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Prairie View, TX 77446

Position Title: Adjunct Assistant Professor

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Education:	Degree and Area of Study	Institution Name	Degree Date
	Ph.D in physics	Kent State University	May, 1997
	Master of Science in CS	Kent State University	May, 2000
	B.S. in Physics	Beijing Polytechnic University	Jan, 1982

Teaching Experience	Position Title	Institution Name	Position Dates (Beginning and End)
	Adjunct Assistant professor	Prairie View A&M University	Jan 2013-present
	Research Scientist	Prairie View A&M University	Feb 2010-2012

Professional Publications:

High –Spin Stretched States Excited in (n, p) Reactions at 280 MeV and 300 MeV, J.W. Watson, **X. Hu**, L. Garcia, R. Henderson, R. Helmer, B. Anderson, C. Miller, S. Yen, etc Proceedings of the International Nuclear Physics Conference, Germany, 1992.

The (n, p) Reaction on ¹⁶O and ³⁰Si at 280 MeV, **X. Hu**, J. Watson, B. Anderson, L. Garcia, R. Henderson, R. Helmer, C. Miller, S. Yen, Bull. Am. Phys. Soc.38, 982, 1993.

The Hall C Time of Flight Hodoscopes Detector, 8th Proceedings of HUGS at CEBAF, **X. Hu**, Virginia, 1993.

Load balancing in a Quantum Monte Carlo Method, Paul Farrell, **X. Hu**, etc, Proceedings of Midwest Workshop for Parallel Processing (**MWPP**), August, 1999.

Energy Levels of Light Nuclei, A=8, J. Kelley, J. Godwin, **X. Hu**, J Purcell, C. Sheu, D. Tilley, H. Weller, etc, TUNL/Duke, 2002.

Using **MCNP** to simulate 6Li-Glass Neutron Detector, **X. Hu**, R. Prior, H. Weller, TUNL/Duke, 2002.

Results from the Martian Radiation Environment Experiment **MARIE**, C. Zeitlin, F. Cucinotta, P. Saganti, **X. Hu**, etc, 8th Workshop on Radiation Monitoring for the International Space Station, LBNL, Berkeley, Sept. 2003.

Physics of the Isotopic Dependence of Galactic Cosmic Ray Fluence behind Shielding, F. Cucinotta, P. Saganti, **X. Hu**, M-Y. Kim, J. Wilson, C. Zeitlin, etc, **NASA/TP-2003-210792**, 2003.

MARIE Measurements and Model Predictions of Solar Modulation of Galactic Cosmic Rays at Mars, P. Saganti, F. Cucinotta, C. Zeitlin, **X. Hu**, etc, 28th International Cosmic Ray Conference, Japan, 2003.

MARIE Measurements and Model Predictions of GCR Particle Flux at Mars, P. Saganti, F. Cucinotta, C. Zeitlin, **X. Hu**, etc, 12th International Congress on Radiation Research, Australia, 2003.

Application of QMSFRG Model to NSRL Transport Problems, **X. Hu**, F. Cucinotta, M-Y. Kim, J. A. Ponomarev, Wilson, A. Rusek, 15th Annual Space Radiation Investigators' Workshop, 2004.

MARIE Measurements and Model Predictions of Solar Modulation of Galactic Cosmic Rays at Mars, P. Saganti, F. Cucinotta, L. Pinsky, **X. Hu**, etc, 29th International Cosmic Ray Conference, 2005.

Physical Description of NSRL Target Room, **X. Hu** H. Nikjoo, M-Y. Kim, F. Cucinotta, 16th Annual Space Radiation Health Investigator's Workshop, 2005.

Effect of Shielding Materials from SPEs on the Lunar and Mars Surface, M-Y. Kim, **X. Hu**, F. Cucinotta, AIAA proceedings, 6653, 2005.

Induction of micronuclei in human fibroblasts across the Bragg curve of energetic ion, H. Wu, **X. Hu**, etc, *Radiation Research*, 166, 584-589, 2006.

Comparisons of integrated radiation transport models to micro-dosimetry data in spaceflight, F. Cucinotta, H. Nikjoo, M-Y. Kim, X. Hu, etc, 10th Neutron Dosimetry Symposium, 2006.

Isotopic dependence of GCR fluence behind shielding, F. Cucinotta, J. Wilson, P. Saganti, **X. Hu**, M. Kim, C. Zeitlin, etc. *Radiation Measurements*, Vol. 41, 1235-1249, 2006.

Bragg Peak Simulation by MCNPX and PHITS, **X. Hu**, S. K. Aghara, I. Sriprisan, 22nd Annual NASA Space Radiation Investigators' Workshop, 2011.

Monte Carlo Simulation of Neutron Flux on Lunar Surface, **X. Hu**, S.K. Aghara and J. Grice, 22nd Annual NASA Space Radiation Investigators' Workshop, 2011.

Assessment of Geometry Effects in Monte Carlo Simulations to Evaluate Neutron Albedo on the Lunar Surface, **X. Hu**, S.K. Aghara, 43th Lunar and Planetary Science Conference, 2012.

Monte Carlo transport GCR and SPE for Lunar Surface, **X. Hu**, S.K. Aghara, will submit to 23rd Annual NASA Space Radiation Investigators' Workshop, 2012.

Additional Trainings/Skills:

Transport computations using transport codes such as **HZETRN**, **MCNPX** and **PHITS** for space radiation health applications and for the environment inside the target room of NASA Space Radiation Laboratory (NSRL) at Brookhaven National Laboratory.

Post doctoral fellowship at Duke University/Triangle Universities Nuclear Lab. Performed (p, gamma) and (gamma, n) reaction experiments.

Ph.D. training in experimental nuclear physics. Performed (n, p) and (p, n) reaction experiments.

Prepared technical reports, proposals and manuscripts for journal publications. Gave presentations at scientific conferences.