

## ANASTASIA PILIOURAS

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### EDUCATION

- 2011-Present PhD Candidate**, Jackson School of Geosciences, University of Texas at Austin  
Thesis title: Ecogeomorphology of river deltas: Effects of vegetation on sediment transport and morphodynamics  
Advisor: Wonsuck Kim
- 2011 B.A. in Earth Science – Geology**, University of Pennsylvania  
Thesis title: The Effect of Potential Vorticity on Delta Channel Morphodynamics: Examining Elongating versus Bifurcating Behavior  
Advisors: Doug Jerolmack, Federico Falcini

### RESEARCH

- 2013-Present Determining controls on sedimentation rates on the Wax Lake Delta**  
Wax Lake Delta, Louisiana  
Advisor: Wonsuck Kim
- 2013-Present Basin depth control on the autogenic time scale of deltas**  
Morphodynamics Laboratory, Sediment Transport and Earth-surface Processes (STEP) Basin, University of Texas at Austin  
Led by Brandee Carlson; Advisor: Wonsuck Kim
- 2012-Present Energy of River Deltas**  
Summer School on Biogeodynamics and Earth System Sciences, Istituto Veneto di Scienze, Lettere, ed Arti, Venice, Italy  
Collaborator: Axel Kleidon (Max Planck Institute for Biogeochemistry, Jena, Germany)
- 2011-Present Effects of vegetation on sediment transport and delta morphodynamics**  
Morphodynamics Laboratory, Sediment Transport and Earth-surface Processes (STEP) Basin, University of Texas at Austin  
Advisor: Wonsuck Kim
- 2011-2013 Variability in preserved topography of linear dunes on a salt substrate**  
University of Texas at Austin  
Collaborators: Wonsuck Kim, David Mohrig, Gary Kocurek
- 2009-2013 Effects of potential vorticity on sediment transport and deposition at river mouths**  
Sediment Dynamics Laboratory, University of Pennsylvania  
Advisors/Collaborators: Doug Jerolmack, Federico Falcini
- 2010 Sediment Concentration and Nitrate Loss on Wax Lake Delta, Louisiana**  
Research Experience for Undergraduates, National Center for Earth-surface Dynamics  
Advisors: Azure Bevington, Robert Twilley
- 2009 Effects of Sea Level Rise on Barrier Beaches – Quantifying Barrier Overwash**  
Department of Geology and Geophysics, Woods Hole Oceanographic Institution  
Advisors: Andrew Ashton, Jeff Donnelly

### TEACHING AND ADVISING EXPERIENCE

- Fall 2013 Mentor**, GeoForce program, University of Texas at Austin  
Co-mentored a student who was a graduate of the GeoForce program – a program designed to introduce mostly minority students to geology, science, and college in general. Met with a student once a week to help with adjusting to college and determining their goals.

- Fall 2013**      **Teaching Assistant**, University of Texas at Austin  
GEO303: Introduction to Geology  
Taught 3 lab sections, each of 20 students, once a week on various introductory topics.
- 2012-present** **Graduate Mentor**, University of Texas at Austin  
Advised an undergraduate student conducting research for her honors thesis. Worked in the laboratory, gave input on data analysis, interpreting results, and writing.
- Spring 2011** **Tutor**, University of Pennsylvania  
Geol 125: Earth and Life Through Time – 3 students  
Geol 305: Earth-surface Processes – 1 student

### **AWARDS AND HONORS**

- 2013**            **Honorable Mention**  
National Science Foundation Graduate Research Fellowship Program
- 2013**            **ExxonMobil Geoscience Grant**  
ExxonMobil
- 2012**            **Award for Excellence in Research**  
Morphodynamics and Quantitative Stratigraphy Group, Jackson School of Geosciences
- 2011-2012**    **Endowed Graduate Fellowship**  
Jackson School of Geosciences, University of Texas at Austin
- 2011**            **Magna Cum Laude** with distinction in Earth Sciences  
University of Pennsylvania
- 2011**            **Henry Darwin Rogers Award for Excellence in Geology**  
Department of Earth and Environmental Science, University of Pennsylvania
- 2009-2011**    **Dean's List**  
University of Pennsylvania

### **PUBLICATIONS**

- In review**      **Piliouras, A.**, Kim, W., Kocurek, G., Mohrig, D., Kopp, J. (*in review*). Sand on salt: Controls on dune subsidence and determining salt substrate thickness. *Lithosphere*.
- Accepted**      Falcini, F., **Piliouras, A.**, Guerin, A., Jerolmack, D.J., Rowland, J., Paola, C. (*accepted*). Hydrodynamic and suspended sediment transport controls on river mouth morphology. *Journal of Geophysical Research – Earth Surface*.

### **CONFERENCE ABSTRACTS**

- 2013**            Carlson, B., Kim, W., **Piliouras, A.** (submitted). Basin depth control on the autogenic timescale of fluviodeltaic systems. 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013**            **Piliouras, A.**, Kim, W., Carlson, B. (submitted). Building a delta: Interactions between water, sediment, and vegetation in an experimental system. 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- 2013**            **Piliouras A.**, Kim, W., Carlson, B. (2013). Effects of vegetation on river delta morphodynamics and shoreline variability. International Workshop on Stratodynamics, Nagasaki, Japan, 28-30 August.
- 2013**            **Piliouras A.**, Kim, W., Carlson, B. (2013). Effects of riparian vegetation on river delta morphodynamics and shoreline variability. The 8<sup>th</sup> Symposium on River, Coastal, and Estuarine Morphodynamics, Santander, Spain, 9-13 June.
- 2012**            **Piliouras, A.**, Kim, W., Kocurek, G., Mohrig, D., Kopp, J. (2012). Examining variability in preserved topography of linear dunes on a salt substrate, Abstract EP41B-0785 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.

- 2011** **Piliouras, A.**, Falcini, F., Masteller, C., Jerolmack, D.J. (2011). Effects of potential vorticity on sediment transport and deposition at river mouths, Abstract EP33A-0909 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- 2011** Falcini, F., **Piliouras, A.**, Jerolmack, D.J., Rowland, J.C., Paola, C. (2011). Hydrodynamic and suspended sediment transport controls on river mouth morphology, Abstract EP52B-02 presented at 2011 Fall meeting, AGU, San Francisco, Calif., 5-9 Dec.
- 2010** Guerin, A., Falcini, F., Jerolmack, D.J., **Piliouras, A.**, Paola, C. (2010). Hydrodynamic and suspended sediment transport controls on river mouth morphology, Abstract EP51E-0592, presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2009** Ashton, A.D., Carruthers, E., **Piliouras, A.**, Taylor, H. (2009). Overwash controls coastal barrier response to sea-level rise. *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract EP31C-07

### **ACTIVITIES**

- 2013-present** **Community Development Coordinator**, Geoscience Leadership Organization for Women (GLOW)  
Duties: Plan events, maintain GLOW websites, enhance our presence in the Jackson School, UT, and geoscience communities, develop relationships between undergraduates, graduates, and faculty in the Jackson School.
- 2013-present** **Secretary**, Graduate Student Executive Committee  
Duties: Attend meetings and keep notes on activities, committees, and future planning.