

## Hyoung Joon Choi, Curriculum Vitae, July 2004

### Address

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### Education

Ph. D. in Physics, Department of Physics, Seoul National University, Seoul, Korea, 2000  
M.S. in Physics, Department of Physics, Seoul National University, Seoul, Korea, 1994  
B.S. in Physics, Department of Physics, Seoul National University, Seoul, Korea, 1992

### Experience

Professor, School of Computational Sciences, Korea Institute for Advanced Study 2003 - present  
Miller Research Fellow, Department of Physics, Univ. of California, Berkeley, USA 2000 - 2003  
Postdoctoral Researcher, Center for Strongly Correlated Materials Research, Seoul Nat'l Univ. 2000

### Academic honors and awards

Miller Research Fellowship, University of California, Berkeley 2000 – 2003  
An Honor Prize, Graduate Student Research Award, Physics Research Division, Seoul Nat'l Univ. 2000  
Best Graduate Student Fellowship, Development Foundation, Seoul Nat'l Univ. 1994 – 1996

### Research interests

First-principles study of electronic transport in nanostructures.  
Theoretical investigation of superconducting properties of novel superconductors.  
*Ab-initio* calculation of physical properties of solids and molecules.

### Selected publications

Band structure and Fermi surface of electron-doped C<sub>60</sub> monolayers. *Science* **300**, 303-307 (2003).  
The origin of the anomalous superconducting properties of MgB<sub>2</sub>. *Nature* **418**, 758-760 (2002).  
Crossed nanotube junctions. *Science* **288**, 494-497 (2000).  
Broken symmetry and pseudogaps in ropes of carbon nanotubes. *Nature* **391**, 466-468 (1998).