Myung (Jin) Choi

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Education

Massachusetts Institute of Technology — Cambridge, MA

Ph.D. Candidate, Electrical Engineering and Computer Science — *Jun 2007 – Dec 2010 (expected)*
- Thesis title: *Hierarchical Graphical Models with Latent Variables*
- Research Assistant, Stochastic Systems Group (*Advisor: Alan Willsky*)
- Developed multiscale modeling framework to capture long-range correlations with sparse structure.
- Proposed probabilistic models to detect objects in images using hierarchical contextual information.
- Teaching Assistant, Course: Algorithms for Inference. Covers probabilistic inference and learning algorithms. Delivered recitations and created problem sets / exams.
- Relevant coursework (**GPA: 5.0/5.0**): Analytics of Finance; Finance Theory I; Microeconomic Theory and Public Policy; Discrete-Time Signal Processing; Stochastic Processes, Detection, and Estimation; Optimization Methods; Convex Analysis and Optimization

S.M. Electrical Engineering and Computer Science — *Sep 2005 – Jun 2007*
- Thesis title: *Multiscale Gaussian Graphical Models and Algorithms for Large-Scale Inference*
- Proposed multi-resolution models and algorithms to solve large-scale estimation problems efficiently.

Seoul National University — Seoul, Korea

B.S. Electrical Engineering — *Mar 2001 – Aug 2005*
- Top rank in the School of Engineering (**GPA : 4.26/4.30**)

University of California, Santa Barbara — Santa Barbara, CA

Extension student. — *Sep 2001 - Jun 2002*

Work Experience

D. E. Shaw & Co. — New York, NY

Quantitative Analyst Intern. — *May 2009 – Aug 2009*
- Applied machine learning techniques to estimate parameters in high-frequency stock trading.

Microsoft – Live Labs — Redmond, WA

Research Intern — *Jun 2007 – Aug 2007*
- Developed algorithms that automatically extract useful information from semi-structured text.

MIT Africa Information Technology Initiative — Nairobi, Kenya

Instructor. — *Jun 2006 – Jul 2006*
- As part of a five-member team, designed an intense six-week Java programming course and instructed 90 students at Strathmore University and Alliance High School.

Seoul National University – Multimedia Application Processor Lab — Seoul, South Korea

Undergraduate Research Assistant. — *Mar 2005 –Jul 2005*
- Applied a Markov chain analysis to quantify the performance of a frame interpolation algorithm.

Seoul National University – Signal Processing Lab — Seoul, South Korea

Undergraduate Research Assistant. — *Jan 2004 – Jul 2004*
- Designed a video database with improved key-frame extraction and sequence matching algorithms.

Selected Awards and Honors

Samsung Scholarship Foundation - Graduate Research Fellowship	2005 − 2009
Samsung HumanTech Paper Award, Silver Award	2005
Korea Foundation for Advanced Studies - Undergraduate Scholarship	2003 − 2004
Asian Pacific Mathematics Olympiad, Silver Medal	2000
Korean Mathematical Olympiad, Bronze Medal	2000

Skills

Computer: C/C++/C#, MFC, Java, Matlab, Python, Gawk, Shell script   **Language:** English, Korean

Leadership

MIT EECS REFS – Peer Mediator and Counselor	2008 − present
Co-president of Graduate Women in EECS, MIT	2006 − 2007
Co-chair of Diversity Committee, EECS Graduate Students Association, MIT	2006 − 2007

Publications

6 first author papers; 1 co-author paper; 1 first-author papers under review
A detailed list of publications is available upon request.