

YOUNGMIN CHO

Google Inc.
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EDUCATION

2006–2012 University of California, San Diego

Ph.D. in Computer Science

- **Advisor:** Lawrence Saul
- **GPA:** 4.0/4.0

1997–2001 Seoul National University (Seoul, KOREA)

B.S. *summa cum laude* in Computer Science and Engineering

- **Advisor:** Byoung-Tak Zhang
- **GPA:** 4.17/4.3 (Top rank in CSE department)

RESEARCH INTERESTS

Machine learning, kernel methods, deep learning, matrix factorization, optimization.

PUBLICATIONS

A. Senior, Y. Cho, and J. Weston (2012). **Learning improved linear transforms for speech recognition.** In *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP-12)*, to appear.

Y. Cho and L. K. Saul (2012). **Nonnegative matrix factorization for semi-supervised dimensionality reduction.** *submitted*.

Y. Cho and L. K. Saul (2012). **Analysis and extension of arc-cosine kernels for large margin classification.** Technical Report CS2012-0972, Department of Computer Science and Engineering, University of California, San Diego.

D. J. Hu, L. van der Maaten, Y. Cho, L. K. Saul, and S. Lerner (2010). **Latent variable models for predicting file dependencies in large-scale software development.** In J. Lafferty, C. K. I. Williams, J. Shawe-Taylor, R.S. Zemel, and A. Culotta (eds.), *Advances in Neural Information Processing Systems 23*, pages 865–873.

Y. Cho and L. K. Saul (2010). **Large-margin classification in infinite neural networks.** *Neural Computation* 22(10): 2678–2697.

Y. Cho and L. K. Saul (2009). **Kernel methods for deep learning.** In Y. Bengio, D. Schuurmans, J. Lafferty, C. K. I. Williams, and A. Culotta (eds.), *Advances in Neural Information Processing Systems 22*, pages 342–350.

Y. Cho and L. K. Saul (2009). **Learning dictionaries of stable autoregressive models for audio scene analysis.** In *Proceedings of the Twenty Sixth International Conference on Machine Learning (ICML-09)*, pages 169–176. Montreal, Canada.

Y. Cho and L. K. Saul (2009). **Sparse decomposition of mixed audio signals by basis pursuit with autoregressive models.** In *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP-09)*, pages 1705–1708. Taipei, Taiwan.

RESEARCH & INDUSTRY EXPERIENCES

- 2007–2012** University of California, San Diego
Graduate student researcher, Prof. Lawrence Saul's Lab.
- 2010–2010** Google Inc. (NY)
Summer intern. Worked on dimensionality reduction of speech features.
Hosted by Andrew Senior and Jason Weston.
- 2005–2006** Biointelligence Lab, Seoul National University (Seoul, KOREA)
Research intern.
- 2001–2004** Neowiz Corp. (Seoul, KOREA)
Software engineer & project manager.

TEACHING EXPERIENCES

- 2012–2012** University of California, San Diego
Teaching assistant, CSE 150 Introduction to Artificial Intelligence.
- 2010–2011** University of California, San Diego
Teaching assistant, CSE 250A Principles of Artificial Intelligence.

AWARDS & HONORS

- 2006–2010** Samsung Scholarship Award
Samsung Scholarship.
- 2006–2007** Excellence Award
Department of Computer Science and Engineering, UC San Diego.
- 2001** Seoul National University Alumni Association of the College of Engineering Award
(given for the first rank among Computer Science and Engineering graduates.)
- 1999–** Samsung Frontiers Membership
Organization supported by Samsung to promote academic exchanges.
- 1999–2001** Excellent GPA Scholarship Award
Seoul National University.

SKILLS

Matlab, C/C++, Java, PHP, Perl, HTML, Oracle, LaTeX, Unix, Windows.

REFERENCES

- Lawrence Saul, University of California, San Diego.
- Andrew Senior, Google.