Thomas Martin

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EDUCATION

University of California Los Angeles, Biomedical Physics, Ph.D. September 2012 - Present

Utah State University (USU), Physics, B.S. August 2006 - May 2012

PROFESSIONAL EXPERIENCE

Research Assistant September 2013 - Present

Internship at Toshiba Medical Research Institute USA June 2013 – September 2013

GRADUATE RESEARCH

Dynamic Golden Angle Radial Acquisition and Image Reconstruction May 2013 - Present

My current work is focused on improving imaging speed for fMRI & DCE MRI scans using golden angle radial acquisition and k-space image weighted (KWIC) reconstruction. Also I am working on image reconstruction to reduce dose for CT perfusion imaging.

UNDERGRADUATE RESEARCH May 2010 – August 2012

Atmospheric Gravity Wave Analysis

At Utah State University, I worked with Dr. Mike Taylor studying the behavior of mesospheric weather called Atmospheric Gravity Waves over Antartica.

TEACHING EXPERIENCE

Recitation Leader August 2011 – May 2012

Recitation Leader for over 200 students for Physics Life Sciences I & II

Laboratory Teacher's Assistant August 2010 – May 2011

Assisted over 50 students in basic understanding of physics lab experiments

Supplemental Instructor January 2010 - May 2010

Tutored 15 students in Physics by Hands-on Exploration

PRESENTATIONS AT PROFESSIONAL MEETINGS

Presentations

Martin, T., J.R. Pugmire, M.J. Taylor, K. Nielsen, P.-D. Pautet, and M.J. Jarvis, "Investigating short-period gravity wave characteristics over Rothera, Antarctica", PASI School, San Juan, Argentina Oct. 5th, 2010, oral presentation.

Posters

Martin, T., M.J. Taylor, K. Nielsen, P.-D. Pautet, and M.J. Jarvis, "Comparison of large- and small-scale gravity waves over Halley, Antarctica, and Petrolina, Brazil", CEDAR conference, Santa Fe, NM, June, 2011, poster presentation.

Martin, T., J.R. Pugmire, M.J. Taylor, K. Nielsen, P.-D. Pautet, and M.J. Jarvis, "Investigating short-period gravity wave characteristics over Rothera, Antarctica", APS 4-Courners Meeting, Ogden, UT, Oct. 15th, 2010, poster presentation.

Martin, T., J.R. Pugmire, M.J. Taylor, K. Nielsen, P.-D. Pautet, and M.J. Jarvis, "Initial investigation of short-period gravity wave characteristics over Rothera, Antarctica", CEDAR conference, Boulder City, CO, June, 2010, poster presentation.

Martin, T., S. Jensen, S. Larsen, and D. Peak, "Mapping the Milky Way Galaxy in the Hydrogen Spectrum", Society of Physics Students Zone Meeting, Idaho, April, 2010, poster presentation.

SKILLS

Computer skills: MatLab, C++, Excel, Power Point, Origin

HONORS & AWARDS

Presidential Academic Scholarship

- Highest awarded scholarship to incoming Freshman, for high academic achievements

James E. Brown Scholarship

- Awarded for high academic standards, researching in an atmospheric or space science, and desiring to further education past Bachelor's degree

Dean's list for all 8 semesters at USU

- Award given for good academic standing each semester and for a GPA above 3.5

Physics Honor Society Sigma Pi Sigma

- Society for out-going students making an impact in the physics department and high academic achievements

Chair Head, Research Committee of USU's Society of Physics Students (SPS) Club

- Leader of SPS Research Committee; efforts culminated in receipt of grant to build a radio telescope to study the hydrogen emission line of the Milky Way and other extraterrestrial activity

EXTRACURRICULAR

Boy Scouts of America Leader — November 2012 – Present

Head of Research Committee in Society of Physics Students — September 2009 – April 2011

Served 2-year mission for Church of Jesus Christ of Latter-Day Saints — Aug 2007 – Aug 2009
Was a leader over 12 missionaries, and trained 5 missionaries