

Samaiyah I. Farid

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Current Position:

Graduate Student, University of New Hampshire Department of Physics
Current Research: Solar X-ray Bright Points

Education

Master of Science

Space Science, Alabama A&M University, Normal, Al 35762

Graduation Date: May 2007

G.P.A. 3.7

Thesis Title "Examination of polar plumes observed during March 29, 2006 Total Solar Eclipse"

Research involved obtaining and analyzing EIT images, deriving intensity profiles, and assisting in developing a one dimensional hydrodynamic model using IDL.

Advisors: Amy Winebarger, Hakeem Oluseyi

Bachelor of Science

Physics and Mathematics with Space Science minor, Alabama A&M University, Normal, Al 35762

Graduated Cum Laude, December 2004

Advanced Diploma, Abbeville High School, Abbeville, Alabama May 1998

Research Experience

Astrophysicist: Harvard-Smithsonian Center for Astrophysics Cambridge, Ma 02143

Research: X-ray Bright Points (Statistical and Thermal Properties) 05/2007-01/2009

A member of the HINODE/XRT team.

Previous Research Topics

"Examination of Bartels Cycle Using Superimposed Epoch Analysis"

Alabama A&M Department of Physics, 2005 Advisors: W. Lyatsky, A. Tan

"Analysis of Geomagnetic and Solar Wind Parameters"

Alabama A&M Department of Physics, 2005 Advisors: W. Lyatsky, A. Tan

"Ability of LLNL Climate Model to Determine Precipitation and Temperature over Western United States"

Lawrence Livermore National Laboratory, 2005 Advisor: B. Godvinsky

"Theoretical Methods: Linear Coupled Higher Order Differential Equations"

Alabama A&M Department of Mathematics, 2004 Advisors: M. Edwards, M. Elshamy

Comparative Analysis of LLNL High Resolution Climate Models"

Lawrence Livermore National Laboratory, 2003 Advisor: B. Godvinsky

“Feasibility of Using Cd-109 to Test Charge Transfer Efficiency of SNAP (SuperNova Acceleration Probe) CCD’s”

Lawrence Berkeley National Laboratory, 2002 Advisor: H. Oluseyi

“Comparative Analysis of the Global and Local Climate Fluctuations When Carbon Dioxide is increased by Fifty Percent”

Lawrence Livermore National Laboratory, 2002 Advisor: B. Godvinsomy

“Determining Charge Parity Violation in Virginia Tech Analysis Code”

Virginia Polytechnic and State University, 2001 Advisor: L. Piilonen

Journal Publications

“Cumulative Distribution of Lengths of Rivers” A.Tan, F. Mulu, S. Farid
The Mathematics Education Volume XXXVIII No. 4, December 2004

Cumulative Distribution of Object Size in the Solar System” A. Tan, S. Farid, F. Mulu
The Mathematics Education Volume XXXIX, No. 2, June 2005.

“SNAP Science & Technology,” PNSBP 30, Oluseyi, H. M., S.Farid, et al. 2005

Presented Research

Differential Emission Measure of Xray Bright Points Observed Using Hinode’s Xray Telescope (XRT) S.Farid,S.Saar.E.Deluca,L.Golub,S.Saar,M.Weber. Poster Presented American Geophysical Union. December 2007

“Analysis of Polar Plumes Observed during March 29 ,2006 Total Solar Eclipse”
S.Farid, A.Winebarger, H.Oluseyi, A.Sterling, A.Tan Presented: National Society of Black and Hispanic Physicists 2007

“Examination of Bartels Cycle Using Superposed Epoch Analysis” S.Farid, F.Mulu, W.Lyatsky, A.Tan Presented: National Society of Black and Hispanic Physicists 2006

“Exact Solution of the Density of Molecular Hydrogen in Jovian Atmosphere”
S.Farid, W.Sheng, R.B.Lal, Presented: National Society of Black Physicists 2004

“Cumulative Distributions of Areas of Continents and Islands and Their Multi-Fractal Characteristics” A. Tan, S. Farid, W. Sheng, R. Lal
Presented: National Society of Black Physicists, 2003

“Solutions of Coupled Linear Non Homogenous Differential Equations” S. Farid, M. Edwards, M. Elshamy Presented: Alliance for the Promotion of Minorities in Mathematical Sciences, 2003

Extracurricular Training

- Chosen to participate in two-week workshop at Lawrence Livermore National Lab, Livermore, Ca. entitled “Minority University Education and Research Partnership Initiative in Space Science” Principal Investigator: Peter Beiersdorfer We performed data analysis and experiments in atomic physics at the Electron Beam Ion Trap (EBIT) facility. Summer 2003
- Center for Integrated Space Weather Modeling (CISM) Summer School Participant Boston University, 2005
- March 2006 Total Solar Eclipse, Cape Coast, Ghana. Part of a NASA/UAH Research team that recorded coronal images during the eclipse as part of a polar plume study.

Related Achievements

- Leader in organizing and implementing science outreach programs in local high schools through local chapter of the Society of Physics Students.
- Participant in NSF and Columbia University education outreach program, where I traveled to South Africa’s Guatang Province, developed and presented physics demonstrations to high school students. Summer 2004
- Teaching assistant. Responsible for 2nd grade class of 15 providing one-on-one reading, mathematics, and science instruction. Fall 2004
- Volunteer after school tutor for 4th and 5th graders. Providing instruction in math, science, reading, and writing.

Honors and Affiliations

Society of Physics Students: Treasurer 2005, President 2003, Miss Society of Physics Students and Vice President 2002.

Graduate Student Council, Secretary 2006-2007

Dean’s List, 2002, 2003