

## **Ping Wang, Ph.D.**

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Director, Coastal Research Laboratory  
School of Geosciences  
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### **EDUCATION:**

Ph.D. in Geology, University of South Florida, 1995.

Dissertation: Nearshore Sediment Transport--Field Measurement and Prediction.

M.S. in Marine Geology, Tongji University, Shanghai, China, 1991.

Thesis: Barrier Island Depositional Systems in Northeastern Shandong Peninsula, China.

B.S. in Marine Geology, Tongji University, Shanghai, China, 1988.

### **AREAS OF RESEARCH INTEREST:**

Coastal resiliency  
Coastal sedimentary processes.  
Nearshore sediment transport.  
Nearshore wave and current dynamics.  
Beach-inlet interaction.  
Coastal morphodynamics.  
Coastal engineering and management.  
Numerical modeling of coastal environments.  
Aeolian sand transport.  
Deltaic geology.  
Coastal geology.  
Sedimentary geology.  
Coastal oceanography.  
Marine geology.  
Environmental geology.

## **RESEARCH AND TEACHING EXPERIENCES:**

08/2014-present	Professor, School of Geosciences, University of South Florida.
2023-present	Associate Chair, USF School of Geosciences
09/2009-08/2013	Associate Chair and Graduate Director, Department of Geology, University of South Florida.
08/2007-08/2014	Associate Professor, Department of Geology, University of South Florida.
08/2001-present	Director, Coastal Research Laboratory, University of South Florida.
08/2001-08/2007	Assistant Professor, Department of Geology, University of South Florida.
01/1998-08/2001	Assistant Professor of Research, Coastal Studies Institute, Louisiana State University.
01/2000-08/2001	Visiting Research Scientist, US Army Engineer Research and Development Center, Coastal and Hydraulic Laboratory
01/1997-01/1998	Post-Doctoral Research Associate, Coastal Studies Institute, Louisiana State University.
01/1997-01/1998	Instructor, Department of Geology and Geophysics, Louisiana State University.
10/1995-12/1996	Post-Doctoral Research Associate, Coastal Research Laboratory, University of South Florida.
03/1996-06/1996	Visiting Research Scientist, Conrad Blucher Institute for Surveying and Science, Texas A&M University – Corpus Christi.
06/1992-10/1995	Research Assistant, Coastal Research Laboratory, University of South Florida.
08/1991-05/1992	Regent Graduate Fellow, Texas A&M University.

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

The Coastal Education and Research Foundation (CERF).  
American Shore and Beach Preservation Association (ASBPA).  
Florida Shore and Beach Preservation Association (FSBPA).  
Geological Society of America (GSA)  
American Geophysical Union (AGU).

## PROFESSIONAL HONORS AND SERVICES:

USF Geology Alumni Society Award: 2019

American Shore and Beach Preservation Association (ASBPA): Robert G. Dean  
Coastal Academic Award: 2019

**ASSOCIATE EDITOR:** *ASCE Journal of Waterway, Port, Coastal and Ocean Engineering.* (2005-2009)

**EDITORIAL BOARD:** *Journal of Coastal Research.*  
*Geo-Marine Letters*  
*Journal of Palaeogeography*

**Co-Chair: International Conference on Coastal Sediment'23 (April 11 – 15, 2023, New Orleans).**

**Co-Chair: International Conference on Coastal Sediment'19 (May 27 – 31, 2019, Tampa).**

**Co-Chair: International Conference on Coastal Sediment'15 (May 10 – 14, 2015, San Diego).**

**Co-Chair: International Conference on Coastal Sediment'11 (May 2 – 6, 2011, Miami).**

**Steering Committee: International Conference on Coastal Sediment'07: New Orleans.**

**Section Chair: International Conference on Coastal Sediment'03: Clearwater.**

**Section Chair: International Coastal Symposium, Brazil, 2004.**

### **Reviewer for Numerous Journals and Funding Agencies, including:**

#### Funding Agencies:

National Science Foundation  
Sea Grant College Programs (several States)  
Petroleum Research Institute  
SERDP (Strategic Environmental Research and Development Program)  
The Water Institute of the Gulf (Louisiana)  
Various European Union Coastal Research Programs

#### Peer-Reviewed Journals

*Journal of Coastal Research*  
*ASCE Journal of Waterway, Port, Coastal and Ocean Engineering*  
*Nature*  
*Geo-Marine Letters*  
*Marine Geology*  
*Sedimentary Geology*  
*Journal of Sedimentary Research*  
*Coastal Engineering*  
*Continental Shelf Research*  
*Journal of Geophysical Research*  
*Geophysical Research Letters*  
*Natural Hazards*  
*Earth Surface Processes and Landforms*  
*Estuaries and Coasts*

*Journal of Environmental Management*  
*Shore and Beach*  
*Earth-Science Reviews*  
*Ocean and Coastal Management*  
*Ore Geology Review*

## **UNIVERSITY SERVICES**

2003-2004: Co-Chair, USF Asian Alliance  
 2004-2005: Member, USF Diversity Task Force  
 2001-2005: USF Geology Faculty Advisory Council  
 2001-2005: Various USF Geology Department committees  
 2005-2006: Chair, USF Geology Sedimentology Faculty Search Committee.  
 2009-2013: Associate Chair and Graduate Program Director  
 2012-2013: Chair, College of Arts and Science, Graduate Committee  
 2010-2014: Member, School of Natural Sciences and Mathematics, Graduate Committee  
 2013-2014: Member, College of Arts and Science, Graduate Committee  
 2014-2016: USF Geosciences Faculty Advisory Council  
 2014-2016: Member, School of Natural Sciences and Mathematics (SNSM), Tenure and Promotion Committee  
 2014-2016: Member, College of Arts and Sciences (CAS), Tenure and Promotion Committee  
 2017-2020: USF Geosciences Faculty Advisory Council  
 2020-present: USF Geosciences Faculty Advisory Council

## **STUDENT SUPERVISED (major professor)**

Nicole A. Elko,	Ph.D.	2006
Tiffany M. Roberts,	Ph.D.	2012
Marianne Caldwell,	Ph.D.	2012
Katherine E. Brutsche,	Ph.D.	2014
Jun Cheng,	Ph.D.	2016
Mark H. Horwitz,	Ph.D.	2017
Tanya Beck,	Ph.D.	2019
Youzhu Wang,	Ph.D.	2021 (co-major professor)

Alyssa St. John,	MS	2004
Jennifer Krock,	MS	2005
David Tidwell,	MS	2005
Kyle Kelso,	MS	2007
Tiffany Roberts,	MS	2008
Tanya Beck,	MS	2008
Katherine Brutsche	MS	2011
Mike Cook	MS	2012
Jase Ousley	MS	2012
Andrew Brownell	MS	2013
Denise Davis	MS	2013
Lance Croft	MS	2014

Ming Xie	MS	2014
Emeli Sandoval	MS	2015
Zachery Tyler	MS	2016
Zhaoxu Zhu	MS	2016
Zachary Westfall	M.S.	2018
Joseph Terrano	M.S.	2018
Ruoshu Zhao	M.S.	2018
Charles G Vickery	M.S.	2021
Francesca Toledo Cossu	M.S.	2021
Jacob Adam	M.S.	2021 (co-major professor)
Elizabeth Royer	M.S.	2022
Sophia Gutierrez	M.S.	2024

## POST-DOC/VISITING PROFESSOR SPONSORED

Dr. Daidu Fan,	Tongji University, China	2003-2004
Dr. Vanda Sales Claudino,	Federal University of Ceara, Brazil	2005-2010
Dr. Jicai Zhang,	Nanjing University, China	2009-2011
Dr. Zhiqiang Li,	Guangdong Ocean University	2014-2015
Dr. Jun Cheng	University of South Florida	2016-2022
Dr. Kendal Jackson	University of South Florida	2023-present

## CURRENT GRADUATE STUDENTS (major professor)

Mathieu Vallee	Ph.D.
Elizabeth Royer	Ph.D.
Denise Davis	Ph.D.
Lara Novalvos Hernandez	M.S.
Sydney Scott	M.S.

## PUBLICATIONS

### *Books:*

**Wang, P.** and Tanya M Beck, 2022. Beach-Inlet Interaction and Sediment Management. Cambridge University Press, 363pp.

<https://books.google.com/books?hl=en&lr=&id=xTKAEAAAQBAJ&oi=fnd&pg=PA1&ots=r7alPKq5Pf&sig=vwnvLLyxafqGAbkN4vDWEihXNuc#v=onepage&q&f=false>

### *Peer-Reviewed Journals and Book Chapters (listed from the earliest to the latest):*

Students (with me serving as the major professor) and supervised post-doc researcher underlined

- 1) Li, C., Chen, G., Yao, M., and **Wang, P.**, 1991. The influences of suspended load on the sedimentation in the coastal zones and continental shelves of China. *Marine Geology*, 96: 341-352.

- 2) Li, C. and **Wang, P.**, 1991. Stratigraphy of the Late Quaternary barrier-lagoon depositional systems along the coast of China. *Sedimentary Geology*, 72: 189-200.
- 3) **Wang, P.** and Li, C., 1992. Roundness parameters in barrier-lagoon systems in northeastern Shandong Peninsula, China: limitations to environmental discrimination. *Sedimentary Geology*, 77: 143-152.
- 4) Li, C. and **Wang, P.**, 1994. Stratigraphic models of barrier-lagoon systems in the coastal zones of China. In Zhou Di et al. (eds.), *Oceanology of China Seas*, Kluwer Academic Publishers, the Netherlands, v. 2: 457-464.
- 5) **Wang, P.**, Kraus, N.C., and Davis, R.A., Jr., 1998. Total rate of longshore sediment transport in the surf zone: field measurements and empirical predictions. *Journal of Coastal Research*, 14(1): 269-283.
- 6) **Wang, P.**, Davis, R.A., Jr., and Kraus, N.C., 1998. Cross-shore distribution of sediment textures under breaking waves. *Journal of Sedimentary Research*, 68: 497-506.
- 7) **Wang, P.**, 1998. Longshore sediment flux in the water column and across the surf zone. *Journal of Waterway, Port, Coastal & Ocean Engineering*, ASCE, 124: 108-117.
- 8) **Wang, P.** and Davis, R.A., Jr., 1998. A beach profile model for a barred coast – case study from Sand Key, west-central Florida. *Journal of Coastal Research*, 14(3): 981-991.
- 9) **Wang, P.**, Stone, G.W., and Pepper, D.A., 1998. A preliminary assessment of hydrodynamic responses to detached, segmented breakwaters, south-central Louisiana. *Journal of Coastal Research*, Special Issue 26: 201-207.
- 10) Pepper, D.A., Stone, G.W., and **Wang, P.**, 1998. A preliminary assessment of wave, current, and sediment interactions on the Louisiana shoreface adjacent to the Isles Dernieres. *Recent Research in Coastal Louisiana*, 35-45.
- 11) **Wang, P.** and Kraus, N.C., 1999. Horizontal water trap for measurement of aeolian sand transport. *Earth Surface Processes and Landforms*. 24: 65-70.
- 12) **Wang, P.** and Kraus, N.C., 1999. Longshore sediment transport rate measured by short-term impoundment. *Journal of Waterway, Port, Coastal and Ocean Engineering*, ASCE 125: 118-126.
- 13) **Wang, P.** and Davis, R.A., 1999. Depth of closure and the equilibrium beach profile – A case study from Sand Key, West-Central Florida. *Shore and Beach*, 67: 33-42.
- 14) Stone, G.W., **Wang, P.**, Pepper, D.A., Grymes, J.M., Roberts, H.H., Zhang, X., Hsu, S.A., and Huh, O.K., 1999. Studying the importance of hurricanes to the northern Gulf of Mexico coast. *EOS Transactions, American Geophysical Union*, 80: 301, 305.

- 15) Li, C., **Wang P.**, Fan, D., and Zhang, J., 1999. Late Quaternary stratigraphical framework and potential environmental problems in the Changjiang Delta Region. *Acta Geographical Sinica*, 54 (in Chinese with English abstract).
- 16) Li, C., **Wang P.**, Fan, D., and Li, T., 1999. Sedimentation rate and sedimentary break in tidal deposits. *Marine Geology and Quaternary Geology*, 19 (in Chinese with English abstract).
- 17) Li, C., **Wang P.**, Fan, D., and Li, T., 1999. Tidal flat sedimentation and hiatus in the Shanghai area, China. *Quaternary Sciences*, 43 (in Chinese with English abstract).
- 18) Davis, R.A., **Wang, P.**, and Silverman, B.R., 2000. Comparison of the performance of three adjacent and differently constructed beach nourishment projects on the Gulf peninsula of Florida. *Journal of Coastal Research*, 16: 396-408.
- 19) Li, C., **Wang, P. (corresponding author)**, Fan D., Dang, B., and Li, T., 2000. Open coast intertidal deposits and the preservation potential of individual lamina: a case study from east-central China. *Sedimentology*, 47: 1039-1051.
- 20) Li, C., **Wang, P.**, Fan, D., and Deng, B., 2000. Bruun rule and its application to the coastal zone of China. *Marine Geology and Quaternary Geology*, 20(1): 87-92(in Chinese with English abstract).
- 21) Li, C., **Wang, P. (corresponding author)**, Sun, H., Zhang, J., Fan, D., Deng, B., 2002. Late Quaternary incised-valley fill of the Yangtze delta (China): its stratigraphic framework and evolution. *Sedimentary Geology*, 152, 133-158.
- 22) **Wang, P.**, Smith, E.R., and Ebersole, B.A., 2002. Large-Scale Laboratory Measurements of Longshore Sediment Transport Under Spilling and Plunging Breakers. *Journal of Coastal Research*, 18, 118-135.
- 23) Fan, D., Li, C., Archer, A. W., and **Wang, P.**, 2002. Temporal distribution of diastems in deposits of an open-coast tidal-flat with high suspended sediment concentrations. *Sedimentary Geology*, 152, 173-181.
- 24) **Wang, P.**, Ebersole, B.A., Smith, E.R., and Johnson, B.D., 2002. Temporal and spatial variations of surf-zone currents and suspended-sediment concentration. *Coastal Engineering*, 46, 175-211.
- 25) **Wang, P.**, Ebersole, B.A., and Smith, E.R., 2003. Beach profile evolution under plunging and spilling breakers. *Journal of Waterway, Port, Coastal and Ocean Engineering*, ASCE, 129(1), 41-46.
- 26) **Wang, P.** and Kraus, N.C., 2004. Laboratory investigation of groin notching. *Journal of Coastal Research*, Special Issue 33, 342-367.

- 27) Li, C., **Wang, P. (corresponding author)**, and Fan, D., 2004. Open coast tidal flat deposits. In M. Schwartz, ed., *Encyclopedia of Coastal Science*, pp. 1206-1209.
- 28) **Wang, P.** and G.W. Stone, 2004. Nearshore wave measurement. In M. Schwartz, ed., *Encyclopedia of Coastal Science*, pp. 869-874.
- 29) **Wang, P.**, 2004. Nearshore sediment transport measurement. In M. Schwartz, ed., *Encyclopedia of Coastal Science*, pp. 866-869.
- 30) Fan, D., Li, C., and **Wang, P.**, 2004. Influences of storm erosion/deposition on rhythmites of the late-Ordovician upper Wenchang formation around Tonglu, Zhejiang province, China. *Journal of Sedimentary Research*, 74, 527-536.
- 31) Stone, G.W., Baozhu, Liu, Pepper, D.A., **Wang, P.**, 2004. The importance of extratropical and tropical cyclones on the short-term evolution of barrier islands along the northern Gulf of Mexico, USA. *Marine Geology*, 210, 63-78.
- 32) Fan, D., Li, C., Wang, D., **Wang, P.**, Archer, A.W., and Greb, S.F., 2004. Morphology and sedimentation on open-coast intertidal flats of the Changjian Delta, China. *Journal of Coastal Research*, SI 43, 23-35.
- 33) **Wang, P.** and Kraus, N.C., 2005. Beach profile equilibrium and patterns of wave decay and energy dissipation across the surf zone elucidated in a large-scale laboratory experiment. *Journal of Coastal Research*, 21, 522-534.
- 34) **Wang, P.**, 2006. Measuring longshore sediment transport in a large-scale 3-dimensional laboratory facility. *Journal of Coastal Research*, Special Issue 39, 503-509.
- 35) Tidwell, D.K., and **Wang, P.**, 2006. Processes and patterns of sedimentation at Blind Pass, Florida. *Journal of Coastal Research*, Special Issue 39, 509-514.
- 36) **Wang, P.**, Kirby, J.H., Haber, J.D., Horwitz, M.H., Knorr, P.O., and Krock, J.R., 2006. Morphological and sedimentological impacts of hurricane ivan and immediate post-storm beach recovery along the northwestern Florida barrier-island coasts, *Journal of Coastal Research*, 22, 1382-1402.
- 37) Li, C., **Wang, P. (corresponding author)**, Fan, D., Yang, S., 2006. Characteristics and formation of Late Quaternary incised-valley-fill sequences in sediment-rich deltas and estuaries: case studies from China. *SEPM Special Publication No. 85*, 141-160.
- 38) Fan, D., Guo, Y., **Wang, P.**, and Shi, Z., 2006. Cross-shore variations in morphodynamic processes of an open-coast mudflat in the Changjiang Delta, China: with an emphasis on storm impacts. *Continental Shelf Research*, 26, 517-538.
- 39) Elko, N.A. and **Wang, P.**, 2007. Immediate profile and planform evolution of a beach nourishment project with hurricane influences. *Coastal Engineering*, 54, 54-79.

- 40) **Wang, P.** and **Horwitz, M.H.**, 2007. Erosional and Depositional Characteristics of Regional Overwash Deposits Caused by Multiple Hurricanes. *Sedimentology*, 54, 545-564.
- 41) **Claudino-Sales, V.**, **Wang, P. (corresponding author)** and **Horwitz, M.H.**, 2008. Factors controlling the survival of coastal dunes during multiple hurricane impacts in 2004 and 2005: Santa Rosa barrier island, Florida. *Geomorphology*, 95, 295-315.
- 42) **Wang, P.**; **Davis, R., Jr.** Profundidade de fechamento e perfil de equilíbrio de praia - um estudo de caso em Sand Key, Florida, EUA. *MERCATOR*, 12, 132-157, dezembro 2007, Fortaleza, Brasil. ISSN: 1676-8329. (in Portuguese)
- 43) **Foster, L.D.**, **Shah, N.**, **Ross, M.**, **Ladde, G.S.**, **Wang, P.**, 2008. Using frequency analysis to determine wetland hydroperiod. *Neural, Parallel & Scientific Computations*, 16, 17-34.
- 44) **Guha, S.**, **Kruse, S.**, and **Wang, P.**, 2008. Joint Time-Frequency Analysis of Ground Penetrating Radar Data over Layered Sequences. *The Leading Edge*, 27, 1454-1460.
- 45) **Smith, E.R.**, **Wang, P.**, **Ebersole, B.A.**, and **Zhang, J.**, 2009. Dependence of total longshore sediment transport rates on incident wave parameters and breaker type. *Journal of Coastal Research*, 25, 675-683.
- 46) **Wang, P.** **Roberts, T.M.**, **Horwitz, M.H.** and **Beck, T.M.**, 2009 **(Invited)**. Recent studies at the Coastal Research Laboratory at the Department of Geology, University of South Florida. *Shore and Beach*, 77, 1-7.
- 47) **Roberts, T.M.**, **Wang, P.**, **Kraus, N.C.**, 2010. Limits of beach and dune erosion in response to wave runup from large-scale laboratory data. *Journal of Coastal Research*, 26, 184-198.
- 48) **Claudino-Sales, V.**; **Wang, P. (corresponding author)**, and **Horwitz, M.H.**, 2010. Effect of Hurricane Ivan on coastal dunes of Santa Rosa Barrier Island, Florida: characterized on the basis of pre- and poststorm LIDAR surveys. *Journal of Coastal Research*, 26, 470-484.
- 49) **Shi, J.**, **Li, G.X.** (corresponding author), and **Wang, P.**, 2011. Anthropogenic Influences on the Tidal Prism and Water Exchanges in Jiaozhou Bay, Qingdao, China. *Journal of Coastal Research*, 27, 57-72..
- 50) **Wang, P.**, **Beck, T.M.**, and **Roberts, T.M.**, 2011. Modeling regional-scale sediment transport and medium-term morphology change at a dual inlet system examined with the Coastal Modeling System (CMS): A case study at Johns Pass and Blind Pass, west-central Florida. *Journal of Coastal Research*, Special Issue 59, 49-60.
- 51) **Zhang, J.C.**, **Lu, X.Q.**, **Wang, P.**, **Wang Y.P.** 2011. Study on linear and nonlinear bottom friction parameterization for regional tidal models using data assimilation. *Continental Shelf Research*, 555-573.

- 52) **Wang, P.**, 2011. Principles of sediment transport applicable to tidal environments. In Davis, R.A. and Dalrymple R.A. (eds.) *Principles of Tidal Sedimentology*, Springer, 19-34.
- 53) Peterson, C. H., Felicia C. Coleman, Jeremy B.C. Jackson, R. Eugene Turner, Gilbert T. Rowe, Richard T. Barber, Karen A. Bjorndal, Robert S. Carney, Robert K. Cowen, Jonathan M. Hoekstra, James T. Hollibaugh, Shirley B. Laska, Richard A. Luettich Jr., Craig W. Osenberg, Stephen E. Roady, Stanley Senner, John M. Teal, and **Ping Wang (alphabetical author order after Rowe)** 2011. *A Once and Future Gulf of Mexico Ecosystem: Restoration Recommendations of an Expert Working Group*. Pew Environment Group. Washington, DC. 112 pp.  
<http://www.pewenvironment.org/uploadedFiles/PEG/Publications/Report/Petersonetal-GOM-report.pdf>
- 54) **Wang, P.**, 2012. Measuring and modeling suspended sediment concentration profiles in the surf zone. *Journal of Palaeogeography*, 1(2), 172-193, doi:10.3724/SP.J.1261.2012.00013
- 55) **Wang, P.**, and **Beck, T.M.**, 2012. Morphodynamics of an anthropogenically altered dual-inlet system: John's Pass and Blind Pass, west-central Florida, USA. *Marine Geology*, v. 291-294, 162-175. doi:10.1016/j.margeo.2011.06.001.
- 56) **Zhang, J.**, **Wang P.**, and Hughes, J., 2012. EOF analysis of water level variations for micro-tidal and mangrove-covered Frog Creek System, West-central Florida. *Journal of Coastal Research*, 28, 1279-1288.
- 57) Puleo, J.A., Lanckriet, T.M., and **Wang, P.**, 2012. Near bed cross-shore velocity profiles, bed shear stress and friction on the foreshore of a microtidal beach. *Coastal Engineering*, 68, 6-16. doi:10.1016/j.coastaleng.2012.04.007
- 58) **Roberts, T.M.** and **Wang, P.**, 2012. Four-year performance and associated controlling factors of several beach nourishment projects along three adjacent barrier islands, West-Central Florida, USA. *Coastal Engineering*, 70, 21-39.
- 59) McBride, R.A., Anderson, J.B., Wallace, D., Buynevich, I.V., Cleary, W., Fenster, M., Fitzgerald, D., Harris, M.S., Hein, C.J., Klein, A.H.F., Liu, B., de Menezes, J.T., Pejrup, M., Riggs, S.R., Short, A.D., Stone, G.W., **Wang, P.** (alphabetical author order after McBride), 2013. Morphodynamics of barrier systems: a synthesis. In: Shroder, J. (Editor in Chief), Sherman, D. (Eds.), *Treatise on Geomorphology*. Academic Press, San Diego, CA, vol. 10, Coastal and Submarine Geomorphology, pp. 166–244.
- 60) **Wang, P.** and **Roberts, T.M.**, 2013. Distribution of surficial and buried oil contaminants across sandy beaches along northwest Florida and Alabama coasts following the Deepwater Horizon oil spill in 2010. *Journal of Coastal Research*, 29 (6A), 144-155. doi: <http://dx.doi.org/10.2112/JCOASTRES-D-12-00198.1>

- 61) Roberts, T.M., **Wang, P.**, Puleo, J.A., 2013. Storm-driven cyclic beach morphodynamics of a mixed sand and gravel beach along the Mid-Atlantic coast, USA. *Marine Geology*, 346, 403-421. <http://dx.doi.org/10.1016/j.margeo.2013.08.001>
- 62) Brutsche, K.E., **Wang, P.**, Beck, T.M., Rosati, J.D., and Legault, K.R., 2014. Morphological evolution of a submerged artificial nearshore berm along a low-wave microtidal coast, Fort Myers Beach, West-central Florida, USA. *Coastal Engineering*, 91, 29-44. <http://dx.doi.org/10.1016/j.coastaleng.2014.04.010>
- 63) **Wang, P.** and Roberts, T.M., 2015. Storm-Induced Morphology Changes along Barrier Islands and Post Storm Recovery. In: Ellis J. and Sherman, D. (Eds.), *Sea & Ocean Hazards, Risks and Disasters*, Elsevier.
- 64) Brutsche, K.E., **Wang, P.**, Rosati, J.D., and Beck, T.M., 2015. Influence of berm elevation on the performance of beach-nearshore nourishment: a case study at Perdido Key, Florida, USA. *Journal of Coastal Research*, 31, 964-977, doi: [10.2112/JCOASTRES-D-14-00087.1](https://doi.org/10.2112/JCOASTRES-D-14-00087.1).
- 65) Cheng, J., **Wang, P.**, and Smith, R.E., 2015. Hydrodynamic conditions associated with an onshore migrating and stable sandbar. *Journal of Coastal Research*, 32, 153-163. DOI:10.2112/JCOASTRES-D-14-00174.1.
- 66) Cheng, J. and **Wang, P.**, 2015. Extracting turbulence under breaking waves in the surf zone. *ASCE Journal of Waterway, Port, Coastal, and Ocean Engineering*, 141(6), 1-10.
- 67) Nation, M.T., Feldman, A., and **Wang, P.**, 2015. A Rising Tide. *The Science Teacher*, 82.
- 68) **Wang, P.** and Cheng, J., 2017. Storm Impacts on the Morphology and Sedimentology of Open-Coast Tidal Flats. In: Ciavola P. and Coco G. (Eds.), *Coastal Storms: From Forecasting to Prediction*, Willey, 81-98.
- 69) **Wang, P.**, and Beck, T.M., 2017. Determining dredge-induced turbidity and sediment plume settling within an Intracoastal Waterway System. *Journal of Coastal Research*, 33, 243-253, doi:10.2112/JCOASTRES-D-16-00083.1.
- 70) Zhang, J., Chu, D., **Wang, P.**, Hughes, J., and Cheng, J., 2016. Hydrodynamic modelling of salinity variations in a semi-engineered mangrove wetland: The microtidal Frog Creek System, Florida. In Tessier, B., Reynaud, J-Y. (eds.), *Contributions to Modern and Ancient Tidal Sedimentology*, Special Publication Number 47 of the International Association of Sedimentologists, 5-20.
- 71) Cheng, J., **Wang, P.**, and Guo, Q., 2016. Measuring beach profiles along a low-wave energy microtidal coast, west-central Florida, USA. *Geosciences*, 6(4), 44-51.
- 72) **Wang, P.**, Congxin Li, Fan, D. and J. Cheng, 2017. Open coast tidal flat deposits. In C. Finkl, ed., *Encyclopedia of Coastal Science*, 2<sup>nd</sup> Edition, in press.

- 73) **Wang, P.**, G.W. Stone, and **J. Cheng**, 2017. Nearshore wave measurement. In C. Finkl, ed., *Encyclopedia of Coastal Science*, 2<sup>nd</sup> Edition, in press.
- 74) **Wang, P.**, 2017. Nearshore sediment transport measurement. In C. Finkl, ed., *Encyclopedia of Coastal Science*, 2<sup>nd</sup> Edition, in press.
- 75) Claudino-Sales, V., **Wang, P.**, and Carvalho, A. M., 2018. Interactions between various headlands, beaches and dunes along the coast of Ceara State, Northeast Brazil. *Journal of Coastal Research*, 34., 413-428
- 76) **Cheng, J.** and **Wang, P.**, 2018. Dynamic equilibrium of sandbar position and height along a low wave energy micro-tidal coast, *Continental Shelf Research*, 165, 120-136.
- 77) **Beck, T.M.** and **Wang, P.**, 2019. Morphodynamics of barrier-inlet systems in the context of regional sediment management, with case studies from west-central Florida, USA, *Ocean and Coastal Management*, 177, 31-51.
- 78) **Cheng, J.** and **Wang, P.**, 2019. Unusual beach changes induced by Hurricane Irma with a negative storm surge and poststorm recovery. *Journal of Coastal Research*, 35, 1185 – 1199, <https://doi.org/10.2112/JCOASTRES-D-19-00038.1> .
- 79) **Wang, P.**, Adam, J.D., **Cheng, J.**, and Vallée, M., 2020. Morphological and Sedimentological Impacts of Hurricane Michael along the Northwest Florida Coast. *Journal of Coastal Research*, 36, 932-950, <https://doi.org/10.2112/JCOASTRES-D-19-00179.1>.
- 80) Beck, T.M., **Wang, P.**, Li, H., and Wu, W., 2020. Sediment Bypassing Pathways between Tidal Inlets and Adjacent Beaches. *Journal of Coastal Research*, 36, 897-914, <https://doi.org/10.2112/JCOASTRES-D-19-00141.1> .
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- 85) **Cheng, J.**, **Toledo Cossu**, and **Wang, P.** and, 2021. Factors controlling longshore variations of beach changes induced by Tropical Storm Eta (2020) along Pinellas County beaches, west-central Florida, *Shore and Beach*, 89, <http://doi.org/10.34237/1008929>.
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- 87) **Cheng, J.** and **Wang, P.**, 2022. Factors controlling storm-induced morphology changes at an erosional hot spot on a nourished beach, Sand Key barrier island, west-central Florida. *Journal of Coastal Research*, 38, 750-765. [DOI: 10.2112/JCOASTRES-D-21-00083.1](https://doi.org/10.2112/JCOASTRES-D-21-00083.1).
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- 91) **Jackson, Kendal**, **Thomas J. Pluckhahn**, **Jaime A. Rogers**, **Ping Wang**, and **Victor Thompson**, 2023. Geoarchaeology and Coastal Morphodynamics of Harbor Key (8MA15): Indigenous Persistence at a Partially Inundated Shell Mound Complex in Tampa Bay, Florida. *American Antiquity*, 1-23, doi:10.1017/aaq.2023.45.
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- 94) Van Alphen, R. Rodgers, M., Malservisi, R. **Wang, P.**, Cheng, J. Valleé, M., 2024. Application of UAV structure-from-motion photogrammetry to a nourished beach for assessment of storm surge impacts, Pinellas County, Florida. *IEEE Transactions on Geoscience and Remote Sensing*, 62, DOI: 10.1109/TGRS.2024.3417306
- 95) **Wang, P.**, Royer, E.L., and Gutierrez, S., 2024. Hurricane Idalia (2023) induced dune erosion along West-Central Florida barrier-island coast and post-storm restoration. *Shore and Beach*, in press, invited.

***Edited Conference Proceedings (listed from the earliest to the latest):***

Students (with me serving as the major professor) and supervised post-doc researcher underlined

- 1) **Wang, P.** and Davis, R.A. Jr., 1994. Field measurement of longshore sediment transport in the surf zone: Preliminary results. *Proceedings of 1994 National Conference on Beach Preservation Technology*, Florida Shore and Beach Preservation Association, Tallahassee, 413-428.
- 2) Davis R.A., Jr., and **Wang, P.**, 1997. Hurricane Opal induced changes on natural and nourished beaches, west-central Florida. *Proceedings of 25th International Conference on Coastal Engineering*, ASCE, New York, 2982-2993.
- 3) **Wang, P.** and Davis, R.A., Jr., 1997. A beach profile model for barred coast: with a case study from Sand Key, west-central Florida. *Proceedings of 1996 National Conference on Beach Preservation Technology*, Florida Shore and Beach Preservation Association, Tallahassee, 320-335.
- 4) **Wang, P.** and Kraus, N.C., 1999. Longshore sediment transport rate measured by short-term impoundment and quantification of uncertainties. *Proceedings of Coastal Sediments '99*, ASCE, 770-785.
- 5) Stone, G.W. and **Wang P.**, 1999. Unanticipated nearshore response to detached, segmented breakwaters along Raccoon Island, Louisiana, U.S.A. *Proceedings of Coastal Sediments '99*, ASCE, 2057-2072.
- 6) Stone, G.W. and **Wang P.**, 1999. The importance of cyclogenesis on the short-term evolution of Gulf coast barriers. *Transactions, Gulf Coast Association of Geological Society*, XLIX, 478-486.
- 7) Pepper, D.A., Stone, G.W., and **Wang, P.**, 1999. Bottom boundary layer parameters and sediment transport on the Louisiana inner-shelf during cold front passages. *Transactions, Gulf Coast Association of Geological Society*, XLIX, 433-439.

- 8) Smith, E.R., and **Wang, P.**, 2001. Longshore sediment transport as a function of energy dissipation. *Proceedings of Waves2001: the 4<sup>th</sup> International Symposium on Ocean Wave Measurements and Analysis*, ASCE Press, 810-820.
- 9) **Wang, P.**, Ebersole, B.A., Smith, E.R., and Johnson, B.D., 2003. Temporal and spatial variations of surf-zone currents and suspended-sediment concentration. *Proceedings of Coastal Sediments '03*, ASCE.
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- 11) Tidwell, D.K., **Wang, P.**, Davis, R.A., Vinther, N., and Elko, N.A., Hydrodynamics and sediment pathways at Blind Pass, Florida. *Proceedings of Coastal Sediments '03*, ASCE.
- 12) Wilhoit, J. C., Davis, R. A., and **Wang, P.**, 2003, Hydrodynamic and geomorphic characteristics of a natural tide-dominated inlet; a case study at Bunces Pass, Florida., *Proceedings of Coastal Sediments '03*, ASCE.
- 13) Horwitz, M.H. and **Wang, P.**, 2005, Sedimentological characteristics and internal architecture of two overwash fans from Hurricanes Ivan and Jeanne. *Transactions Gulf Coast Association of Geological Society*.
- 14) O'Neal-Caldwell, M., **Wang, P.**, Horwitz, M.H., Kirby, J.H., and Guha, S., 2005, Regional overwash from hurricanes Frances-Jeanne and Ivan. *Transactions Gulf Coast Association of Geologic Societies*.
- 15) Guha, S., Kruse, S., **Wang, P.**, and Conor, C., 2006. Time-frequency representation of GPR signals from coastal and volcanic deposits. *Proceedings of 11<sup>th</sup> International Conference on Ground Penetrating Radar*.
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- 17) Davis, R.A. **Wang, P.**, and Beck, T.M., 2007. Natural and anthropogenic influences on the morphodynamics of Big Sarasota Pass, Florida. *Proceedings of Coastal Sediments07*. ASCE Press, 1582-1588.
- 18) Roberts, T.M. **Wang, P.**, and Kraus, N.C., 2007. Limits of beach and dune erosion in response to wave runup elucidated from SUPERTANK. *Proceedings of Coastal Sediments07*. ASCE Press, 1961-1974.
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- 24) Roberts, T.M., Wang, P., and Elko, N.A., 2009. Physical performance of beach nourishment projects along a microtidal low-energy coast, west-central Florida, USA. *Proceedings of Coastal Dynamics 2009*. World Scientific Publishing Company.
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- 27) Roberts, T.M., and Wang, P., 2011. Profile change and post-storm recovery of Delaware beaches resulting from three consecutive storms in 2009. *Proceedings of Coastal Sediment 2011*. World Scientific Publishing Company.
- 28) Wang, P., Cheng, J., Horwitz, M.H., and Legault, K.R., 2015. Comparing two numerical models in simulating hydrodynamics and sediment transport at a dual inlet system, west-central Florida. *Proceedings of Coastal Sediments 2015*. World Scientific Publishing Company.
- 29) Brutsché, K.E., Wang, P., Rosati, J.D., Pollock, C.E., 2015. Engineering with nature: nearshore berm placements at Fort Myers Beach and Perdido Key, Florida, USA. *Proceedings of Coastal Sediments 2015*. World Scientific Publishing Company.
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- 31) Rahman, R., Jayaratne, R., Tejada-Martinez, A.E., and **Wang, P.**, 2015. Numerical investigation of beach profile evolution using a new sediment concentration model. *Proceedings of Coastal Sediments 2015*. World Scientific Publishing Company.
- 32) **Wang, P.**, Cheng, J., Vallee, M., and Westfall, Z., 2019. Management Study at Multiple Natural and Engineered Tidal Inlets, West-Central Florida, USA. *Proceedings of Coastal Sediments 2019*. World Scientific Publishing Company.
- 33) Vallee, M.A., **Wang, P.**, Cheng, J., 2019. Regional Scale Morphological Changes of the Barrier Islands at the Entrance in Response to Engineering Activities in Tampa Bay. *Proceedings of Coastal Sediments 2019*. World Scientific Publishing Company.
- 34) Cheng, J., and **Wang, P.**, 2019. Alongshore Variations of Sandbar Morphodynamics under Energetic Conditions. *Proceedings of Coastal Sediments 2019*. World Scientific Publishing Company.
- 35) Rogers, M., Vallee, M.A., **Wang, P.**, and Cheng, J., 2019. Measuring Complex Beach-Dune Morphology and Nearshore Processes Using UAVS. *Proceedings of Coastal Sediments 2019*. World Scientific Publishing Company.
- 36) **Wang, P.**, and Beck, T.M., 2023. Beach-inlet interaction and regional sediment management at pristine and developed barrier islands. *Proceedings of Coastal Sediments 2023*. World Scientific Publishing Company.
- 37) Royer, E., and **Wang, P.**, 2023. The influence of temporal and spatial scales on the depth of closure along florida coast. *Proceedings of Coastal Sediments 2023*. World Scientific Publishing Company.
- 38) Gutierrez, S., and **Wang, P.**, 2023. Assessing the performance of three consecutive cycles of beach nourishment on two west-central florida barrier islands. *Proceedings of Coastal Sediments 2023*. World Scientific Publishing Company.

***Technical Reports (listed from the earliest to the latest):***

**Wang, P.**, Kraus, N.C., and Heilman, D.J., 1996. Wind-Blown Sand at Packery Channel. *Progress Report*, Conrad Blucher Institute of Surveying and Science, Texas A&M University-Corpus Christi, TX.

**Wang, P.**, Kling, J.A., and Davis, R.A., Jr., 1996. Regional Wave Analysis at Egmont Ebb-Tidal Shoal and Surrounding Areas Using RCPWAVE. *Technical Report*, Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL.

Stone, G.W., **Wang, P.**, and Zhang, X., 1998. Wave Height Measurements at the Raccoon Island Breakwaters Demonstration Projection (TE-29): *Technical Report*, Coastal Studies Institute, Louisiana State University, Baton Rouge, LA.

- Stone, G.W., **Wang, P.**, and Zhang, X., 1999. Wave Height Measurements At The Lake Salvador Shoreline Protection Demonstration Project (Ba-15): *Technical Report*, Coastal Studies Institute, Louisiana State University, Baton Rouge, LA.
- (peer-reviewed) Wang, P.**, Ebersole, B.A., and Smith, E.R., 2002. Longshore Sand Transport – Initial Results from the Large-Scale Sediment Transport Facility. *ERDC/CHL CHETN-II-46*, March 2002, U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi.
- (peer-reviewed) Hamilton, D.G.**, Bruce, E.A., Smith, E.R., and **Wang, P.**, 2001. Development of A Large-Scale Laboratory Facility for Sediment Transport Research. *Technical Report*, ERDC/CHL TR-01-22, U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi, 158p.
- Wang, P.**, 2003. Beach Performance for Treasure Island, Pinellas County, Florida. *Technical Report*, Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL.
- (peer-reviewed) Smith, E.R.**, Ebersole, B.A., and **Wang, P.**, 2004. Dependence of total longshore sediment transport rates on incident wave parameters and breaker type. *ERDC/CHL CHETN-II-46*, March 2002, U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi
- Wang, P.**, 2004. Bathymetric Survey at Upper Peace River, Shell Creek, and Dona-Roberts Bay *Technical Report*, Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL.
- Wang, P.**, 2005. Bathymetric and Shoreline Survey at Weeki Wachee River. *Technical Report*, Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL.
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- Wang, P.**, 2006. Bathymetric and Shoreline Survey at Withlacoochee River. *Technical Report*, Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL.
- (peer-reviewed) Gravens, M.B.** and **Wang, P.**, 2007. Data Report: laboratory Testing of Longshore Sand Transport by Waves and Currents; Morphology Change Behind Headland Structures. *ERDC/CHL TR-07-8*, August 2007, U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi.
- Wang, P.** and Roberts, T.M., 2007. Performance of Upham Beach T-groin Project and Its Impact to the Downtdrift Beach. *Technical Report*, Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL.

- Wang, P.** and Roberts, T.M., 2008. Performance of Upham Beach T-groin Project and Its Impact to the Downdrift Beach. *Technical Report*, Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL.
- Wang, P.**, 2008. Bathymetric and Shoreline Survey at Cotee River. *Technical Report*, Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL.
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- (peer-reviewed) Beck, T.M., **Wang, P.** and Kraus, N.C., 2009. Influences of Channel Dredging on Flow and Sedimentation Patterns at Microtidal Inlets, West-Central Florida, USA. *CIRP Publications on CMS Topics*: <http://cirp.wes.army.mil/wiki/Publications>.
- Wang, P.** and Roberts, T.M., 2010. Performance of Upham Beach T-groin Project and Its Impact to the Downdrift Beach. *Technical Report*, Coastal Research Laboratory, Department of Geology, University of South Florida, Tampa, FL.
- (peer-reviewed) Brutsche K. and **Wang, P.**, 2012. First Year Morphological Evolution of an Artificial Berm at Fort Myers Beach, Florida. ERDC/CHL CHETN-II-54, pp. 10.
- Wang, P.** and Roberts, T.M., 2012. Volume and Shoreline Changes along Pinellas County Beaches during Tropical Storm Debby. Report submitted to Pinellas County.
- (peer-reviewed) **Wang, P.**, Brutsche, K.E., Lagrone, J.W., Beck, T.M., Rosati, J.D., and Lillycrop, L.A., 2013. Performance Monitoring of a Nearshore Berm at Ft. Myers Beach, Florida: Final Report. ERDC/CHL TR-13-11, pp. 203.
- (peer-reviewed) **Wang, P.**, Brutsche, K.E., Beck, T.M., Rosati, J.D., and Lillycrop, L.A., 2013. Initial Morphologic Evolution of Perdido Key Berm Nourishment, Florida. ERDC/CHL CHETN-IV-X, pp. 10.
- (peer-reviewed) **Wang, P.**, Horwitz, M.H., and Cheng, J., 2016. Inlet Management Study for John's Pass and Blind Pass, Pinellas County, Florida. Final Report submitted to Florida Department of Environmental Protection.
- Wang, P.** and Cheng, J., and Westfall, Z, 2016. Volume and Shoreline Changes along Pinellas County Beaches during the Passage of Hurricane Hermine. Report submitted to Pinellas County.
- Wang, P.** and Cheng, J., 2016. Performance of the Pinellas County Beach Nourishment Projects along Sand Key, Treasure Island, and Long Key. Annual Report submitted to Pinellas County.

**Wang, P.** and Cheng, J., Westfall, Z, and Vallee, M., 2017. Volume and Shoreline Changes along Pinellas County Beaches during the Passage of Hurricane Irma in 2017. Report submitted to Pinellas County.

**Wang, P.** and Cheng, J., 2017. Performance of the Pinellas County Beach Nourishment Projects along Sand Key, Treasure Island, and Long Key. Annual Report submitted to Pinellas County.

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Cheng, J. and **Wang, P.**, 2019. Performance of the Pinellas County Beach Nourishment Projects along Sand Key, Treasure Island, and Long Key. Annual Report submitted to Pinellas County.

Cheng, J. and **Wang, P.**, 2020. Performance of the Pinellas County Beach Nourishment Projects along Sand Key, Treasure Island, and Long Key. Annual Report submitted to Pinellas County.

Cheng, J., and **Wang, P.**, 2020. Volume and Shoreline Changes along Pinellas County Beaches during the Passage of Tropical Storm Eta in 2020. Report submitted to Pinellas County.

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**Wang, P.** and Gutierrez, S., 2023. Performance of the Pinellas County Beach Nourishment Projects along Sand Key, Treasure Island, and Long Key. Annual Report submitted to Pinellas County.

### ***Field Trip Guides:***

Davis R.A., Jr., and **Wang, P.**, 2003. Drumstick Barriers of the West-central Gulf Coast. For *International Conference on Coastal Sediments '03*.

Davis R.A., Jr., and **Wang, P.**, 2003. Developed Coast of Pinellas County, Florida. For *University of South Florida, Geology Summer Field Camp*.



6) **PI (Wang)**

Title: Bathymetric Survey for the 77-Acre Piney Point Pond  
Agency: Florida Department of Environmental Protection, Florida  
Dates: 2021  
Funded amount: \$10,000

7) **PI (Wang)**

Title: Causes and Mitigation of Sedimentation along the Northern Side of Johns Pass Channel  
Agency: Pinellas County, Florida  
Dates: 2020-2021  
Funded amount: \$35,000

8) **PI (Wang)**

Title: Numerical Modeling of Circulation Pattern within the Fort De Soto Park Bay  
Agency: Pinellas County, Florida (RESTORE fund)  
Dates: 2019-2021  
Funded amount: \$109,375

9) **PI (Wang)**

Title: Influences of Storm Surge on the Determination and Applications of Closure Depth  
Agency: United States Coastal Research Program  
Dates: 2020-2022  
Funded amount: \$49,845

10) **PI (Wang)**

Title: Physical Monitoring of the Sand Key and Treasure Island/Long Key Nourishment Projects  
Agency: Pinellas County, Florida  
Dates: 2018-2023  
Funded amount: \$393,325

11) **PI (Wang)**

Title: RAPID: 2018 Hurricane Season: Sedimentological and Morphological Characteristics of Hurricane Michael Induced Storm Deposits in Apalachicola Bay  
Agency: National Science Foundation  
Dates: 2018-2019  
Funded amount: \$39,107

12) **PI (Wang)**

Title: Support of Backbarrier Shoreline Change Research  
Agency: United States Geological Survey  
Dates: 2016-2018  
Funded amount: \$99,073

- 13) PI (**Wang**)  
Title: Investigating Beach Changes Associated with Post-nourishment Profile Equilibration on Turtle Nesting  
Agency: U.S. Fish and Wildlife Service  
Dates: 2017-2022  
Funded amount: \$95,000
- 14) PI (**Wang**)  
Title: Topographic Survey for Four Coastal Marsh/Mangrove Sites around Tampa Bay  
Agency: Florida Fish & Wildlife Conservation Commission  
Dates: 2016-2017  
Funded amount: \$9,900
- 15) PI (**Wang**)  
Title: Beach Management Plan for the City of Treasure Island  
Agency: City of Treasure Island, FL  
Dates: 2016-2017  
Funded amount: \$20,000
- 16) PI (**Wang**)  
Title: Inlet Management Study for Pass-a-Grille Inlet and Bounces Pass, Pinellas County, Florida  
Agency: Pinellas County and Florida Department of Environmental Protection  
Dates: 2016-2018  
Funded amount: \$186,555
- 17) PI (**Wang**)  
Title: Shoreline Mapping and Bathymetry Survey Project for the Homosassa River Headspring and Mason Creek  
Agency: Southwest Florida Water Management District  
Dates: 2014-2015  
Funded amount: \$5,601
- 18) PI (**Wang**)  
Title: Inlet Management Study for John's Pass and Blind Pass, Pinellas County, Florida  
Agency: Florida Department of Environmental Protection  
Dates: 2014-2015  
Funded amount: \$198,796
- 19) Co-PI (Wang, with Glenn Smith (PI), Allan Feldman, and Yiping Lou)  
Title: Climate Change Narrative Game Education (CHANGE)  
Agency: National Science Foundation  
Dates: 2013-2017  
Funded amount: \$449,972

20) PI (**Wang**)

Title: Mapping Surveys to Evaluate Storm Effects on Pinellas County Beaches.

Agency: Pinellas County, Florida

Dates: 2014-2016

Funded amount: \$55,000

21) PI (**Wang**)

Title: Shoreline Mapping and Bathymetry Survey Project for the Rainbow River System

Agency: Southwest Florida Water Management District

Dates: 2013-2014

Funded amount: \$24,203

22) PI (**Wang**)

Title: Surveys at Upham Beach T-groin project 2013-2014.

Agency: Pinellas County, Florida

Dates: 2013-2014

Funded amount: \$16,464

23) PI (**Wang**)

Title: Shoreline Mapping and Bathymetry Survey Project for the Bullfrog Creek System

Agency: Southwest Florida Water Management District

Dates: 2013-2013

Funded amount: \$17,900

24) PI (**Wang**)

Title: Physical Monitoring of the Sand Key and Treasure Island/Long Key Nourishment Projects

Agency: Pinellas County, Florida

Dates: 2013-2018

Funded amount: \$352,660

25) PI (**Wang**)

Title: Collaborative Research: Bringing Problem Solving in the Field into the Classroom: Developing and Assessing Virtual Field Trips for Teaching Sedimentary and Introductory Geology

Collaborated with Hillsborough Community College (Dr. Marianne Caldwell)

Agency: National Science Foundation

Dates: 2011-2014

Funded amount: \$229,785 (USF portion: 187,554)

26) PI (**Wang**)

Title: Shoreline Mapping and Bathymetry Survey Project for the Charlotte Harbor, Lower Peace River and Lower Myakka River System

Agency: Southwest Florida Water Management District

Dates: 2011-2012

Funded amount: \$92,831

- 27) PI (**Wang**)  
Title: Morphodynamics of Nearshore Berms and Associated Tidal Inlet Processes  
Agency: U.S. Army Engineer Research and Development Center (ERDC)  
Dates: 2011-2014  
Funded amount: \$490,838
- 28) PI (**Wang**)  
Title: RAPID: Emergency Field Investigation of Oil-Beach Interaction along the Alabama and Florida Beaches Following the BP Deepwater Horizon Oil Spill  
Agency: National Science Foundation  
Dates: 2010-2011  
Funded amount: \$44,632
- 29) PI (**Wang**)  
Title: Physical Monitoring of the Sand Key and Treasure Island/Long Key Nourishment Projects  
Agency: Pinellas County, Florida  
Dates: 2010-2013  
Funded amount: \$141,064
- 30) PI (**Wang**)  
Title: Periodic Shoreline and Vegetation-line Studies Evaluating Storm Effects and Seasonal Variations of Pinellas County Gulf Beaches  
Agency: Pinellas County  
Dates: 2010-2013  
Funded amount: \$36,000
- 31) PI (**Wang**)  
Title: Additional Surveys at Upham Beach T-Groin Project Area for the Monitoring of the 2010 Repair and Beach Nourishment  
Agency: Pinellas County  
Dates: 2010-2013  
Funded amount: \$44,592
- 32) PI (**Wang**)  
Title: Modeling Coastal Processes at John's Pass and Blind Pass and Adjacent Beaches  
Agency: Pinellas County, Florida  
Dates: 2008-2010  
Funded amount: \$82,735
- 33) PI (**Wang**)  
Title: Physical Monitoring of the Sand Key and Treasure Island/Long Key Nourishment Projects  
Agency: Pinellas County, Florida  
Dates: 2006-2011  
Funded amount: \$376,908

- 34) PI (**Wang**)  
Title: Modeling Medium-Term Morphology Change at Blind Pass, Florida  
Agency: U.S. Army Engineer Research and Development Center  
Dates: 2007-2009  
Funded amount: \$190,000
- 35) PI (**Wang**)  
Title: Response of the Frog Creek System to Constructed Offline Intertidal Lagoons  
Agency: U.S. Geological Survey  
Dates: 2009-2010  
Funded amount: \$25,000
- 36) PI (**Wang**)  
Title: Periodic Shoreline and Vegetation-line Studies Evaluating Storm Effects and Seasonal Variations of Pinellas County Gulf Beaches  
Agency: Pinellas County  
Dates: 2008-2011  
Funded amount: \$36,000
- 37) PI (**Wang**)  
Title: Shoreline and Bathymetry Study at Hillsborough River, Florida  
Agency: Southwest Florida Water Management District  
Dates: 2008-2009  
Funded amount: \$28,498
- 38) PI (**Wang**)  
Title: Shoreline and Bathymetry Study at Cotte River, Florida  
Agency: Southwest Florida Water Management District  
Dates: 2007-2008  
Funded amount: \$36,634
- 39) PI (**Wang**)  
Title: Assessing Petroleum Hydrocarbon Contamination at Blind Pass, Florida  
Agency: Collaborative research among NOAA, USACE, and Pinellas County, Florida  
Dates: 2006-2008  
Funded amount: \$119,770 (USF portion; ~\$500,000 total)
- 40) PI (**Wang**)  
Title: Shoreline and Bathymetry Study at Homosassa River, Florida  
Agency: Southwest Florida Water Management District  
Dates: 2006-2007  
Funded amount: \$39,065

- 41) CO-PI (**Wang** and Davis)  
 Title: Sarasota County Comprehensive Inlet Management Program Big Sarasota Pass and New Pass  
 Agency: Sarasota County, Florida  
 Dates: 2005-2007  
 Funded amount: \$114,800
- 42) PI (**Wang**)  
 Title: Shoreline and Bathymetry Study at Manatee River and Chassawihzika River, Florida  
 Agency: Southwest Florida Water Management District  
 Dates: 2005-2006  
 Funded amount: \$56,611
- 43) PI (**Wang**)  
 Title: Sedimentary characteristics and stratigraphy at Dona-Roberts Bay, Florida  
 Agency: Mote Marine Laboratory and Satasota County  
 Dates: 2005-2006  
 Funded amount: \$19,920
- 44) PI (**Wang**)  
 Title: SERG: Morphological Impacts and Post-storm Recovery of Hurricanes Charley, Frances, Ivan, and Jeanne, Florida Gulf Coast  
 Agency: National Science Foundation  
 Dates: 2004-2005  
 Funded amount: \$13,900
- 45) PI (**Wang**)  
 Title: Shoreline and Bathymetry Study at Anclote River, Little Manatee River, and Weeki Wachee River, Florida  
 Agency: Southwest Florida Water Management District  
 Dates: 2004-2006  
 Funded amount: \$70,611
- 46) PI (**Wang**)  
 Title: Performance Monitoring of Treasure Island Beach  
 Agency: Pinellas County, Florida  
 Dates: 2005  
 Funded amount: \$5,000
- 47) PI (**Wang**)  
 Title: Shoreline and Bathymetry Study at Withlacoochee River, Florida  
 Agency: Southwest Florida Water Management District  
 Dates: 2005  
 Funded amount: \$27,879

- 48) PI (**Wang**)  
Title: Shoreline Study for Evaluating Storm Effect on Pinellas County Gulf Beaches  
Agency: Pinellas County, Florida  
Dates: 2004-2007  
Funded amount: \$48,237
- 49) PI (**Wang**)  
Title: Performance Monitoring of Upham Beach Nourishment during the First Six Months, Florida  
Agency: Pinellas County, Florida  
Dates: 2004  
Funded amount: \$58,577
- 50) PI (**Wang**)  
Title: Performance Monitoring of Pass-A-Grille Beach Nourishment, Florida  
Agency: Pinellas County, Florida  
Dates: 2004-2005  
Funded amount: \$11,218
- 51) PI (**Wang**)  
Title: Shoreline and Bathymetry Study at Peace River, Shell Creek, and Dona-Roberts Bay, Florida  
Agency: Southwest Florida Water Management District  
Dates: 2004-2005  
Funded amount: \$37,698
- 52) CO-PI (**Wang** and Davis)  
Title: Evaluating Storm Effect on Pinellas County Gulf Beaches  
Agency: Pinellas County, Florida  
Dates: 2003-2008  
Funded amount: \$26,800
- 53) PI (**Wang**)  
Title: A Field Study on Sediment Budget and Inlet Processes at Blind Pass, Florida  
Agency: U.S. Army Engineer Research and Development Center  
Dates: 2002-2004  
Funded amount: \$71,800
- 54) PI (**Wang**)  
Title: Laboratory Study on Longshore Sediment Transport Processes at the Large-scale Sediment Transport Facility (LSTF)  
Agency: U.S. Army Engineer Research and Development Center  
Dates: 2001-2004  
Funded amount: \$184,000

- 55) PI (**Wang**)  
Title: A Collaborative Study on Hydrodynamics and Sediment Processes at a Laboratory Idealized Tidal Inlet  
Agency: U.S. Army Engineer Research and Development Center  
Dates: 2002-2003  
Funded amount: \$29,000
- 56) PI (**Wang**)  
Title: Beach Dynamics and Shoreline Management Study for Treasure Island, Pinellas County, Florida  
Agency: Pinellas County, Florida  
Dates: 2003-2004  
Funded amount: \$9,800
- 57) PI (**Wang**)  
Title: Investigation of Beach Erosion Processes at Upham Beach, Pinellas County, Florida  
Agency: Pinellas County, Florida  
Dates: 2003-2004  
Funded amount: \$5,500
- 58) PI (**Wang**)  
Title: Shoreline and Bathymetry Study at Charlotte Harbor, Florida  
Agency: Southwest Florida Water Management District  
Dates: 2003-2004  
Funded amount: \$38,900
- 59) CO-PI (Davis and **Wang**)  
Title: Historical Investigation of the Dynamics of Big Sarasota Pass, Florida  
Agency: Sarasota County, Florida  
Dates: 2003-2004  
Funded amount: \$21,900
- 60) PI (**Wang**)  
Title: Beach Dynamics and Sediment Budget for Treasure Island, Pinellas County, Florida  
Agency: Pinellas County, Florida  
Dates: 1998-2003  
Funded amount: \$10,000
- 61) PI (**Wang, Stone, and Rouse**)  
Title: Study of Longshore Sediment Transport Using the New Large-Scale Laboratory Facility  
Agency: Louisiana Sea Grant College Program  
Dates: 2000-2002  
Funded amount: \$124,000

62) PI (**Wang**)

Title: Laboratory Study on Groin Notching

Agency: U.S. Army Engineer Research and Development Center

Dates: 1999-2002

Funded amount: \$20,000

63) Co-PI (Stone (PI) and **Wang**)

Title: Supplemental Beach, Nearshore, and Wave-Current Monitoring due to Unanticipated Coastal Response

Agency: Louisiana Department of Natural Resources

Dates: 2000 - 2001

64) Co-PI (Stone (PI) and **Wang**)

Title: A Continuous Monitoring Shallow Water Hydrodynamic and Meteorological Station Designed for National Park Service

Agency: National Park Service

Dates: 1997 – 2000