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<b>ROLES:</b>	Undergraduate Student Dept. of Geomatics Engineering and Land Management, University of the West Indies, St. Augustine, Trinidad
<b>DISCIPLINES:</b>	Geomatics Engineering (Surveying; GIS)
<b>KEYWORDS:</b>	Surveying, GIS, sea level rise, socioeconomic impact



### RESEARCH INTERESTS:

Climate change is the change in the average weather over an extensive time period. One result of Climate change can be a rise in sea levels that can be caused from the melting of the ice caps and/or thermal expansion of seas and oceans due to rising temperatures. Sea level rise due to climate change has been predicted by many entities including the Intergovernmental Panel on Climate Change (IPCC) among others. At risk are many coastal communities worldwide, and to know the danger posed by predicted sea level rise to these communities is to arm them with information that can contribute to the development of appropriate mitigation and adaptation strategies.

Grande Riviere, located in the North of Trinidad, is a coastal community where the local economy depends mainly on tourism and agriculture. Environmentally and economically, the annual nesting of the leatherback turtles and presence of the native Pawi provide attractions for tourists that add to the income of the community. Any significant rise in sea level could have adverse impacts on the community's social and economic wellbeing.

Sade, as part of the ICURA project entitled Managing Adaptation to Environmental Change in Coastal Communities: Canada and the Caribbean and in fulfilment of her academic obligation to produce a senior research report, used GIS and surveying techniques to create a sea level rise socioeconomic impact map of Grande Riviere based on the predictions of IPCC and other research entities. Her work was supervised by Drs. Michael Sutherland and David Neale.

### BIOGRAPHY:

Sade K. Grant, a national of Trinidad and Tobago, is a graduate of the University of the West Indies and holds a Bachelor of Science degree in Geomatics. Ms. Grant has field experience in land and engineering surveying and her past employment includes reputable firms such as Carillion Construction Limited and Lenny and Sasha Surveying Services. Ms. Grant intends to advance her career in the field of engineering with a specialization in Geographical Information Systems (GIS), and will be pursuing a graduate degree in Civil and Environmental Engineering. Ultimately, she hopes to work in the area of urban community development and planning and aspires to be a Quantity Surveyor.

Ms. Grant has received awards for her teamwork and leadership abilities, and has been recognized for her high level of responsibility while serving as role model for her classmates in the position of school prefect. Her interests include kick boxing and the arts, and she also enjoys singing, dancing, and cooking. She is warm, friendly, and free-spirited and enjoys traveling. She is the youngest of three children and loves to spend time with family and friends.

Sade reports her involvement with the ICURA Project entitled Managing Adaptation to Environmental Change in Coastal Communities: Canada and the Caribbean as follows: *"The project offered a myriad of benefits. As a resident of a small island developing state (SIDS), the research has exposed me to the potential socio-economic impact of climate change on coastal communities and the effect this has on our daily lives. It has also heightened my awareness of the impending threats that climate change may have on my homeland, Trinidad and Tobago, and has motivated me to conduct further research to obtain mitigating strategies. Conducting research for this project materialized a topic worthy of exploration for my final year project, thus facilitating the opportunity for more in-depth probing into the associated challenges. It also provided comfortable accommodations on location from which to perform data collection. Finally, the project served to enhance my research and report writing skills, and highlighted my teamwork, collaborative and interpersonal strengths."*