

-
- Education**
- **Ph.D.** Physics, University of Texas at Austin, 2002.
 - **M.S.** Physics, Seoul National University, Korea, 1994.
 - **B.Sc.** Physics, Seoul National University, Korea, 1992.
- Experience**
- 2012-present**
- Associate Professor, Department of Physics and Astronomy, Seoul National University.
- 2008-2011**
- Assistant physicist, Condensed Matter Physics & Materials Science department, Brookhaven National Laboratory.
- 2006-2008**
- Visiting scientist, department of physics, LASSP, Cornell University & School of Physics and Astronomy, University of St. Andrews, Scotland.
- 2003-2006**
- Postdoctoral research associate, department of physics, LASSP, Cornell University.
- Publications**
- *High-Tc Superconductivity from an Atomic Point of View via Tunneling* J. H. Yoo and Jinho Lee *Curr. App. Phys.*, **17**, 847 (2017).
 - *Improved design for a low temperature scanning tunneling microscope with an in situ tip treatment stage* J. -J. Kim, S. H. Joo, K. S. Lee, J. H. Yoo, M. S. Park, J. S. Kwak and Jinho Lee and J. C. Davis *Rev. Sci. Instr.*, **88**, 043702 (2017).
 - *Detection of a Cooper-pair density wave in $Bi_2Sr_2CaCu_2O_{8+\delta}$* M. H. Hamidian, S. D. Edkins, S. H. Joo, A. Kostin, H. Eisaki, S. Uchida, M. J. Lawler, E.-A. Kim, A. P. Mackenzie, K. Fujita, Jinho Lee and J. C. Davis *Nature*, **532**, 343 (2016).
 - *Imaging Dirac-mass disorder from magnetic dopant atoms in the ferromagnetic topological insulator $Cr_x(Bi_{0.1}Sb_{0.9})_{2-x}Te_3$* I. Lee, C. K. Kim, Jinho Lee, S. J. L. Billinge, R. Zhong, J. A. Schneeloch, T. Liu, T. Valla, J. M. Tranquada, G. Gu, and J. C. Davis *PNAS*, **112**, 1316 (2015).
 - *Simultaneous Transitions in Cuprate Momentum-Space Topology and Electronic Symmetry Breaking* K. Fujita, C. K. Kim, I. Lee, Jinho Lee, M. H. Hamidian, I. A. Firmo, S. Mukhopadhyay, H. Eisaki, S. Uchida, M. J. Lawler, E. -A. Kim, and J. C. Davis *Science*, **344**, 612 (2014).
 - *Formation of heavy d-electron quasiparticles in $Sr_3Ru_2O_7$* M. P. Allan, A. Tamai, E. Rozbicki, M.H. Fischer, J. Voss, P. D. C. King, W. Meevasana, S. Thirupathaiah, E. Rienks, J. Fink, A. Tennant, R. S. Perry, J. F. Mercure, M. A. Wang, Jinho Lee, C. J. Fennie, E. -A. Kim, M. J. Lawler, K. M. Shen, A. P. Mackenzie, Z. -X. Shen, F. Baumberger *New Journal of Physics*, **15**, 063029 (2013).
 - *Nematic Electronic Structure in the Parent State of the Iron-Based Superconductor $Ca(Fe_{1-x}Co_x)_2As_2$* T. -M. Chuang, M. P. Allan, Jinho Lee, Yang Xie, Ni Ni, S. L. Bud'ko, G. Boebinger, P. C. Canfield and J. C. Davis *Science*, **327**, 181 (2010).
 - *Heavy d-electron quasiparticle interference and real-space electronic structure of $Sr_3Ru_2O_7$* Jinho Lee, M. P. Allan, M. A. Wang, J. Farrell, S.

-
- A. Grigera, F. Baumberger, J. C. Davis and A. P. Mackenzie *Nature Physics*, **5**, 800 (2009).
- *Bogoliubov angle and visualization of particle-hole mixture in superconductors* I. Grigorenko, K. Fujita, Jinho Lee, M. Wang, J. C. Davis, E. Eisaki, S. Uchida, and A. V. Balatsky *J. Phys. Chem. Solids*, **69**, 3000 (2008).
 - *How cooper pairs vanish approaching the Mott insulator in $Bi_2Sr_2CaCu_2O_{8+\delta}$* Y. Kohsaka, C. Taylor, P. Wahl, A. Schmidt, Jinhwan Lee, K. Fujita, J. W. Aldredge, K. McElroy, Jinho Lee, H. Eisaki, S. Uchida, D. -H. Lee and J. C. Davis *Nature*, **454**, 1072 (2008).
 - *Evolution of the electronic excitation spectrum with strongly diminishing hole-density in superconducting $Bi_2Sr_2CaCu_2O_{8+\delta}$* J. W. Aldredge, Jinho Lee, K. McElroy, M. Wang, K. Fujita, Y. Kohsaka, C. Taylor, H. Eisaki, S. Uchida, P. J. Hirschfeld and J. C. Davis *Nature Physics*, **4**, 319 (2008).
 - *Imaging the impact on cuprate superconductivity of varying the interatomic distances within individual crystal unit cells* J. A. Slezak, Jinho Lee, M. Wang, K. McElroy, K. Fujita, B. M. Andersen, P. J. Hirschfeld, H. Eisaki, S. Uchida, and J. C. Davis *PNAS*, **105**, 3203 (2008).
 - *The ground state of the pseudogap in cuprate superconductors* T. Valla, A. V. Fedorov, Jinho Lee, J. C. Davis, and G. D. Gu *Science*, **314**, 1914 (2006).
 - *Interplay of electron-lattice interactions and superconductivity in $Bi_2Sr_2CaCu_2O_{8+\delta}$* Jinho Lee, K. Fujita, K. McElroy, J. A. Slezak, M. Wang, Y. Aiura, H. Bando, M. Ishikado, T. Masui, J. -X. Zhu, A. V. Balatsky, H. Eisaki, S. Uchida, and J. C. Davis *Nature*, **442**, 546 (2006).
 - *Effects of pairing potential scattering on fourier-transformed inelastic tunnelling spectra of high- T_c cuprate superconductors with bosonic modes* J. -X. Zhu, K. McElroy, Jinho Lee, T. P. Devereaux, Q. Si, J. C. Davis, A. V. Balatsky *Phys. Rev. Lett.*, **97**, 177001 (2006).
 - *Fourier-transformed local density of states and tunnelling into a d-wave superconductor with bosonic modes* J. -X. Zhu, A. V. Balatsky, T. P. Devereaux, Q. Si, Jinho Lee, K. McElroy, and J. C. Davis *Phys. Rev. B* **73**, 014511 (2006).
 - *Atomic-scale sources and mechanism of the nanoscale electronic disorder in $Bi_2Sr_2CaCu_2O_{8+\delta}$* K. McElroy, Jinho Lee, J. A. Slezak, D. -H. Lee, H. Eisaki, S. Uchida, and J. C. Davis *Science* **309**, 1048 (2005).
 - “Wave-function imaging” studies of high- T_c superconductivity. J. A. Slezak, Jinho Lee and J. C. Davis *MRS Bulletin* **30**, No. 6 (2005).
 - *Spectroscopic imaging STM studies of high- T_c superconductivity* Jinho Lee, J. A. Slezak and J. C. Davis *JPCS* **66**, 1370 (2005).
 - *Coincidence of checkerboard charge order and antinodal state decoherence in strongly underdoped superconducting $Bi_2Sr_2CaCu_2O_{8+\delta}$* K. McElroy, D. -H. Lee, J. E. Hoffman, K. M. Lang, Jinho Lee, E. W. Hudson, H. Eisaki, S. Uchida, and J. C. Davis *Phys. Rev. Lett.* **94**, 197005 (2005).