

ROBERTO CARTA

Department of Statistics & Actuarial Science
University of Central Florida
Orlando, FL 32816-2370

Fax: (407) 823-3930
Office phone: (407) 823-3427
Email: rcarta@mail.ucf.edu

EDUCATION

Ph.D., Statistics, Carnegie Mellon University, 2002.

Thesis: “Bayesian Semiparametric Inference for Statistical Models Using Mixtures”

Advisors: Rob Kass and Larry Wasserman

POSITION

Tenure-Track Assistant Professor, Statistics & Actuarial Science Dept., University of Central Florida.

RESEARCH INTERESTS

Bioinformatics; Bayesian Statistics; Data Mining; Statistical Neuronal Modeling; Decision Theory; Markov Chain Monte Carlo Methods; Sequential Design; Clinical Trials.

PAPERS

Zhang, L., Wu, C., Carta, R., and Zhao, H. (2007) Free energy of DNA duplex formation on short oligonucleotide microarrays, *Nucleic Acid Research*, **35**(3):e18.

Wu, C., Zhao H., Baggerly K., Carta R., Zhang, L. (2007) Short oligonucleotide probes containing G-stacks display abnormal binding affinity on microarrays, *Accepted by Bioinformatics*.

Wu, C., Carta R., Zhang, L. (2005) Sequence dependence of cross hybridization on short oligo microarrays, *Nucleic Acid Research*, **33**(9):e84.

Zhang, L., Wu, C., Carta R., Baggerly, K., Coombes, K.R. (2004) Response to Preprocessing of oligonucleotide array data, *Nat. Biotechnol.*, **22**(6):658.

Mazucheli J., Achcar, J.A., Kass, R.E., and Carta R. (2003) Use of Mixture of Distributions for the Error in Regression Models for Lifetime Data, *Brazilian Journal of Probability and Statistics*, **15**, pp. 155-168.

Ventura, V., Carta, R., Kass, R.E., Gettner, S.N., and Olson, C.R. (2002) Statistical Analysis of Temporal Evolution in Single-Neuron Firing Rates, *Biostatistics*, **3**, 1, pp. 1-20.

Olson, C.R., Gettner, S.N., Ventura, V., Carta, R., and Kass, R.E. (2000) Neuronal Activity in Macaque Supplementary Eye Field During Planning of Saccades in Response to Pattern and Spatial Cues, *J. Neurophysiology*, **84**, 1369-1384.