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(i) Professional Preparation:

Post-Doctoral Fellow (Physics) University of California, Berkeley, 1999-2001

Ph.D., Harvard University (Applied Physics) 1999

M.A., Harvard University (Applied Physics) 1996

S.M., Seoul National University (Physics) 1992

B.S., Seoul National University (Physics) 1990

(ii) Experience & Employment

Professor, Department of Physics, Harvard University, 2014- Present

Professor, Department of Physics, Columbia University, 2009- 2014

Associate Professor, Department of Physics, Columbia University, 2006-2009

Assistant Professor, Department of Physics, Columbia University, 2002-2006

Miller Postdoctoral Fellow in Physics, University of California, Berkeley 1999-2001

Research Assistant and Teaching Fellow, Harvard University, 1995-1999

Research Assistant, Seoul National University, 1993-1994

(iii) Honors and Awards

Robert Meserve Memorial Lecture, MIT (2016); Rustgi Lecture, State University of New York, Buffalo (2015); Experimental Investigator in Quantum Materials Award, Moore Foundation (2014); Kay Malmstrom Lecture in Physics, Hamline University, (2014); Oliver E. Buckley Prize, American Physical Society (2014); Loeb Lecture, Harvard University (2012); Dresden Barkhausen Award (2012); Yunker Lecture, Oregon State University, (2011); Scientist of the Year, Korean-American scientists and Engineers Association (2011); Proud Korean Award, Korean American Leadership Foundation (2011); Chapman Lecture, Rice University, (2009); IBM Faculty Award (2009); Ho-Am Science Prize (2008); American Physical Society Fellow (2007); Columbia University Distinguished Faculty Award (2007); Recipient Scientific American 50 (2006); National Science Foundation Faculty Career Award (2004); Outstanding Young Researcher Award, Association of Korean Physicists in America (2002); Miller Research Fellowship, University of California at Berkeley (1999-2001);

(iv) Publications:

Total Publications (More than 170 publications including Nature (6), Science (12), Nature Phys. (8), Nature Nanotech (8), Nature Materials (1), Phys. Rev. Letts (32), Nano Lett. (20)).

Total Citation (More than 58,000, h-index: 81 according to Google Scholar).

- Journals

1. J. Ravichandran, C. R. Serrao, D. K. Efetov, D. Yi, Y. S. Oh, S.-W. Cheong, R. Ramesh, P. Kim, "Ambipolar Transport and Magneto-resistance Crossover in a Mott Insulator, Sr₂IrO₄," *Journal of Physics: Condensed Matter*, in press: arXiv:1312.7015.
2. R. Hovden, A. W. Tsen, P. Liu, B. H. Savitzky, I. E. Baggari, Y. Liu, W. Lu, Y. Sun, P. Kim, A. N. Pasupathy, and L. F. Kourkoutis, "Atomic lattice disorder in charge-density-wave phases of exfoliated dichalcogenides (1T-TaS₂)," *Proc. Nat. Acad. Sci. USA* **113**, 11420–11424 (2016).
3. J. Y. Park, G.-H. Lee, J. Jo, A. K. Cheng, H. Yoon, K. Watanabe, T. Taniguchi, M. Kim, P. Kim and G.-C. Yi, "Molecular beam epitaxial growth and electronic transport properties of high quality topological insulator Bi₂Se₃ thin films on hexagonal boron nitride," *2D Materials* **3**, 035029 (2016).
4. P. Ajayan, P. Kim and K. Banerjee, "Two-dimensional van der Waals materials," *Physics Today*, September 2016, page 38.
5. Y. M. Brovman, J. P. Small, Y. Hu, Y. Fang, C. M. Lieber, P. Kim, "Electric Field Effect Thermoelectric Transport in Individual Silicon and Germanium/Silicon Nanowire," *J. Appl. Phys.* **119**, 234304 (2016).
6. Y. Guo, R. B. Smith, Z. Yu, D. K. Efetov, J. Wang, P. Kim, M. Z. Bazant, and L. E. Brus, "Li Intercalation into Graphite: Direct Optical Imaging and Cahn-Hilliard Reaction Dynamics," *J. Phys. Chem. Lett.* **7** (11), pp 2151–2156 (2016).
7. J. Yu, C.-H. Lee, D. Bouilly, M. Han, P. Kim, M. L. Steigerwald, X. Roy, and C. Nuckolls, "Patterning Superatom Dopants on Transition Metal Dichalcogenides," *Nano Lett.* **16**, 3385–3389 (2016).
8. Y. Hao, L. Wang, Y. Liu, H. Chen, X. Wang, C. Tan, S. Nie, J. W. Suk, T. Jiang, T. Liang, J. Xiao, W. Ye, C. R. Dean, B. I. Yakobson, K. F. McCarty, P. Kim, J. Hone, L. Colombo and R. S. Ruoff, "Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene," *Nature Nanotechnology*, **11**, 426-431 (2016).
9. D. K. Efetov, L. Wang, C. Handschin, K. B. Efetov, J. Shuang, R. Cava, T. Taniguchi, K. Watanabe, J. Hone, C. R. Dean, and P. Kim, "Specular Interband Andreev Reflections in Graphene," *Nature Physics*, **12**, 328-332 (2016).
10. F. Ghahari, H.-Y. Xie, T. Taniguchi, K. Watanabe, M. S. Foster, P. Kim, "Enhanced thermoelectric power in graphene: violation of the Mott relation by inelastic scattering," *Phys. Rev. Lett.* **116**, 136802 (2016).
11. S. Bhandari, G. H. Lee, A. Klales, K. Watanabe, T. Taniguchi, E. Heller, P. Kim, R. M. Westervelt, "Imaging Cyclotron Orbits of Electrons in Graphene," *Nano Lett.*, **16**, 1690-1694 (2016).
12. A. Lucas, J. Crossno, K. C. Fong, P. Kim, S. Sachdev, "Transport in inhomogeneous quantum critical fluids and in the Dirac fluid in graphene," *Phys. Rev. B*, **93**, 075426 (2016).
13. J. Crossno, J. K. Shi, K. Wang, X. Liu, A. Harzheim, A. Lucas, S. Sachdev, P. Kim, T. Taniguchi, K. Watanabe, T. A. Ohki, K. C. Fong, "Observation of the Dirac fluid and the breakdown of the Wiedemann-Franz law in graphene," *Science* **351**, 1058-1061 (2016).

14. C. Chen, V. V. Deshpande, M. Koshino, S. Lee, A. Gondarenko, A. H. MacDonald, P. Kim and J. Hone, "Modulation of mechanical resonance by chemical potential oscillation in graphene," *Nature Physics* **12**, 240-244 (2016).
15. A. W. Tsen, B. Hunt, Y. D. Kim, Z. J. Yuan, S. Jia, R. J. Cava, J. Hone, P. Kim, C. R. Dean, and A. N. Pasupathy, "Evidence for a Bose Metal in a Two-Dimensional Crystalline Superconductor," *Nature Physics* **12**, 208-212 (2016).
16. B. Choi, J. Yu, D. W. Paley, M. T. Trinh, M. V. Paley, J. M. Karch, A. C. Crowther, C.-H. Lee, R. A. Lalancette, X. Zhu, P. Kim, M. L. Steigerwald, C. Nuckolls, and X. Roy, "van der Waals Solids from Self-Assembled Nanoscale Building Blocks," *Nano Lett.* **16**, pp 1445–1449 (2016)
17. A. W. Tsen, R. Hovden, D. Z. Wang, Y. D. Kim, J. Okamoto, K. A. Spoth, Y. Liu, W. J. Lu, Y. P. Sun, J. Hone, L. F. Kourkoutis, P. Kim, and A. N. Pasupathy, "Structure and Control of Charge Density Waves in Two-Dimensional 1T-TaS₂," *Proc. Nat. Acad. Sci. USA* **112**, 15054–15059 (2015)
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33. Seok Ju Kang, Gwan-Hyoung Lee, Young-Jun Yu, Yue Zhao, Bumjung Kim, Kenji Watanabe, Takashi Taniguchi, James Hone, Philip Kim, Colin Nuckolls, "Organic Field Effect Transistors Based on Graphene and Hexagonal Boron Nitride Heterostructures," *Advanced Functional Materials* **24** (32), 5157-5163
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- Reviews and Book chapters

1. Melinda Y Han, Philip Kim, "Graphene nanoribbon devices at high bias," *Nano Convergence* **1**, 1 (2014)
2. C. Dean, A.F. Young, L. Wang, I. Meric, G.-H. Lee, K. Watanabe, T. Taniguchi, K. Shepard, P. Kim, J. Hone, "Graphene Based Heterostructures," *Solid State Communications* **152**, 1275-1282 (2012).
3. A. F. Young and P. Kim, "Electronic Transport in Graphene Heterostructures," *Annual Reviews Condens. Matter Phys.* **2**, 101-120 (2011)
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- Conference Proceedings

1. I. Meric, C. Dean, A. young, J. Hone, P. Kim, and K. L. Shepard, "Graphene field-effect transistors based on boron nitride gate dielectrics," International Electron Devices Meeting, 2010, pp 23.2.1 - 23.2.4
2. P. Kim, M Y. Han, A. F. Young, I. Meric, and K. L. Shepard, "Graphene Nanoribbon Devices and Quantum Heterojunction Devices," International Electron Devices Meeting, 2009.
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6. J. Hone, P. Kim, X. M. H. Huang, B. Chandra, R. Caldwell, J. Small, B. H. Hong, T. Someya, L. Huang, S. O'Brien, and C. P. Nuckolls, "Growth of nanotubes and chemical sensor applications", SPIE Proc. 5593, 1-12 (2004).
7. J. Small, and P. Kim, "Thermopower measurement of individual single walled nanotubes", *Microscale Thermophysical Engineering* **8**, 1 (2004).
8. L. Shi, P. Kim, P. L. McEuen and A. Majumdar, "A Microdevice for Measuring Thermophysical properties of Nanotubes and Nanowires," Proc. ASME Int. Mech. Eng. Congress & Exposition, HTD-24141 (2001).
9. L. Shi, P. Kim, S. Plyasunov, A. Bachtold, P. L. McEuen and A. Majumdar, "Scanning Thermal Microscopy of Dissipation in Current-Carrying Carbon Nanotubes," Proc. ASME Int. Mech. Eng. Congress & Exposition, HTD-24401 (2001).
10. T.W. Odom, J.-L. Huang, P. Kim, M. Ouyang and C.M. Lieber, "Scanning tunneling microscopy and spectroscopy studies of single wall carbon nanotubes", J. Mater. Res. **13**, 2380-2388 (1998).
11. P. Kim, T.W. Odom, J.-L. Huang and C.M. Lieber, "Electronic Structures and Applications of Carbon Nanotubes", in *Electronic Properties of Novel Materials Science and Technology of Molecular Nanostructures: Xiii International Winterschool* (AIP Conference Proceedings), H. Kuzmany, J. Fink, M. Mehring, and S. Roth, eds. (Springer Verlag, 1999).
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13. P. Kim, Z. Yao and C.M. Lieber, "Structure of Vortex Arrays by Magnetic Decoration", *8th IWCC Conf. Proc.* 3-10 (World Scientific Publishing Co.: Singapore, 1996).

(v) Invited Presentations:

Oct 21, 2016	Condensed Matter Physics Seminar, University of Illinois, Urbana-Champaign	Urbana-Champaign, IL
Oct 12, 2016	Physics Department Colloquium, Boston College	Boston, MA
Oct 3, 2016	Invited Speaker, The 53rd Annual Technical Meeting of the Society of Engineering Science (SES)	College Park, MD

Sept 26, 2016	Plenary Speaker, Recent Progress of Graphene Research (RPGR) 2016	Seoul, Korea
Sept 21, 2016	MIT Micro/Nano Seminar	Cambridge, MA
Aug 23, 2016	Keynote Speaker, 20 th International Vacuum Society Meeting	Pusan, Korea
Aug 5, 2016	Invited Speaker, International Conference of Physics of Semiconductor (ICPS)	Beijing, China
July 12, 2016	Invited Speaker, ITAMP Workshop on Fractional Quantum Hall Physics	Cambridge, MA
July 6, 2016	Keynote Speaker, IWRPS	Yongpyung, Korea
July 4, 2016	Plenary Speaker, ISPSA	Jeju, Korea
June 30, 2016	Plenary Speaker, The 2nd International Symposium on Device and Applications of Two-dimensional Materials	Shanghai, China
June 13, 2016	Lecturer, School for Nano Energy	Rome, Italy
June 8, 2016	Keynote Speaker, CIMTEC 2016	Perugia, Italy
May 11, 2016	Invited Speaker, Workshop on 2D Materials Beyond Graphene	Argonne, IL
May 3, 2016	Invited Speaker, European Materials Research Society Meeting	Lille, France
April 28, 2016	Department Colloquium, University of Ottawa	Ottawa, Canada
April 8, 2016	The Robert H. Meservey Memorial Lecture, MIT	Cambridge, MA
Mar 14, 2016	Invited Speaker, 215 th American Chemical Society National Meeting	San Diego, CA
Jan 18, 2016	Mooju Winterschool, Tutorial lecturer	Mooju, Korea
Jan 6-8, 2016	Invited Lecturer, Topology and Quantum Numbers in Condensed Matter Physics	Seoul, Korea
Dec 15, 2015	Invited Speaker, Big Ideas in Quantum Materials	La Jolla, CA
Dec 2, 2015	Invited Speaker, MRS Fall Meeting	Boston, MA
Oct 14, 2015	MIT Optics and Quantum Electronics Seminar	Cambridge, MA
Sep 25, 2015	Physical Sciences Symposium on Crystals and Graphene Sciences Symposium	Boston, MA
Sep 21, 2015	Physics Colloquium, University of Wisconsin	Madison, WI
Aug 5, 2015	Invited Speaker, EPiQM Moore Foundation PI's meeting	San Francisco, CA
July 31, 2015	Plenary Speaker, EP2DS-21 / MSS-17	Sendai, Japan
Jun 29, 2015	Invited Speaker, MPG-POSTECH forum	Pohang, Korea
Jun 22, 2015	Plenary Speaker, Graphene Week 2015	Manchester, UK
May 20, 2015	CalTech - Materials Research Lecture	Pasadena, CA
May 15, 2015	Invited Speaker, The 4th Super-PIRE REIMEI Workshop on Frontiers of Condensed Matter Physics	Vancouver, Canada
May 8, 2015	Rustgi Lecture, State University of New York, Buffalo	Buffalo, NY

May 7, 2015	Condensed Matter Physics Seminar, University of Maryland	College Town, MD
April 23, 2015	EU-US 2D Materials Workshop, invited speaker	Washington DC
April 6, 2015	Invited Talk, Material Research Society Spring Meeting	San Francisco, CA
March 26, 2015	Physics Colloquium, Northeastern University	Boston, MA
March 20, 2015	Physics Colloquium, University of Central Florida	Orlando, Florida
Feb 20, 2015	Physics Colloquium, McGill University	Montreal, Canada
Jan 7, 2015	Invited Speaker, Winter Workshop on Quantum Materials in Condensed Matter Physics	Seoul, Korea
Dec. 10, 2014	Physics Colloquium, University of Michigan	Ann Arbor, MI
Nov. 24, 2014	Physics Colloquium, Berkeley	Berkeley, CA
Nov. 14, 2014	Malmstrom Lecture, Hamline University	Saint Paul, MN
Oct 17, 2014	Invited Speaker, International Workshop on Field-Effect Transistors and Functional Interfaces	Kashiwa, Japan
Oct 3, 2014	Invited Speaker, The 19th "Science in Japan" Forum Frontiers of Research on Low-Dimensional Systems	Washington DC
Aug 25, 2014	Plenary speaker, 7 th International Conference on Molecular Electronics (ElecMol)	Strasbourg, France
Aug 22, 2014	Invited speaker, Les Houches Summer School: Topological aspects of condensed matter physics	Les Houches, France
Jun 28, 2014	Invited Speaker, Poicare Seminar on Dirac Matter	Paris, France
May 28, 2014	Invited Speaker, Ho-Am Forum on Science 2014: 2-Dimensional quantum materials systems	Seoul, Korea
May 14, 2014	Physics Colloquium, Brookhaven National Laboratory	Brookhaven, NY
May 10, 2014	Invited Speaker, AKPA - IBS Symposium on Special Topics in Physics	Chicago, IL
April 21, 2014	Invited Speaker, MRS meeting	San Francisco, CA
April 18, 2014	EE Seminar, Duke University	Durham, NC
March 31, 2014	Plenary Speaker, German Physical Society Meeting	Dresden, Germany
March 20, 2014	Physics Colloquium, Florida State University	Tallahassee, FL
March 3, 2014	Invited Speaker, APS March Meeting	Denver, CO
Feb. 20, 2014	Physics Colloquium, Purdue University	West Lafayette, IN
Feb. 13, 2014	Keynote speaker, Mooju Winterschool	Mooju, Korea
Feb. 6, 2014	Physics Colloquium, New York University	New York, NY
Jan. 29, 2014	Colloquium, UMass Amherst	Amherst, MA
Jan. 7 th , 2014	KITP Colloquium	Santa Barbara
Dec. 18, 2013	Invited Seminar at LG Display	Seoul, Korea
Nov 21 st , 2013	Department Colloquium Vanderbilt University	Knoxville, TN
Nov 7 th , 2013	Physics Colloquium, Perimeter Institute	Waterloo, Canada

Oct 24 th , 2013	Invited Speaker, The Kavli Prize Scientific Symposium in honor of Dr. Mildred Dresselhaus	Washington DC
Oct 2 nd , 2013	Invited Speaker, Italy-US Research in Nanotechnology: Toward Sustainable Energy	New York, NY
Aug 13, 2013	Invited Speaker, the Korean-US Kavli Symposium	Irvine, CA
July 9, 2013	Special Seminar, UNIST	Ulsan, Korea
July 5, 2013	Plenary speaker, The 14 th International Conference on the Formation of Semiconductor Interface	Gyungju, Korea
July 2, 2013	Invited Speaker, The 20 th International Conference on Electronic Properties of Two-Dimensional Systems (EP2DS)	Wroclaw, Poland
Jun 27, 2013	Invited Speaker, International Symposium of Quantum Hall Effects and Related Topics	Stuttgart, Germany
Jun 24, 2013	Invited Speaker, 2013 Swiss Workshop on Materials with Novel Electronic Properties	Les Diablerets, Switzerland
Jun 7, 2013	Special seminar at SAINT	Soowon, Korea
May 29, 2013	K.A.O.S, public lecture	Seoul, Korea
May 24, 2013	Materials Science Colloquium, GIST	Gwangju, Korea
May 17, 2013	Condensed Matter Physics Seminar at Delft University	Delft, Netherlands
May 14, 2013	Invited Speaker, Nanotech Conference & Expo 2013	Washington DC
May 3, 2013	Invited speaker, Workshop on Electro-electron interaction graphene and other new 2D materials	Minneapolis, MN
April 29, 2013	Pennergy Seminar at University of Pennsylvania	Philadelphia, PA
April 26, 2013	Physics Colloquium at University of Virginia	Charlottesville, VA
April 15, 2013	Physics Colloquium at Temple University	Philadelphia, PA
Mar 1, 2013	Physics Colloquium at Northwestern University	Evanston, IL
Feb 15, 2013	Physics Colloquium at University of Kentucky	Kentucky
Feb 1, 2013	Invited Lecturer, School on Modern Topics in Condensed Matter Physics	Singapore
Jan 31, 2013	Special Seminar at Graphene Center, National University of Singapore	Singapore
Jan 15, 2013	Colloquium Pierre et Marie Curie	Paris, France
Jan. 14, 2013	Seminar at Laboratory of Physics of Solids, University of Paris, South	Orsay, France
Dec. 18, 2012	Condensed Matter Physics Seminar at KIAS	Seoul, Korea
Dec. 17, 2012	Plenary Speaker, Graphene Workshop at Sejong University	Seoul, Korea
Nov 27, 2012	Invited Speaker, MRS	Boston, MA
Nov 5, 2012	Physics Colloquium, University of Washington	Seattle, WA
Oct 23, 2012	Physics/Applied Physics Colloquium; EE distinguished Lecture Series, Stanford University	Palo Alto, CA
Oct 6, 2012	Invited Speaker, Recent Progress in Graphene Research	Beijing China

Sept 21, 2012	Loeb Lecture, Harvard University	Cambridge, MA
August 3, 2012	Invited Speaker, Super-PIRE Workshop	Washington DC
July 31, 2012	Invited Speaker, DOE Science Graduate Fellowship meeting	Brook Haven, NY
July 23, 2012	Invited Speaker, High Magnetic Fields in Semiconductor Physics, HMF-20	Chamonix, France
July 5, 2012	Plenary Speaker, Conference on Precision Electromagnetic Measurements, 2012	Washington DC
Jun 25, 2012	Invited Presentation, Gordon Research Conference on Correlated Electron Systems	South Hadley, MA
Jun 17, 2012	Invited Presentation, Gordon Research Conference on Graphitic Carbon Materials	Davidson, NC
May 30, 2012	NSF/AFOSR Workshop on 2D Materials and Devices beyond Graphene	Washington DC
May 15, 2012	Physics Colloquium, Fudan University	Shanghai, China
May 9, 2012	Physics Department Seminar, Sejong University	Seoul, Korea
May 7, 2012	Chemical Engineering Department Colloquium, Seoul National University	Seoul, Korea
April 23, 2012	Physics Colloquium, Brown University	Providence, RI
April 9, 2012	Invited Speaker, MRS Spring Meeting	San Francisco, CA
April 4, 2012	Physics Colloquium, Argonne National Laboratory	San Francisco, IL
March 30, 2012	Electrical Engineering Seminar, Harvard University	Cambridge, MA
March 26, 2012	Physics Department Colloquium, Queens College	Queens, New York
March 16, 2012	Physics Department Colloquium, Virginia Institute of Technology	Blacksburg, VA
Feb 24, 2012	Department of Material Science and Engineering Carnegie Mellon University	Pittsburgh, PA
Feb 10, 2012	Dresden Barkhausen Award Ceremonial Lecture	Dresden, Germany
Jan 9, 2012	Fundamental Aspects of Graphene and Other Carbon Allotropes	Santa Barbara
Dec 21, 2011	Plenary Speaker, Graphene Workshop	Seoul, Korea
Dec 14, 2011	Chemistry Colloquium, Naval Research Laboratory	Washington, DC
Nov 10, 2011	Yunker Seminar, Oregon State University	Corvallis, OR
Nov 7, 2011	Physics Club Colloquium, Yale University	New Haven, CT
Oct 21, 2011	Plenary Speaker, Korean Physical Society Fall Meeting	Busan, Korean
Oct 5, 2011	Physics Colloquium, University of Minnesota	Minneapolis, MN
Sept 27, 2011	Physics Colloquium, University of Maryland	College Park, MD
Sept 19, 2011	Physics Colloquium, Columbia University	New York, NY
Sept 12, 2011	Invited Speaker, Opportunities at the Interface of Neuroscience and Nanoscience	London, UK
Aug 30, 2011	Invited Speaker, Workshop on Graphene	San Sebastian, Spain

Aug 11, 2011	Keynote Speaker, US-Korea Conference on Science, Technology and Entrepreneurship	Park City, UT
Aug 2, 2011	International School of Solid State Physics, Quantum Phenomena in Graphene, Topological Insulators, other low dimensional materials and optical lattices	Erice, Italy
Jul 19, 2011	Colloquium, Max Plank Institute	Stuttgart, Germany
Jun 16, 2011	The 71st Physical Electronics Conference	Albany, NY
June 9, 2011	Global Research Forum	Seoul, Korea
June 2, 2011	Graphene and Related Two-Dimensional Materials	London, UK
May 24, 2011	Physics Department Colloquium, Seoul National University	Seoul, Korea
May 20, 2011	Distinguished Scholar Seminar	Suwon, Korea
May 16, 2011	Keynote speaker, International Conference on Nano Diamond and Nano Carbon	Matsue, Japan
May 10, 2011	Keynote speaker, Graphene the road to applications	Boston, MA
May 5, 2011	Physics Seminar, at New York City College of Technology of CUNY	Brooklyn, NY
Apr 27, 2011	MRS Invited Speaker	San Francisco, CA
Apr 25, 2011	2011 VLSI-TSA Symposium	Hsinchu, Taiwan
Apr 24, 2011	2011 Frontier of Spintronics / Nanoelectronics workshop	Hsinchu, Taiwan
Apr 11, 2011	Graphene 2011 conference in Bilbao	Bilbao, Spain
April 8, 2011	CNE colloquium, SUNY Albany	Albany, NY
Mar 23, 2011	APS March Meeting, Invited talk	Dallas, TX
Mar 17, 2011	Physics Colloquium, APS Editorial Office	Ridge, NY
Mar 12, 2011	Invited Speaker, Moriond Conference on Graphene 2011	Moriond, Italy
Jan 21, 2011	Physics Colloquium, NIST	Gaithersburg, MD
Jan 12, 2011	Invited Speaker, International Symposium on Nanoscale Transport and Technology	Atsugi, Japan
Dec 18, 2010	The International Chemical Congress of Pacific Basin Societies	Honolulu, Hawaii
Dec 14, 2010	Physical Chemistry Seminar, Caltech	Pasadena, CA
Dec 5, 2010	Physical Phenomena at High Magnetic Fields 2010	Tallahassee, FL
Dec 4, 2010	Symposium for Millie Dresselhaus's 80 th Birthday	Cambridge, MA
Dec 2, 2010	Physics Colloquium, MIT	Cambridge, MA
Nov 18, 2010	Physics Colloquium, University of Florida	Gainesville, FL
Nov 11, 2010	Invited Speaker Dasan International Conference	Jeju, Korea
Oct 22, 2010	Invited Lecturer, Graphene International School	Cargèse, France
Oct 16, 2010	Invited Speaker, Julius Springer Forum on Applied Physics	Stanford, CA
Oct. 9, 2010	Invited Speaker, Electronic Properties of Graphene	Princeton, NJ
Sept 28, 2010	Physics Department Seminar, Brooklyn College	New York, NY

Sept 17, 2010	ITRS Workshop on Emerging Spin and Carbon Based Emerging Logic Devices	Seville, Spain
Sept 14, 2010	Condensed Matter Physics Seminar, Rutgers University	Piscataway, NJ
Sept 1, 2010	Conference on Novel Quantum States in Condensed Matter	Beijing, China
Aug 13, 2010	US-Korea Conference on Science, Technology, and Entrepreneurship (UKC) 2010	Seattle, WA
Aug 11, 2010	US Air Force AFOSR/AOARD Workshops	Seattle, WA
Aug 6, 2010	The 19th International Conference on the Application of High Magnetic Fields in Semiconductor Physics and Nanotechnology (HMF-19)	Fukuoka, Japan
Aug 2, 2010	Keynote speaker, Recent Advances in Graphene and Related Materials	Singapore
July 29, 2010	Institutional Seminar, Ulsan National Institute of Technology	Ulsan, Korea
July 28, 2010	Graphene miniworkshop, Seoul National University	Seoul, Korea
Jun 28, 2010	Graphene Satellite Symposium at NT 10	Montreal, Canada
Jun 17, 2010	Gordon Research Conference on Correlated Electron Systems	Mountain Holyoke, MA
Jun 7, 2010	Workshop on Interactions, Disorder, and Topology in Quantum Hall Systems	Dresden, Germany
May 29, 2010	Nobel Symposium on Physics of Graphene	Stockholm, Sweden
May 25, 2010	Spring College on Computational Nanoscience	Trieste, Italy
May 12, 2010	The 125th Anniversary YONSEI International Symposium	Seoul, Korea
May 7, 2010	Physics, Colloquium, Argon National Laboratory	Argon, IL
May 6, 2010	Physics Colloquium, University of Chicago	Chicago, IL
April 20, 2010	QHE30 Conference	Minnesota, MN
April 16, 2010	Physics Colloquium, University of Cincinnati	Cincinnati, OH
April 7, 2010	Physics Colloquium, Hunter College	New York, NY
Mar. 9, 2010	International Winter School of Electronic Properties of Novel Materials	Kirchberg, Austria
Feb 24, 2010	Physics Colloquium, Rensselaer Polytech Institute	Troy, NY
Feb 5, 2010	2010 International Winter School: Beyond Moore's Law	Jeju, Korea
Jan 25, 2010	Physics Colloquium, Univ. of Pittsburgh	Pittsburgh, PA
Dec 10, 2009	Invited Speaker, IEDM	Baltimore, MD
Nov 19, 2009	Physics and Electrical Engineering Department Colloquium, University of California at Riverside	Riverside, CA
Nov 6, 2009	Physics Colloquium, Rice University	Houston, TX
Oct 16, 2009	Invited Speaker, User Meeting in Molecular Foundry	Berkeley, CA
Sept 3, 2009	Physics Department Colloquium Speaker, Purdue University	West Lafayette, IN

Aug. 16, 2009	Invited Speaker, American Chemical Society Annual Meeting	Washington DC
July 30, 2009	Invited Speaker, Graphene Conference	Benasque, Spain
July 1, 2009	Invited Speaker, Recent Progress in Graphene Research	Seoul, Korea
Jun 25, 2009	Department Colloquium, Ecole Normal Supreme	Paris, France
Jun 24, 2009	Invited Speaker, Nanoschool II del France	Paris, France
May 26, 2009	Invited Speaker, ECS 215 th meeting	San Francisco, CA
May 1, 2009	Jack Fischer Festival, University of Pennsylvania	Philadelphia, PA
April 15, 2009	Physics Department Colloquium Speaker, Georgia Tech	Atlanta, GA
April 3, 2009	Physics Department Colloquium Speaker, University of Alberta	Alberta, CA
April. 1, 2009	Physics Department Colloquium Speaker, University of Texas at Austin	Austin, TX
Mar. 25, 2009	Physics Department Colloquium Speaker, Indiana University	Bloomington, IN
Mar. 16, 2009	American Physical Society, March Meeting, Invited Speaker	Pittsburg, PA
Feb. 26, 2009	Invited Speaker, KITP Low Dimensional Electron Systems	Santa Barbara, CA
Jan. 15, 2009	Department Colloquium, MSE Department, University of Pennsylvania	Philadelphia, PA
Dec. 10, 2008	Department Colloquium, MSE Department, KAIST	Daejeon, Korea
Dec. 5, 2008	Invited speaker, The 18 th Workshop on Nanosclae and Mesoscopic Systems	Pohang, Korea
Nov. 27, 2008	Department Colloquium, Physics Department, Kyung Hee University	Seoul, Korea
Nov. 21, 2008	Seminar at APCTP	Seoul, Korea
Nov. 5, 2008	Department Colloquium, Physics Department, Yeonsei University	Seoul, Korea
Nov. 4, 2008	Department Colloquium, Physics Department, Sejong University	Seoul, Korea
Oct 29, 2008	Invited speaker, MPI-Korea Symposium	Pohang, Korea
Oct. 24, 2008	Tutorial speaker, KPS Fall meeting 2008	Kwangju, Korea
Oct. 23, 2008	Invited speaker, SAIT Forum	Suwon, Korea
Oct 19, 2008	Invited speaker, KCIST 08	Phoenix Par, Korea
Oct 17, 2008	Department Colloquium, Physics Department, Sungkeunkwan University	Suwon, Korea
Sept 27, 2008	Invited speaker, ICNME 2008	Dalin, China
Sept 22, 2008	Invited speaker, ERD Graphene Workshop	Tsukuba, Japan
Sept 19, 2008	Department Colloquium, MSE department, GIST	Kwangju, Korea
Sept 17, 2008	Department Colloquium, Physics Department, Ewah Women's University	Seoul, Korea
Sept 12, 2008	Invited speaker, Neo Eureka Forum	Seoul, Korea

August 25, 2008	Invited speaker, Graphene Week 2008	Trieste, Italy
July 31, 2008	Plenary Speaker, ICPS 2008	Rio de Janeiro, Brazil
July 7, 2008	Keynote Speaker, YESS08	Washington, DC
Jun 23, 2008	Plenary Speaker, Device Research Conference 2008	Santa Barbara, CA
Jun 17, 2008	Invited Talk, Graphene Week, Aspen Physics Center	Aspen, CO
Jun 5, 2008	Ho-Am Prize Ceremonial Seminar, Seoul National University	Seoul, Korea
May 28, 2008	Plenary Speaker, EIPBN 2008 meeting	Portland, OR
May 13, 2008	Department Seminar, Michigan Technology University	Hancock, MI
May 8, 2008	Invited Presentation, NRI/FCRP Graphene Workshop	Cambridge, MA
April 30, 2008	Department Colloquium, University of Massachusetts, Lowell	Lowell, MA
April 23, 2008	Frontiers in Nanotechnology Seminar, Northwestern University	Evanston, Illinois
April 9, 2008	American Chemical Society Meeting, Invited Talk	New Orleans, LA
March 26, 2008	Materials Research Society Invited Talk	San Francisco, CA
March 20, 2008	Department Colloquium, Michigan State University	East Lansing, MI
March 11, 2008	American Physical Society March Invited Talk	New Orleans, LA
March 9, 2008	American Physical Society March Meeting Tutorial	New Orleans, LA
Feb 18, 2008	Invited Talk, Mauterndorf Winterschool	Salzburg, Austria
Feb 13, 2008	Department Colloquium, University of Rochester	Rochester, NY
Jan 17, 2008	Department Colloquium, University of California at San Diego	San Diego, CA
Jan 11, 2008	2008 International Winter School: Beyond Moore's Law	Kenting, Taiwan
Jan 8, 2008	FENST Workshop on Nanoelectronics and Nanophotonics	Basel, Swiss
Dec 10, 2007	Condensed Matter Physics Seminar, Princeton University	Princeton, NJ
Dec 6, 2007	Physics Department Colloquium, Lehigh University	Bethlehem, PA
Nov 28, 2007	Physics Department Colloquium, CUNY	New York, NY
Nov 26, 2007	Condensed Matter Physics Seminar at Berkeley	Berkeley, CA
Nov 23, 2007	Yukawa International Symposium 2007	Kyoto, Japan
Nov 19, 2007	FENA/ONAMI Workshop	Los Angeles, CA
Nov 15, 2007	Division of Engineering Seminar at Brown University	Providence, RI
Oct 31, 2007	Solid State Physics Seminar at Yale University	New Haven, Connecticut
Oct 29, 2007	Departmental Seminar, University of Toronto	Toronto, Canada
Oct 19, 2007	Invited Speaker, New England Division of APS Meeting	Storrs, Connecticut
Oct 15, 2007	Vienna Physics Colloquium	Vienna, Austria
Oct 11, 2007	Physics Department Colloquium, New York University	New York, NY

Sept 28, 2007	Invited Speaker, COE21 Workshop on “Strongly Correlated Systems”	Tokyo, Japan
Sept 10, 2007	Physics Department Colloquium, University of Tennessee	Knoxville, Tennessee
Aug 30, 2007	Invited Speaker, NanoKorea 2007	Seoul, Korea
July 17, 2007	Plenary Speaker, EP2DS 17	Genoa, Italy
July 9, 2007	Invited Speaker, Research Workshop on Advances in Physics and Applications of Low-Dimensional Systems	Brasilia, Brazil
Jun 21, 2007	Invited Speaker, Spin Tech IV	Maui, Hawaii
Jun 14, 2007	Invited Talk, Emergent Phenomena in Quantum Hall Systems	Pennsylvania State University, PA
Jun 4, 2007	Invited Talk, Conference on Quantum Phenomena in Confined Dimensions	Trieste, Italy
May 29, 2007	Invited Talk, European Materials Research Society Meeting	Strasbourg, France
May 18, 2007	Physics Department Colloquium, Northwestern University	Evanston, Illinois
May 3, 2007	Condensed Matter and Surface Science Seminar, University of Ohio, Athens	Athens, OH
April 27, 2007	Science Colloquium, IBM Almadan Research Center	San Jose, CA
March 5, 2007	American Physical Society March Meeting Tutorial	Denver, CO
Feb. 22, 2007	Physical Chemistry Seminar, Harvard University	Cambridge, MA
Feb. 20, 2007	Physics Department Colloquium, University of Maryland	University Park, Maryland
Feb 8, 2007	Invited Talk, Mesilla Conference	Mesilla, New Mexico
Jan 15, 2007	Physics and Chemistry of Semiconductor Interface	Salt Lake City, Utah
Jan. 8, 2007	KITP miniworkshop on graphene, UCSB	Santa Barbara, California
Jan. 4, 2007	Physics Department Colloquium, Caltech	Pasadena, California
Dec. 16, 2006	US-Taiwan Workshop, Invited Speaker	Taipei, Taiwan
Dec. 6, 2006	Physics Department Colloquium, University of Colorado	Boulder, Colorado
Nov 30, 2006	Invited Talk, Material Research Society Meeting	Boston, Massachusetts
Nov 2006	Physics Department Colloquium, Delaware University	Newark, Delaware
Nov 2006	Canadian Institute of Advanced Research, Nanoelectronics Workshop	Banff, Canada
Nov 2006	Physics Department Colloquium, Boston University	Boston, Massachusetts
Nov 2006	Physics Department Colloquium, Johns Hopkins University	Baltimore, Maryland
Oct 2006	Physics Department Colloquium, University of North Carolina at Chapel Hill	Chapel Hill, North Carolina
Oct 2006	Special Seminar, Naval Research Laboratory	Washington DC
Oct. 2006	Physics Department Colloquium, Ohio State University	Columbus, Ohio
Oct. 2006	IBM Physical Seminar	Yorktown Heights, NY
Oct. 2006	Chemistry Department Seminar, Lehigh University	Bethlehem, Pennsylvania

Sept 2006	Workshop on Dynamics and Relaxation in Complex Quantum and Classical Systems and Nanostructures	Dresden, Germany
Sept 2006	Physics Department Colloquium, University of Wisconsin	Madison, Wisconsin
Sept 2006	Physics Department Colloquium, Columbia University	New York, New York
Aug 2006	ICTP-ICTS College on Science at Nanoscale	Beijing, China
Aug 2006	CMT Departmental Seminar, Seoul National University	Seoul, Korea
Aug 2006	Nanowire Workshop, Invited Speaker	Seoul, Korea
Jul. 2006	Special Department Seminar, KAIST	Taejeon, Korea
Jul. 2006	Gordon Research Conference on Nanofabrications	Tilton, New Hampshire
Jul. 2006	4 th Stig Lundqvist Conference on Advancing Frontiers of Condensed Matter Physics	Trieste, Italy
Jun 2006	Key note lecture, Nanotube 2006	Nagano, Japan
May 2006	Department Seminar, POSTECH Physics Department	Pohang, Korea
May 2006	FENA Colloquium, UCLA	Los Angeles, CA
May 2006	Condensed Matter Physics Seminar, University of Maryland	University Park, MD
Apr. 2006	Condensed Matter Physics Seminar, UIUC	Urbana-Champaign, IL
Apr. 2006	Department Seminar, Canadian National Research Council	Ottawa, Canada
Mar. 2006	American Physical Society March Meeting	Baltimore, Maryland
Mar. 2006	International Winter School of Electronic Properties of Novel Materials	Kirchberg, Austria
Feb. 2006	Department Colloquium, Cornell University	Ithaca, New York
Feb. 2006	Condensed Matter Physics Seminar, Pennsylvania State University	College Park, Pennsylvania
Feb. 2006	Condensed Matter Physics Seminar, Rutgers University	New Brunswick, New Jersey
Jan. 2006	New York Nanoscience Discussion Group, New York University	New York, New York
Jan. 2006	Nanoelectronics 2006, Lancaster University	Lancaster, United Kingdom
Jan. 2006	Interaction and Dynamics in Low Dimensional Quantum Systems Conference, Weizmann Institute	Rehovot, Israel
Nov. 2005	Condensed Matter Physics Seminar, SUNY Stony Brook	Stony Brook, New York
Nov. 2005	Department Colloquium, Princeton University	Princeton, New Jersey
Nov. 2005	Condensed Matter Physics Seminar, Case Western Reserve University	Cleveland, Ohio
Oct. 2005	Chez Pierre Seminar, MIT	Cambridge, Massachusetts
Oct. 2005	Physics Department Seminar, Yale University	New Haven, Connecticut
Oct. 2005	Graduate Seminar, University of Pittsburgh	Pittsburgh, Pennsylvania
Sep. 2005	Condensed Matter Physics Seminar, University of Pennsylvania	Philadelphia, Pennsylvania
Jul. 2005	Molecular Conduction and Sensor Workshop, Purdue University	Lafayette, Indiana

Jul. 2005	Summer School on Condensed Matter Physics, Princeton Center for Complex Materials	Princeton, New Jersey
May. 2005	Device Research Conference	Santa Barbara, California
Apr. 2005	Korean Physical Society Meeting	Seoul, Korea
Feb. 2005	Materials Science Department Seminar, Rensselaer Polytechnic Institute	Troy, New York
Feb. 2005	Materials Science Division Seminar, Brookhaven National Laboratory	Brookhaven, New York
Jan. 2005	Workshop on Strongly Correlated Electronic Materials	Princeton, New Jersey
Jan. 2005	Lecture in Nanotechnology, University of Washington	Seattle, Washington
Dec. 2004	2 nd International Symposium on Nanostructured Materials	Seoul, Korea
Oct. 2004	Optics East 2004	Philadelphia, Pennsylvania
Jun. 2004	ICTP Spring College on Science at Nanoscale	Trieste, Italy
May 2004	American Electro Chemical Society Meeting	San Antonio, Texas
Mar. 2004	American Physical Society March Meeting	Montreal, Canada
Dec. 2003	International Conference on Advanced Materials and Devices	Jeju, Korea
Oct. 2003	International Thermal Conductivity Conferences	Knoxville, Tennessee
Sep. 2003	Physics Colloquium, Hunter College	New York, New York
Aug. 2003	Stig Lundqvist Conference on Advancing Frontiers of Condensed Matter Physics	Trieste, Italy
Jul. 2003	Special Departmental Seminar, Dept of Material Science, POSTECH	Pohang, Korea
Jul. 2003	International conference on the science and application of nanotubes	Seoul, Korea
Jul. 2003	Departmental Seminar, Dept of Applied Physics, University of Tokyo	Tokyo, Japan
May. 2003	Workshop on carbon-nanotube FETs	Chicago, Illinois
May. 2003	Condensed matter physics seminar, Brookhaven National Laboratory	Brookhaven, New York
Apr. 2003	Condensed matter physics seminar, University of Massachusetts, Amherst	Amherst, Massachusetts
Apr. 2003	Departmental Condensed Matter Physics Seminar, University of Virginia	Charlottesville, Virginia
Feb. 2003	EMD and condensed matter physics seminar, Princeton University,	Princeton, New Jersey
Oct. 2002	MARTECH seminar, Florida State University,	Tallahassee, Florida
Jul. 2002	Quantum phases at the nanoscale	Erice, Italy
Jun. 2002	US-Japan Nanothermal Seminar: Nanoscale Thermal Science and Engineering	Berkeley, California

Apr. 2002	Special Symposium honoring Sumio Iijima for Franklin Medal of Physics, University of Pennsylvania	Philadelphia, Pennsylvania,
Jul. 2001	Department of Chemistry, Korea Advanced Institute of Science and Technology	Taejeon, Korea
Jul. 2001	Departmental Seminar, Department of Physics, Seoul National University	Seoul, Korea
Mar. 2001	Departmental Seminar, Department of Materials Science and Engineering, Berkeley	Berkeley, California
Mar. 2001	Condensed Matter Seminar, Department of Physics, Boston University	Boston, Massachusetts
Feb. 2001	Condensed Matter Physics Seminar, Department of Astronomy and Physics, University of Pennsylvania	Philadelphia, Pennsylvania
Feb. 2000	Institute Seminar, Lawrence Livermore National Laboratory, February 28, 2000.	Livermore, California
Oct. 1999	Special Seminar, Zyvex	Richardson, Texas
Aug. 1999	International Interdisciplinary Colloquium on the Science and Technology of the Fullerenes, , August 29, 1999.	Toulouse, France
Mar. 1999	International Winter School of Electronic Properties of Novel Materials	Kirchberg, Austria

(vi) University and Community Services:

Departmental Committees: Student-faculty issues (2002-4), Machine Shop (2004-7), Graduate Student Seminar (2002-4), Nevis Retreat (2003-4), Graduate Advising Committee (2005-7), Graduate Curriculum Committee (2005), Building Committee (2006-7), Condensed Matter Physics Junior faculty search committee (2007). Colloquium (2009-10, 13), Biophysics Search Committee (2011), Nevis Retreat (2012); Graduate Admission Committee (2015, 2016);

University Committees: Nanocenter Microfabrication Facility Committee (2003-). Presidential Teaching Award Selection Committee (2011, 2012), Chemistry Department Academic Review Committee (2011), Provost Faculty Advisory Committee (2011-2013)

Synergetic Activities: led a discussion of nanoscience and technology and introduced condensed matter physics experimental laboratories and microfabrication facilities to the participants of “Science Invitational” events at Columbia College(08/09/2002); participated in Nano Engineering and Investing Trends Conference held at New York University Stern School of Business as an invited panelist (06/20/2003);); invited panelist for NSF MRI committee (10/20/2004); invited discussion leaders in Gordon research conference (07/22/2005); Panel Discussion Members in Nanoarch (2013); Selection and Evaluation Committee, Institute of Basic Science, Korea (2015-);

Symposium Organizers: the focus session, “fundamental challenges in transport properties in nanostructures” at American Physical Society March Meeting, 2004. the focus session, “Thermal, thermoelectric and mass transport at nanoscale” at American Physical Society March Meeting, 2006. Guest editor of Solid State Communication (2007); Major advocator of Carbon

based electronics in Emerging Research Device-working group meeting (2008); Organizer for Graphene Week (2012), Workshop on Electron Interaction in Graphene (2013); Ho-Am Forum on Science 2014: 2-Dimensional quantum materials systems (2014); 2015 Winter Workshop on Quantum Materials in Condensed Matter Physics (2015); Winter Workshop on Topology and Quantum Numbers

Advisory Board: ITRS Workshop in 2008, International Advisory Board of ICPS 2010, 2012; Nanotube 2007, 2012, National High Magnet Laboratory External Advisory Committee 2013-,

Editorial: Associate Editor, Nano Letter, American Chemical Society (2011-), Guest Editor for special edition in Solid State Communication (2007, 2011).

Research Leadership: Columbia Nanoscience and Engineering Center, Thrust leader (2005-10), Functional Electronics and Nanoarchitectonics, Thrust leader (2006-11), Function Accelerated nanomaterial Engineering, Thrust leader (2011-), Columbia Energy Frontier Research Center, Thrust leader (2009-2014), Columbia Nanoelectronics beyond 2020, Team leader (2011-2014)

(vii) Collaborations and Other Affiliations

(a) Collaborators and Co-Editors (5 Years): Louis Brus (Columbia); S. H. Chun (Sejong); Andre Geim (Manchester); Tony Heinz (Columbia); James Hone (Columbia); L. Levitov (MIT); Charles Lieber (Harvard); Allan Macdonald (Austin); Colin Nuckolls (Columbia); Rick Osgood (Columbia); Hongkun Park (Harvard); Jiwoong Park (Cornell); Abhay Pasupathy (Columbia); Aron Pinczuk (Columbia); Dan Prober (Yale); Ken Shepard (Columbia); Joe Stroscio (NIST); Takashi Taniguchi (NIMS); Gyu-Chul Yi (SNU);

(b) Graduate Student Advisors: Charles M. Lieber (Harvard)

(c) Postgraduate-Scholar Sponsor: Paul L. McEuen (Berkeley, now at Cornell)

(viii) Student and Postdoctoral Fellow Advising

Graduate Thesis: Joshua P. Small (May 2006); Yuanbo Zhang (June 2006); Meninder Purewal (May 2008), Melinda Han (May 2010); Yuri Zuev (January, 2011); Yue Zhao (December 2011); Andrea Young (December 2011); Dmitri Efetov (May 2014); Fereshte Ghahari (July 2014); Patrick Maher (May 2015);

Graduate Thesis in Progress: Carlos Forsythe (Physics); Giselle Elbaz (Chemistry); Frank Zhao (Physics); Austin Cheng (Applied Physics); Xiaomeng Liu (Physics); Jesse Crosno (Applied Physics); Jing Shi (Physics); Katie Huang (Physics); Andy Joe (Physics);

Undergraduate: Jeremy Amai-Dolan (Haverford College), Laura Berzak (Dartmouth), Elizabeth Gabor (Columbia), Laura Newburgh (Barnard College), Nada Petrovic (Columbia), Kerstin Perez (Columbia Univ), Josh Wittenberg (Berkeley), William Pontius (Columbia), Ani Rabi (Columbia), Joel Chudow (Columbia); Asher Mullokandov (Columbia); Solomon Endrich (Columbia), Hechen Ren (Columbia); Charles Starr (Columbia); Steven Carr (Columbia); Minyong Han (Columbia); Giovanni Scuri (Columbia); Achim Harzheim (Harvard);

Post-doc: Byung Hee Hong (Associate Professor, Department of Chemistry, Seoul National University); Barbaros Oezylmaz (Assistant Professor, Department of Physics, National University of Singapore); Pablo Jarillo-Herrero (Assistant Professor, Department of Physics, MIT); Kirill Bolotin (Assistant Professor, Department of Physics, Vanderbilt University); Namdong Kim (Senior Research Scientist, POSTECH); Keunsoo Kim (Assistant Professor, Department of Physics, Sejong University); Young-Jun Yu (Research Scientist, ETRI); Paul

Cadden-Zimansky (Assistant Professor, Department of Physics, Bard College); Vikram Deshpande (Assistant Professor, Department of Physics, University of Utah); Jayakanth Ravichandran (Assistant Professor at University of Southern California); Amelia Barreiro (European Patent Office); Chulho Lee (Assistant Professor, Korea University); Jean-Damien Pillot (current); Martin Gustafsson (current); Ke Wang (current); Gil-Ho Lee (current); Hiroshi Idzuchi (current);

Visiting Scientists: Ju-young Lee (POSTECH, Korea), Stijn Goosen (DELFT, Netherlands), Juliana Brant (CNPq, Brazil); Niko Tombros (Univ. of Groningen)

(ix) Teaching

Fall, 2002, 2003, & 2004: Physics 1403, "Introduction to Classical and Quantum Waves"
Spring 2003, 2004, & 2005; Physics 1402, "Introduction to Electromagnetism and Optics"
Fall 2005, 2006, 2007: Physics 4021, "Introduction to Quantum Physics I"
Spring 2006, 2007, 2008: Physics 4022, "Introduction to Quantum Physics II"
Spring 2009, 2010, 2011, 2012: Physics G6082, "Condensed Matter Physics I"
Fall 2009, 2010, 2011: Physics C2601, "Classical and Quantum Waves"
Fall 2012, 2013: Physics W3007, "Electricity-Magnetism"
Spring 2013, 2014: Physics W3072, "Current Research Problems"

Fall 2014, 2015: Physics 15b, "Introductory Electromagnetism"

Spring 2015, 2016: Physics 181, "Statistical Mechanics and Thermodynamics"

(x) Outside Professional Activities

Here is the list of my outside professional activities:

*Associate Editor in Nano Letters (American Chemical Society) 1/1/2013-present:

This activity is a typical editorial service of the professional scientific journal including selecting reviewers and making editorial decisions.

*Visiting Chaired Professor in Seoul National University (SNU) and Ulsan National Institute of Science and Technology (UNIST), Korea 3/1/2012-present: I am visiting SNU for two weeks during late May and December, delivering special lecture series and interacting with faculty and students. I also visit UNIST once or twice a year to interact with students and faculty there for collaboration.