himalaya related to tectonic uplift and orbital forcing. *Journal of Asian Earth Sciences*, *44*, 62-76.
doi:10.1016/j.jseaes.2011.05.020
- Zhang, C., Wang, Y., Li, Q., Wang, X., Deng, T., Tseng, Z., Takeuchi, G., Xie, G., & Xu, Y. (2012). Diets and environments of late Cenozoic mammals in the Qaidam Basin, Tibetan Plateau: evidence from stable isotopes. *Earth and Planetary Science Letters*, *333-334*, 70-82. Retrieved from <http://dx.doi.org/10.1016/j.epsl.2012.04.013>
doi:10.1016/j.epsl.2012.04.013
- Chen, G., Wu, Z., Gu, B., Li, X., & Wang, Y. (2011). Isotopic niche overlap of two planktivorous fish in southern China. *Limnology*, *12*, 151-155.
doi:10.1007/s10201-010-0332-2.
- Deng, T., Wang, X., Fortelius, M., Li, Q., Wang, Y., Tseng, Z., Takeuchi, G., Saylor, J., Säilä, L., & Xie, G. (2011). Out of Tibet: Pliocene Woolly Rhino Suggests High-Plateau Origin of Ice Age Megaherbivores. *Science*, *333*, 1285-1288. doi:10.1126/science.1206594
- Flynn, L., Deng, T., Wang, Y., Xie, G., Hou, S., Pang, L., Wang, T., & Mu, Y. (2011). Observations on the Hipparion Red Clays of the Loess Plateau. *Vertebrata PalAsiatica*, *49*, 275-284.
- Li, X., Wang, Y., Stern, J., & Gu, B. (2011). Isotopic evidence for the source and fate of phosphorus in Everglades wetland ecosystems. *Applied Geochemistry*, *26*, 688-695.
doi:10.1016/j.apgeochem.2011.01.027
- Tremaine, D., Froelich, P., & Wang, Y. (2011). Speleothem calcite farmed in situ: Modern calibration of $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ paleoclimate proxies in a continuously-monitored natural cave system. *Geochimica et Cosmochimica Acta*, *75*, 4929-4950.
doi:10.1016/j.gca.2011.06.005.
- Wang, X., Xie, G., Li, Q., Qiu, Z., Tseng, Z., Takeuchi, G., Wang, B., Fortelius, M., & et al. (2011). Early explorations of Qaidam Basin (Tibetan Plateau) by Birger Bohlin—Reconciling classic vertebrate fossil localities with modern biostratigraphy. *Vertebrata PalAsiatica*, *49*, 1-11.

- Biasatti, D., Wang, Y., & Deng, T. (2010). Strengthening of the East Asian summer monsoon revealed by a shift in seasonal patterns in diet and climate after 2-3 Ma in northwest China. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 297, 12-25. doi:10.1016/j.palaeo.2010.07.005.
- Das, O., Wang, Y., & Hsieh, Y. P. (2010). Chemical and carbon isotopic characteristics of ash and smoke derived from burning of C3 and C4 grasses. *Organic Geochemistry*, 41, 263-269. doi:10.1016/j.orggeochem.2009.11.001
- Jin, Z., Zhang, L., Wang, Y., Cui, Y., & Milla, K. (2009). Using carbon, hydrogen and helium isotopes to unravel the origin of hydrocarbons in the Wujiaweizi area of the Songliao Basin, China. *Episodes*, 32, 167-176.
- Zhang, C., Wang, Y., Deng, T., Wang, X., Biasatti, D., Xu, Y., & Li, Q. (2009). C4 Expansion in the central Inner Mongolia during the latest Miocene and early Pliocene. *Earth and Planetary Science Letters*, 287, 311-319. doi:10.1016/j.epsl.2009.08.025
- Wang, Y., Kromhout, E., Zhang, C., Xu, Y., Parker, W., Deng, T., & Qiu, Z. (2008). Stable isotopic variations in modern herbivore tooth enamel, plants and water on the Tibetan Plateau: Implications for paleoclimate and paleoelevation reconstructions. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 260, 359-374. doi:10.1016/j.palaeo.2007.11.012.
- Wang, Y., Wang, X., Xu, Y., Zhang, C., Li, Q., Tseng, Z. J., Takeuchi, G., & Deng, T. (2008). Stable isotopes in fossil mammals, fish and shells from Kunlun Pass Basin, Tibetan Plateau: Paleo-climatic and paleo-elevation implications. *Earth and Planetary Science Letters*, 270, 73-85. doi:10.1016/j.epsl.2008.03.006.
- Jiang, S., Wise, S. W., & Wang, Y. (2007). Cause of the Middle/Late Miocene Carbonate Crash: Dissolution or Low Productivity? *Proc. ODP Sci. Results*, 206, 1-24. doi:10.2973/odp.proc.sr.206.013.2007
- Lee, M. K., Griffin, J., Saunders, J., Wang, Y., & Jean, J. S. (2007). Reactive Transport of Trace Elements and Isotopes in the Eutaw Coastal Plain Aquifer, Alabama. *Journal of Geophysical Research*, 112, G02026. doi:10.1029/2006JG000238
- Stern, J., Wang, Y., Gu, B., & Newman, J. (2007). Distribution and turnover of carbon in natural and constructed wetlands in the Florida Everglades. *Applied Geochemistry*, 22, 1936-1948. doi:10.1016/j.apgeochem.2007.04.007.
- Wang, X., Qiu, Z. D., Li, Q., Wang, B., Qiu, Z. X., Downs, W., Wang, Y., Xie, G., & et al. (2007). Vertebrate paleontology, biostratigraphy, geochronology, and paleoenvironment of Qaidam Basin in northern Tibetan Plateau. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 254, 363-385. doi:10.1016/j.palaeo.2007.06.007.

- Ewing, S. A., Sanderman, J., Baisden, W. T., Wang, Y., & Amundson, R. (2006). Role of large-scale soil structure in organic carbon turnover: Evidence from California grassland soils. *J. Geophys. Res.*, *111*, G03012. doi:10.1029/2006JG000174.
- Wang, Y., Deng, T., & Biasatti, D. (2006). Ancient diets indicate significant uplift of southern Tibet after ca. 7 Ma. *Geology*, *34*, 309-312. doi:10.1130/G22254.1.
- Gaboardi, M., Deng, T., & Wang, Y. (2005). Middle Pleistocene climate and habitat change at Zhoukoudian, China, from the carbon and oxygen isotopic record from herbivore tooth enamel. *Quaternary Research*, *63*, 329-338. doi:10.1016/j.yqres.2005.02.006
- Wang, Y., & Deng, T. (2005). A 25 m.y. isotopic record of paleodiet and environmental change from fossil mammals and paleosols from the NE margin of the Tibetan Plateau. *Earth and Planetary Science Letters*, *236*, 322-338. doi:10.1016/j.epsl.2005.05.006
- Choi, Y., & Wang, Y. (2004). Dynamics of carbon sequestration in a coastal wetland using radiocarbon measurements. *Global Biogeochemical Cycles*, *18*(4), GB4016. doi:10.1029/2004GB002261
- Deng, T., Dong, J. S., & Wang, Y. (2002). Variation of terrestrial ecosystem recorded by stable carbon isotopes of fossils in northern China during the Quaternary. *Chinese Science Bulletin*, *47*(1), 76-78.
- Rogers, K., & Wang, Y. (2002). Late Matuyama Climate Shift in the Southern Rocky Mountains: Evidence from Carbon and Oxygen Stable Isotope Ratios in Pleistocene Pocket Gopher Teeth (Colorado, New Mexico). *Quaternary Research*, *57*, 200-207.
- Wang, Y., Hsieh, Y. P., Landing, W., Choi, Y., Salters, V., & Campbell, D. (2002). Chemical and carbon isotopic evidence for the source and fate of dissolved organic matter in the Florida Everglades. *Biogeochemistry*, *61*, 269-289.
- Choi, Y., Wang, Y., Hsieh, Y., & Robinson, L. (2001). Carbon sequestration and vegetation succession in a coastal wetland: Evidence from carbon isotopes. *Global Biogeochemical Cycles*, *15*, 311-320.
- Wang, Y., Amundson, R., & Niu, X. (2000). Seasonal and altitudinal variation in decomposition of soil organic matter inferred from radiocarbon measurements of soil CO₂ flux. *Global Biogeochemical Cycles*, *14*, 199-211.
- Wang, Y., Amundson, R., & Trumbore, S. (1999). The impact of land-use change on C turnover in soils. *Global Biogeochemical Cycles*, *13*, 47-57.
- Amundson, R., Stern, L., Baisden, T., & Wang, Y. (1998). The isotopic composition of soil and soil-respired CO₂. *Geoderma*, *82*, 83-114.

- Wang, K., Chatterton, B., & Wang, Y. (1997). An organic carbon isotope record of Late Ordovician to Early Silurian marine sedimentary rocks, Yangtze Sea, South China: Implications for CO₂ changes during the Hirnantian glaciation. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *132*, 147-158.
- Wang, Y., Jahren, H., & Amundson, R. (1997). Potential for ¹⁴C Dating of Biogenic Carbonate in Hackberry (*Celtis*) Endocarps. *Quaternary Research*, *47*, 337-343.
- Amundson, R., Chakwick, O., Kendall, C., Wang, Y., & DeNiro, M. (1996). Isotopic evidence for shifts in atmospheric circulation patterns during the late Quaternary in mid-North America. *Geology*, *24*, 23-26.
- Slate, J., Smith, G., Wang, Y., & Cerling, T. E. (1996). Carbonate-paleosol genesis in the Plio-Pleistocene St. David Formation, Southeastern Arizona. *Journal of Sedimentary Research*, *66*, 85-94.
- Wang, Y., Amundson, R., & Trumbore, S. (1996). Radiocarbon dating of soil organic matter. *Quaternary Research*, *45*, 282-288.
- Wang, Y., McDonald, E., Amundson, R., McFadden, L., & Chadwick, O. (1996). An isotopic study of soils in chronological sequences of alluvial deposits, Providence Mountains, California. *Geological Society of America Bulletin*, *108*, 379-391.
- Amundson, R., Wang, Y., Chadwick, O., Trumbore, S., McFadden, L., McDonald, E., Wells, S., & DeNiro, M. (1994). Factors and processes governing the carbon-14 content of carbonate in desert soils. *Earth and Planetary Science Letters*, *125*, 385-405.
- Cerling, T. E., Quade, J., & Wang, Y. (1994). Expansion and emergence of C₄ plants. *Nature*, *371*, 112.
- MacFadden, B. J., Wang, Y., Cerling, T. E., & Anaya, F. (1994). South American fossil mammals and carbon isotopes: a 25 million-year sequence from the Bolivian Andes. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *107*, 257-268.
- Wang, Y., Amundson, R., & Trumbore, S. (1994). A model for soil ¹⁴CO₂ and its implications for using ¹⁴C to date pedogenic carbonate. *Geochimica et Cosmochimica Acta*, *58*, 393-399.
- Wang, Y., & Cerling, T. E. (1994). A model of fossil tooth and bone diagenesis: Implications for paleodiet reconstruction from stable isotopes. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *107*, 281-289.
- Wang, Y., Cerling, T. E., & MacFadden, B. J. (1994). Fossil horses and carbon isotopes: new evidence for Cenozoic dietary, habitat, and ecosystem changes in North America. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *107*, 269-279.

- Cerling, T. E., Wang, Y., & Quade, J. (1993). Expansion of C4 ecosystems as an indicator of global ecological change in the late Miocene. *Nature*, *361*, 344-345.
- Smith, G. A., Wang, Y., Cerling, T. E., & Geissman, J. W. (1993). Comparison of a paleosol-carbonate isotope record to other records of Pliocene-early Pleistocene climate in the western United States. *Geology*, *21*, 691-694.
- Wang, Y., Amundson, R., & Trumbore, S. (1993). Processes controlling ^{14}C in soils: model development. *Chemical Geology*, *107*, 225-226.
- Wang, Y., Cerling, T. E., & Effland, B. (1993). Stable isotope ratios of soil carbonate and soil organic matter as indicators of forest invasion of prairie near Ames, Iowa. *Oecologia*, *95*, 365-369.
- Rogers, K., Larson, E. E., Smith, G., Katzman, D., Cerling, T. E., Wang, Y., Baker, R. G., Lohmann, K. C., Repenning, C. A., & et al. (1992). Pliocene and Pleistocene geologic and climatic evolution in the San Luis Valley of south-central Colorado. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *94*, 55-86.
- Cerling, T. E., Quade, J., Wang, Y., & Bowman, J. R. (1989). Carbon isotopes in soils and paleosols as ecology and paleoecology indicators. *Nature*, *341*, 138-139.
- Wang, Y., & Zheng, S. H. (1989). Paleosol Nodules as Pleistocene Paleoclimatic indicators, Luochuan, P. R. China. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *76*, 39-44.

Invited Book Chapters

- Wang, Y., Huntington, T., Osher, L., Wassenaar, L., Trumbore, S., Amundson, R., Harden, J., McKnight, R., & et. al. (1998). Carbon cycling in the terrestrial environments. In C. Kendall, & J. McDonnell (Eds.), *Isotope Tracers in Catchment Hydrology*. Elsevier Science Publishers.
- Cerling, T. E., & Wang, Y. (1996). Stable carbon and oxygen isotopes in soil CO_2 and soil carbonate: theory, practice, and application. In T. W. Boutton, & S. I. Yamasaki (Eds.), *Mass Spectrometry of Soils* (pp. 113-131). Marcel Dekker, Inc., New York.

Refereed Book Chapters

- Wang, Y., Cerling, T. E., Quade, J., Bowman, J. R., Smith, G. A., & Lindsay, E. H. (1993). Stable isotopes of paleosols and fossil teeth as paleoecology and paleoclimate indicators: an example from the St. David Formation, Arizona. In P. K. Swart, K. C. Lohmann, J. McKenzie, & S. Savin (Eds.), *Climate Change in Continental Isotopic Records* (pp. 241-248). American Geophysical Union, Washington DC.

Contracts and Grants

Contracts and Grants Funded

- Wang, Y. (May 2010–Apr 2014). *Collaborative Research: Late Cenozoic Vertebrate Paleontology and Paleoenvironments of the Tibetan Plateau (China)*. Funded by NSF. (EAR-0958602). Total award \$107,000.
- Wang, Yang (PI), Wise, S. W., & Chanton, J. P. (Apr 2009–Mar 2011). *Technician Support for the Stable Isotope Laboratory*. Funded by National Science Foundation. (0824628). Total award \$89,545.
- Donoghue, Joseph F (PI), Kish, S. A., Elsner, J. B., Wang, Y., Hu, X., & Ye, M. (Feb 2009–Mar 2013). *Effects of Near-Term Sea-Level Rise on Coastal*. Funded by U. S. Army Humphreys Engineer. (W912HQ-09-C-0010). Total award \$1,031,063.
- Wang, Yang (PI). (Mar 2008–Dec 2008). *Biogeochemical Analyses of Organic Samples*. Funded by South Florida Water Management. (4500022658). Total award \$49,500.
- Wang, Yang (PI). (Jan 2008–Dec 2010). *Collaborative Research: The Impact of Late Cenozoic Himalayan-Tibetan Uplift on C4 Plant Expansion, Climate and Mammalian Evolution in Northern China*. Funded by National Science Foundation. (0716235). Total award \$50,231.
- Wang, Yang (PI), Wise, S. W., & Chanton, J. P. (Dec 2005–Mar 2009). *Technician Support for the Stable Isotope Laboratory at*. Funded by National Science Foundation. (0517806). Total award \$215,791.
- Wang, Yang (PI). (Jul 2005–Oct 2005). *Determination of the Oxygen Isotopic Composition*. Funded by South Florida Water Management. (PC P502588). Total award \$27,983.
- Wang, Yang (PI). (Mar 2005–Feb 2009). *Collaborative Research: Vertebrate*. Funded by National Science Foundation. (0444073). Total award \$80,408.
- Wang, Yang (PI). (Apr 2004–May 2005). *Study of Oxygen Isotopic Composition of Phosphate in STA*. Funded by South Florida Water Management. (PC P401443). Total award \$49,976.
- Wang, Y.(PI), Chanton, J., Wise, S., & Salters, V. (Jul 2003–Jun 2005). *Acquisition of a stable isotope ratio mass spectrometer*. Funded by NSF. (EAR-0236357). Total award \$215,112.
- Wang, Y. (Jul 2002–Dec 2005). *Isotopic evidence for late Cenozoic climate and ecosystem changes in China*. Funded by NSF. (INT-0204923). Total award \$153,833.

- Furbish, D.(PI), & Wang, Y. (Sep 2001–Mar 2003). *Biocomplexity Incubation: An integrated Approach Towards a Quantitative Model of Salt Marsh Biocomplexity and Morphodynamics*. Funded by NSF. Total award \$67,245.
- Wang, Y. (Nov 2000–Oct 2001). *Isotopic Evidence for Late Cenozoic Ecosystem and Climate Changes in Southwest China*. Funded by NSF. (INT-0002649). Total award \$19,613.
- Wang, Y. (Aug 2000–Jul 2002). *Tracing the source of phosphorus using oxygen isotopic ratios*. Funded by NSF. (EAR-0073851). Total award \$61,993.
- Chanton, J.(PI), & Wang, Y. (Jul 2000–Jun 2001). *Isotopic Studies at Ameriflux Tower Sites: Estimating CO₂ Exchange and Anthropogenic CH₄*. Funded by NIGEC. (1368-787 -41). Total award \$86,577.
- Salters, V.(PI), Cooper, W., Hsieh, Y. P., Landing, W., Marshall, A., Proctor, L., & Wang, Y. (Sep 1997–Mar 1999). *The Speciation and Sources of Dissolved Phosphorus in the Everglades*. Funded by SFWMD. (502456839). Total award \$185,000.
- Wang, Y. (Sep 1997–Aug 2000). *Coastal Wetland Formation and Its Significance to Carbon Sequestration*. Funded by DOD. (1323-623 -41). Total award \$50,291.