



Research Interests

- Science Education
- Thermoelectric materials
- Superconductors

Hye Jung Kang, Ph.D.

7101 University Avenue ■ Texarkana, TX 75503 ■ 903.334.6670 ■ hkang@tamut.edu

Associate Professor of Physics; 2016 – Present
Texas A&M University-Texarkana

Recently Taught Courses

- College Physics I Lab – PHYS 1101
 - College Physics II Lab – PHYS 1102
 - College Physics I – PHYS 1301
 - College Physics II – PHYS 1302
 - Physical Science I – PHYS 1415
 - University Physics I Lab – PHYS 2125
 - University Physics II Lab – PHYS 2126
 - University Physics I – PHYS 2325
 - University Physics II – PHYS 2326
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Education

University of Tennessee; Knoxville, TN
PhD in Physics, 2005

Gyeongsang National University; Chinju, Korea
MS in Physics, 1995

Gyeongsang National University; Chinju, Korea
BS in Physics, 1993

Academic Experience

TEXAS A&M UNIVERSITY- TEXARKANA; Texarkana, TX
Associate Professor of Physics, 2016 to Present

Clemson University; Clemson, SC
Assistant Professor, 2008 to 2016

University of Maryland/NIST; Gaithersburg, MD
Research Associate, 2005 to 2008

Gyeongsang National University; Chinju, Korea
Physics & Physics Lab Instructor, 1995 to 1999

Significant Professional Publications

- H. J. Kang, "Modern Tesla Coil as a Multidisciplinary Example in STEM Teaching," American Journal of Educational Research 8, 383 (2020)
- W. Xie, D. A. Hitchcock, H. J. Kang*, J. He, X. Tang, M. Laver, and B. Hammouda, "The microstructure network and thermoelectric properties of bulk (Bi,Sb)₂Te₃," Applied Physics Letters 101, 113902 (2012)
- H. J. Kang, P. Dai, B. J. Campbell, P. J. Chupas, S. Rosenkranz, P. L. Lee, Q. Huang, S. Li, S. Komiyama, and Y. Ando, "Microscopic Annealing Process and Its Impact on Superconductivity in T'-Structure Electron-Doped Copper Oxides," Nature Materials, 6, 224-229 (2007)