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Curriculum Vitae

Current address

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Education

- Stanford University, Stanford, CA, USA
Research Advisor: Prof. Z.-X Shen, zxshen@stanford.edu
Ph.D. in Physics: Dec 2008
- Stanford University, Stanford, CA, USA
Research Advisor: Prof. Z.-X Shen, zxshen@stanford.edu
M.Sc. in Physics, August 2007
- University of California, Santa Barbara (UCSB), CA, USA (Highest honor)
Research Advisor: Prof. Guenter Ahlers, guenter@physics.ucsb.edu
B.Sc. in Physics, June 2002

Posdoctoral experience

University of St Andrews, St Andrews, UK, March 2009- Sept 2010
Research Supervisor: Assoc. Prof. Felix Baumberger, fb40@st-andrews.ac.uk
- Developing Laser-based Angle-resolved photoemission spectroscopy

Research interest

2009 – Present:

- Angle-resolved photoemission studies
- Bulk and surface electronic structure of transition metal oxides: $SrTiO_3$, $KTaO_3$, ZnO
- Photoemission study of diamondoid

2003 – 2008

- Angle-resolved photoemission studies of the doping-dependent effects in the single-layer high-Tc superconductors, $Bi_2Sr_2CuO_6$, and $HgBa_2Cu_2O_4$
- Angle-resolved photoemission studies of other cuprate superconductors and ruthenate ($Ca_{2-x}Na_xCuO_2Cl_2$, Sr_2RuO_4)

2000 – 2002:

- Study of Rayleigh-Benard convection (a pattern-forming nonlinear system), emphasizing on ring convective patterns in an elliptical boundary

Awards

2009: - Outstanding PhD Thesis Award by National Research Council Of Thailand, Thailand

2008: - Thai Scholar Innovation Program award by Office of Educational Affairs, USA

2002: - Graduated with the Outstanding Senior Award and highest academic honors, UCSB

2001: - Summer 2001 Research Internships in Science and Engineering award (RISE), UCSB

2000: - CCS Summer Undergraduate Research Fellowships award (SURF), UCSB

1999: - 1st place local winner at UCSB and 17th place nationwide on 1999 BAUPC.

1997: - Thai Scholarship for study in the field of Physics through Ph. D. in the U.S.

- A Thai representative for 28th International Physics Olympiad (IPhO), Sudbury, Canada.

Selected publications (from total 30 publications)

- Meevasana W., King P.D.C., He R.H., Mo S.-K., Hashimoto M., Tamai A., Songsiriritthigul P**.**, Baumberger F., Shen Z.-X., Creation and control of a two-dimensional electron liquid at the bare SrTiO 3 surface , Nature Materials , 10 ; 114 (2011)**.** (impact factor = 29.5)

- King P.D.C., Rosen J.A., **Meevasana W.**, Tamai A., Rozbicki E., Comin R., Levy G., Fournier D., Yoshida Y., Eisaki H., Shen K.M., Ingle N.J.C., Damascelli A., Baumberger F. , Structural origin of apparent Fermi surface pockets in angle-resolved photoemission of $Bi_2Sr_{2-x}La_xCuO_6$, Physical Review Letters , 106 ; 127005 (2011) (impact factor = 7.3)

- He R.-H., Hashimoto M., Karapetyan H., Koralek J.D., Hinton J.P., Testaud J.P., Nathan V., Yoshida Y., Yao H., Tanaka K., **Meevasana W.**, Moore R.G., Lu D.H., Mo S.-K., Ishikado M., Eisaki H., Hussain Z., Devereaux T.P., Kivelson S.A., Orenstein J., Kapitulnik A., Shen Z.-X. , From a single-band metal to a high-temperature superconductor via two thermal phase transitions , Science , 331 ; 1579 (2011). (impact factor = 29.7)

- Meevasana W., Zhou X.J., Moritz B., Chen C.-C., He R.H., Fujimori S.-I., Lu D.H., Mo S.-K., Moore R.G., Baumberger F., Devereaux T.P., Van Der Marel D., Nagaosa N., Zaanen J., Shen Z.-X., Strong energy-momentum dispersion of phonon-dressed carriers in the lightly doped band insulator SrTiO3 , New Journal of Physics , 12 ; 23004 (2010)**.** (impact factor = 3.3)

- Hashimoto M., He R.-H., Tanaka K., Testaud J.-P., **Meevasana W.**, Moore R.G., Lu D., Yao H., Yoshida Y., Eisaki H., Devereaux T.P., Hussain Z., Shen Z.-X., Particle-hole symmetry breaking in the pseudogap state of Bi2201 , Nature Physics , 6 ; 414 (2010). (impact factor = 15.5)

- Meevasana W., Supruangnet R., Nakajima H., Topon O., Amornkitbamrung V., Songsiriritthigul P. , Electron affinity study of adamantane on Si(1 1 1) , Applied Surface Science , 256 ; 934 (2009). (impact factor = 1.6)

- Meevasana W., N.J.C. Ingle, D.H. Lu, J.R. Shi, F. Baumberger, K.M. Shen, W.S. Lee, T. Cuk, H. Eisaki, T.P. Devereaux, N. Nagaosa, J. Zaanen, and Z.-X. Shen, “Doping dependence of the coupling of electrons to bosonic modes in the single-layer high-temperature $Bi_2Sr_2CuO_6$ superconductor”, Physical Review Letters, 96; 157003 (2006) (impact factor = 7.3)

- Meevasana W., T.P. Devereaux, N. Nagaosa, Z.-X. Shen, and J. Zaanen, “Calculation of overdamped c-axis charge dynamics and the coupling to polar phonons in cuprate superconductors”, Physical Review B, 74; 174524 (2006). (impact factor = 3.4)