

Introductory Courses

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Faculty

SATISH IYENGAR
PROFESSOR AND CHAIR

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Dr. Iyengar shares his appointment with the Department of Psychiatry.



Education:

- PhD, Statistics, Stanford University, 1982
- BA, Mathematics, Harvard University, 1978

Research Interests:

- Stochastic models
- Meta-analysis
- Multivariate analysis and distribution
- Applications in neuroscience
- Spike train data analysis

Courses:

- STAT 2712, Probability Theory 2, Spring 2009
- STAT 2711, Probability Theory 1, Fall 2008
- STAT 2381, Supervised Statistical Consulting, Spring 2008
- STAT 2391, Advances in Applied Statistics 1, Fall 2007

Selected Publications:

- Czanner, G., Gruen, S., Iyengar, S. (2005). Theory of the snowflake plot and its relations to higher-order analysis methods. *Neural Computation*, 17, 1456-1479.
- Krimer, L., Zaitsev, A., Czanner, G., Kroner, S., Gonzalez-Burgos, G., Povysheva, N., Iyengar, S., Barrioneuvo, G., Lewis, D. (2005). Clusteranalysis-based physiological classification and morphological properties of inhibitory neurons in layers 2-3 of monkey dorsolateral prefrontal cortex. *Journal of*

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Neurophysiology, 94(5), 3009-3022.

- Iyengar, S., Liao, Q. (1997). Modeling neural activity using the generalized inverse Gaussian distribution. *Biological Cybernetics*, 77, 289--295.
- Bridge, J., Iyengar, S., Salary, C., Barbe, R., Birmaher, B., Pincus, H., Ren, L., Brent, D. (2007). Balancing efficacy and risk in the use of pediatric antidepressant treatment: A meta-analysis of clinical response and risk for reported suicidal ideation and suicide attempts in randomized placebo-controlled trials. *Journal of the American Medical Association*, 297(15), 1683-1696.