

Saleh Satti

Dept. of Earth and Planetary Sciences
Johns Hopkins University
Baltimore, MD 21218

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Education:

THE JOHNS HOPKINS UNIVERSITY PhD Candidate, Earth and Planetary Sciences	Baltimore, MD	2012 - Present
THE JOHNS HOPKINS UNIVERSITY MA, Masters of Arts, Earth and Planetary Sciences	Baltimore, MD	2013
TEXAS A&M UNIVERSITY MEng. Masters of Engineering-Civil Engineering	College Station, TX	2007
THE COLLEGE OF WOOSTER Bachelor of Arts-Physics Minor-Political Science	Wooster, OH	2005

Relevant Work Experience:

The Johns Hopkins University, <i>Research Assistant</i>	Baltimore, MD	2012 - Present
The Johns Hopkins University, <i>Environment, Energy, Sustainability and Health Institute Fellow</i> <ul style="list-style-type: none">Research: The future of water, food and energy in Sudan	Baltimore, MD	2013 - 2014
The Johns Hopkins University, <i>Teaching Assistant</i> <ul style="list-style-type: none">Climate Change: Science and Policy	Baltimore, MD	2013
Water Research Institute, <i>Researcher</i> <ul style="list-style-type: none">Performed climactic and hydrologic modeling for the Pru Basin and the Ankobrah Basin of the Western region of Ghana	Accra, Ghana	April 2010-March 2011
Dodson & Associates Inc., <i>Civil Engineer/Hydrologist</i> <ul style="list-style-type: none">Conducted water resources analysis by modeling existing and proposed channels and modificationsDesigned and analyzed existing storm water collection systemsDeveloped drainage design reports, and conducted analysis, comparisons and design recommendations	Houston, TX	January 2008-December 2009
Dannenbaum Engineering, <i>Engineering Intern, Hydrology Department</i> <ul style="list-style-type: none">Worked with hydrology department on projects involving Geographic Information Systems, as well as hydrology and hydraulics	Houston, TX	May 2007-August 2007
Nuclear Policy Research Institute, <i>Intern</i> <ul style="list-style-type: none">Organized symposiums on anti-nuclear political and environmental policy	Washington D.C.	January 2006-June 2006

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Journals

Satti, S., Zaitchik, B., & Siddiqui, S. (2015). The question of Sudan: a hydro-economic optimization model for the Sudanese Blue Nile. *Hydrology and Earth System Sciences*, 19(5), 2275-2293.

Project Experience:

Sam Houston Tollway East Drainage Design

- Served as project engineer for the drainage analysis and design recommendations for drainage system along the Sam Houston Tollway.
- Performed a hydrologic and one-dimensional unsteady hydraulic analysis of the existing drainage system.
- Developed a report outlining the proposed mitigation and the impact analysis on the existing site.

Fort Bend County Drainage Design Criteria Manual

- Served as project engineer in the development of the hydrologic and hydraulic design manual for Fort Bend County.
- Duties included reviewing criteria manuals for surrounding counties, researching potential alternative solutions, analyzing requests and comments from Fort Bend County.

City of Portland Drainage Design Analysis

- Served as project engineer in the development of a regional two-dimensional unsteady model of a project area within the city of Portland.
- Duties included recognizing areas of flooding, recommending improvement scenarios, and developing a report detailing improvements and impacts analysis.

Buffalo Bend Wetlands Design

- Served as project engineer in the development of a hydrologic and hydraulic design of functioning wetlands.
- Findings from this project were submitted, and presented at the October 2009 Texas ASCE meeting.

Engineering Computer Skills and Software:

HEC-RAS: open channel hydraulic modeling
HEC-HMS: hydrologic modeling
WinStorm: hydrologic modeling for sewer systems
GIS: interface that incorporates maps and modeling
EPANet: hydraulic systems for water supply
XPSWMM: unsteady modeling for storm water with 2 dimensional capabilities
SWMM5: hydraulic modeling for storm watering
HEC-1: hydrology modeling
HEC-2: hydraulic modeling
SWAT: Soil and Water Assessment Tool. ArcView extension that models run-off.
R Statistical Tool
ERDAS Imaging

Languages and Certifications:

English, Arabic, French
Texas EIT Certification No. 41664

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Honors and Associations:

Texas Floodplain Managers Association	Member
Engineers Without Borders	Member
Wilson Compton Sr. Scholarship	2002-2005
Mabel Gillespie Scholarship	2002-2005
J&M Johnston Scholarship	2002-2005
Women's Board Academic Scholarship	2005
Joyce and Don Dunlap Scholarship	2007
Senior Independent Study Thesis	Honors