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Electrical and Computer Engineering
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EDUCATION

- 9/1999–6/2006 **Stanford University**, Stanford, California
Ph.D. in Electrical Engineering, June 2006
(Dissertation: Gaussian Feedback Capacity)
M.S. in Statistics, June 2006
M.S. in Electrical Engineering, June 2001
- 3/1992–2/1996 **Seoul National University**, Seoul, Korea
B.S. in Electrical Engineering, February 1996

WORK EXPERIENCE

- 7/2006–present **Assistant Professor**
Department of Electrical and Computer Engineering, UC San Diego
- 6/2000–6/2006 **Research Assistant**
Information Systems Laboratory, Stanford University
(Research advisor: Thomas M. Cover)
- 1/2001–6/2006 **Teaching Assistant**
Department of Electrical Engineering, Stanford University
(EE278 Statistical Signal Processing, EE376A/B, EE477 Information Theory)
- Summer 2002 **Visiting Research Assistant**
Signal and Information Processing Laboratory, ETH, Zurich, Switzerland
(Research advisor: Amos Lapidoth)
- 3/1996–7/1999 **Technical Staff**
Research and Development, Tong Yang Systems Corporation, Seoul, Korea
(Major project: Seoul Incheon International Airport)
- 3/1995–7/1995 **Teaching Assistant**
School of Electrical Engineering, Seoul National University
(420.320 Digital Systems Laboratory)

JOURNAL PUBLICATIONS

- [P1] Arak Sutivong, Mung Chiang, Thomas M. Cover, and Young-Han Kim, “**Channel capacity and state estimation for state-dependent Gaussian channels,**” *IEEE Transactions on Information Theory*, vol. IT-51, no. 4, pp. 1486–1495, April 2005.
- [P2] Daniel Hösl, Young-Han Kim, and Amos Lapidoth, “**Monotonicity results for coherent MIMO Rician channels,**” *IEEE Transactions on Information Theory*, vol. IT-51, no. 12, pp. 4334–4339, December 2005.
- [P3] Young-Han Kim, “**Feedback capacity of the first-order moving average Gaussian channel,**” *IEEE Transactions on Information Theory*, vol. IT-52, no. 7, pp. 3063–3079, July 2006.
- [P4] Young-Han Kim, “**A counterexample to Cover’s $2P$ conjecture on Gaussian feedback capacity,**” *IEEE Transactions on Information Theory*, vol. IT-52, no. 8, pp. 3792–3793, August 2006.
- [P5] Young-Han Kim, “**Feedback capacity of stationary Gaussian channels,**” submitted for publication in *IEEE Transactions on Information Theory*. ([arXiv:cs.IT/0602091](https://arxiv.org/abs/cs.IT/0602091))

CONFERENCE PROCEEDINGS

- [C1] Arak Sutivong, Thomas M. Cover, Mung Chiang, and Young-Han Kim, “**Rate vs. distortion trade-off for channels with state information,**” *Proceedings of IEEE International Symposium on Information Theory*, p. 226, Lausanne, Switzerland, June/July 2002.
- [C2] Young-Han Kim and Amos Lapidoth, “**On the log determinant of non-central Wishart matrices,**” *Proceedings of IEEE International Symposium on Information Theory*, p. 54, Yokohama, Japan, June/July 2003.
- [C3] Young-Han Kim, Arak Sutivong, and Styrmir Sigurjónsson, “**Multiple user writing on dirty paper,**” *Proceedings of IEEE International Symposium on Information Theory*, p. 534, Chicago, Illinois, June/July 2004.
- [C4] Styrmir Sigurjónsson and Young-Han Kim, “**On multiple user channels with causal state information at the transmitters,**” *Proceedings of IEEE International Symposium on Information Theory*, pp. 72–76, Adelaide, Australia, September 2005.
- [C5] Young-Han Kim, “**Feedback capacity of the first-order moving average Gaussian channel,**” *Proceedings of IEEE International Symposium on Information Theory*, pp. 416–420, Adelaide, Australia, September 2005.
- [C6] Young-Han Kim, “**On the feedback capacity of stationary Gaussian channels,**” invited paper, *Proceedings of 43rd Annual Allerton Conference on Communication, Control, and Computing*, Monticello, Illinois, September 2005.
- [C7] Young-Han Kim, “**Feedback capacity of stationary Gaussian channels,**”, *Proceedings of IEEE International Symposium on Information Theory*, pp. 59–63, Seattle, Washington, July 2006.

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