



Research Alliance in Math and Science

http://www.csm.ornl.gov/Internships/RAMS.html

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Summary

The Research Alliance in Math and Science (RAMS) program is carried out through the Computing and Computational Sciences Directorate at the Oak Ridge National Laboratory (ORNL) for the Mathematical, Information, and Computational Sciences Division of the U. S. Department of Energy's Office of Advanced Scientific Computing Research. The RAMS program continues to provide unique, hands-on educational experience through innovative approaches to underrepresented students majoring in mathematics, computer science, engineering technology, and the computational sciences.

Christopher Fuller, a senior from Winston Salem State University participated in the American Geophysical Union (AGU) Fall Meeting San Francisco, California, December 11-15, 2007 to present research conducted under sponsorship of the RAMS program.

Mr. Fuller was first author on a paper entitled "Ouantification and visualization of human impacts of anticipated precipitation extremes in South America," which was presented in the AGU session on Catastrophic Risks from Natural Perils. The research study analyzed precipitation extremes data of South America, which granted beginning access into observation and understanding of human impacts caused by anticipated extreme events.

The student and two of his mentors were asked to present a press conference on December 14, 2007, on their work. The *ScienceNow* reporters were from the prestigious *Science* magazine. The research study analyzed precipitation extremes data

of South America, which granted beginning access into observation and understanding of human impacts caused by anticipated extreme events.



Christopher Fuller explains the human risk factors displayed on his research poster.

Dr. Auroop Ganguly, Geographic Information Science and Technology Group in the Computational Sciences and Engineering Division served as Mr. Fuller's mentor during the summer of 2006 and

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accompanied Mr. Fuller to the press conference.

Additional information on the AGU and the Fall meeting can be found at http://www.agu.org/meetings/fm06/.

Additional information on the 2006 RAMS program, student projects, and photographs from tours and events can be accessed at: http://www.csm.ornl.gov/Internships/RAMS _06.

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