

## Dohyung Park

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### CONTACT INFORMATION

Electrical & Computer Engineering  
The University of Texas at Austin  
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### RESEARCH INTERESTS

Machine Learning, Convex Optimization

### EDUCATION

**The University of Texas at Austin** August 2011 - Present  
Ph.D., Electrical & Computer Engineering  
• Current GPA : 4.0/4.0

**Korea Advanced Institute of Science and Technology** August 2008  
M.S., Electrical Engineering  
• GPA : 4.08/4.3

**Korea Advanced Institute of Science and Technology** August 2005  
B.S., Electrical Engineering with a minor in Computer Science  
• Magna Cum Laude (GPA 3.71/4.3)

### HONORS & AWARDS

Bronze medalist, Korean Science Olympiad 1998

Bronze medalist, Korean Olympiad in Informatics 2000

KAIST Academic Full Scholarship 2001 - 2005

KAIST Governmental Fellowship 2006 - 2008

### WORK EXPERIENCE

**Samsung Advanced Institute of Technology** August 2008 - July 2011  
*Research Staff*  
• Interference Alignment for Cellular Systems  
• Mobile Indoor Localization Systems

### TEACHING EXPERIENCE

**The University of Texas at Austin**  
*Teaching Assistant*  
• Large-scale Optimization Fall 2012  
• Communication Networks Spring 2012  
• Software Design and Implementation Fall 2011

**Korea Advanced Institute of Science and Technology**  
*Teaching Assistant*  
• Advanced Information Theory Spring 2008  
• Advanced Coding Theory Spring 2007

SELECTED  
COURSES

**Math** - Real Analysis, Probability and Stochastic Processes, Theory of Probability, Numerical Linear Algebra

**EECS** - Machine Learning, Advanced Machine Learning, Sparsity/Structure/Algorithms, Information Theory, Advanced Information Theory, Coding Theory, Advanced Coding Theory, Communication Systems, Advanced Communication Systems

**OR** - Linear Programming, Nonlinear Programming

PUBLICATIONS

[1] **Dohyung Park** and Sae-Young Chung, "Performance-complexity tradeoffs of rateless codes," in *Proc. IEEE International Symposium on Information Theory (ISIT)*, Toronto, Canada, July 2008.

[2] **Dohyung Park**, Joonsung Kang, and Eung Sun Kim, "Ad hoc indoor peer-to-peer tracking using relative location estimation," in *Proc. International Conference on Indoor Positioning and Indoor Navigation (IPIN)*, ETH Zurich, Switzerland, Sept. 2010.

[3] Bang Chul Jung, **Dohyung Park**, and Won-Yong Shin, "Opportunistic interference mitigation achieves optimal degrees-of-freedom in wireless multi-cell uplink networks," *IEEE Transactions on Communications*, Vol. 60, No. 7, pp. 1935-1944, July 2012.

[4] Namyoon Lee, **Dohyung Park**, and Young-Doo Kim, "Degrees of freedom on the K-user MIMO interference channel with constant channel coefficients for down-link communications," in *Proc. IEEE Global Communications Conference (GLOBECOM)*, 2009.

**Patents**

- **Dohyung Park**, Namyoon Lee, Young-Doo Kim, and Eung Sun Kim, "Communication system performing interference alignment and interference alignment method," US2011/0051837A1, Mar. 2011.
- **Dohyung Park**, Eung Sun Kim, and Joon Seong Kang, "Apparatus and method for estimating relative location," US2011/0270519A1, Nov. 2011.
- **Dohyung Park**, Sung Cheol Kim, and Eung Sun Kim, "Method and apparatus for expressing the accuracy of a measured location of a terminal," US2012/0040697A1, Feb. 2012.
- **Dohyung Park**, Eung Sun Kim, and Sung Cheol Kim, "Method of generating map, and method of measuring location of terminal using the map," US2012/0039316A1, Feb. 2012.
- Joon Seong Kang, Eung Sun Kim, and **Dohyung Park**, "Method and apparatus for estimating angle of arrival," US2011/0199263A1, Aug. 2011
- Namyoon Lee, **Dohyung Park**, and Young-Doo Kim, "Adaptive interference alignment precoding and decoding to prevent multi-cell interference," US2010/0248712A1, Sep. 2010.