

Hima Hassenruck-Gudipati

Curriculum Vitae

Jackson School of Geosciences
The University of Texas at Austin
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RESEARCH INTERESTS

Geomorphology of fluvial landscapes: Sediment transport in low sloping environments; Mechanism of natural levee building; Role of sea level on sediment transport and delta morphology; Deposition of organic matter on floodplains; Role of floodplains in recording extreme events.

EDUCATION

The University of Texas at Austin 2015 – 2020 (expected)
PhD Candidate, Geology

California Institute of Technology 2010 – 2014
Bachelor of Science, Mechanical Engineering
Geology and Planetary Science Minor

PROFESSIONAL SERVICE AND EXPERIENCES

Student-Faculty Liaison, Jackson School of Geosciences September 2016 – present
Lab Researcher: Dynamics in Low-Sloping River Deltas, June 2013 – June 2014
California Institute of Technology
Research Fellow: Percussive Scoop Sampling in Extreme Terrain June 2012 – September 2012
California Institute of Technology

HONORS AND AWARDS

NSF Graduate Research Fellowship August 2015 – present
Jackson School of Geoscience Recruiting Fellowship August 2015 – August 2016
Thomas J. Watson Fellowship July 2014 – June 2015
David E. Lumley Young Scientist Scholar October 2013
American Geophysical Union
Dr. George R. Rossman SURF Fellow June 2013 – September 2013
California Institute of Technology
Mary P. and Dean C. Daily SURF Fellow June 2012 – September 2012
California Institute of Technology

RESEARCH GRANTS

- Robert K. Fahnestock Award April 2017
Council of the Geological Society of America
\$1929
- Off Campus Research Funding February 2017
Jackson School of Geoscience
\$750

PROFESSIONAL ORGANIZATIONS

- The Geological Society of America January 2016 - present
American Geological Union July 2013 - present

PUBLICATIONS

2. Ganti, V., Chadwick, A.J., **Hassenruck-Gudipati, H.J.**, Lamb, M.P., 2016, Avulsion cycles and their stratigraphic signature on an experimental backwater-controlled delta, *Journal of Geophysical Research: Earth Surface*, 121, 1651–1675, doi:10.1002/2016JF003915.
1. Ganti, V., Chadwick, A.J., **Hassenruck-Gudipati, H.J.**, Fuller, B.M., Lamb, M.P., 2016, Experimental river delta size set by multiple floods and backwater hydrodynamics, *Science Advances*, 2, no. 5, e1501768, doi:10.1126/sciadv.1501768.

TEACHING EXPERIENCE

- Guest Lecture: Morphodynamics March 2017
The University of Texas at Austin
- Teaching Assistant Ge11b: Earth and the Biosphere Winter Term 2014
California Institute of Technology
- Teaching Assistant Biology 1: Principles of Biology Spring Term 2014, 2012
California Institute of Technology

MENTORING EXPERIENCE

- Mentor for Thaddeus Ellis, The University of Texas at Austin Spring 2016 – Summer 2017

SELECTED PRESENTATIONS

- Hassenruck-Gudipati, H.J., Mohrig, D., Passalacqua, P., Mason, J., (2016), Time-Lapse Lidar Characterization of Fluvial Levees with Implications to Levee Growth Controls, Abstract EP13B-1034 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- Chadwick, A.J., Lamb, M.P., Ganti, V., **Hassenruck-Gudipati, H.J.**, (2015), The Role of Backwater Hydraulics in Mediating Avulsion Location, Channel Migration Rate, and Delta Shoreline Rugosity, Abstract EP14A-03 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.

- Chen, C., Castellort, S., Foreman, B., **Hassenruck-Gudipati, H. J.** (2015, April). Fluvial system response to abrupt climate change: sedimentary record example of the Paleocene-Eocene Thermal Maximum (PETM) in the South-Pyrenean foreland basin, Spain. In EGU General Assembly Conference Abstracts (Vol. 17, p. 1143).
- Ganti, V., **Hassenruck-Gudipati, H.J.**, Chadwick, A.J., Lamb, M.P., (2014), Mechanics of Backwater-Mediated Avulsions on River Deltas, Abstract EP43D-05 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- Hassenruck-Gudipati, H.J., Ganti, V., Fuller, B., Lamb, M.P., (2013), Experimental Investigation of the Interplay between Backwater Hydrodynamics and Delta Evolution, Abstract EP31A-0827 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- Ganti, V., Chu, Z., **Hassenruck-Gudipati, H. J.**, Lamb, M. P. (2013). Slope-mediated and Deltaic Avulsions on the Huanghe River, China, presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.