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## **Tate Kubose, Ph.D.**

### **Professional Profile**

Dr. Kubose's work utilizes his knowledge of human perceptual and cognitive abilities and limitations, which he applies to the study of safety-related behavior and risk. He has studied the patterns of human behavior in a wide variety of accidents such as those involving slips, trips and falls, drowning, burns, and asphyxiation. Dr. Kubose has also examined driver behavior, evaluated warnings and safety information, and analyzed injury and accident patterns associated with various consumer products, industrial operations, and medical devices. He has experience with research methods involving large-scale databases, questionnaire and survey administration, and testing of human subjects.

Dr. Kubose completed a Ph.D. in cognitive psychology at the University of California, Los Angeles and held postdoctoral positions at Columbia University and the University of Illinois, Urbana-Champaign. During that time his research focused on topics such as the effects of speech activities on driving performance, analysis of errors in the medical field, cognitive analysis of infusion pump usability, development of cognitive models of decision making, and computational modeling of analogical reasoning. Prior to joining InSciTech, Dr. Kubose was employed at Exponent Failure Analysis Associates in Menlo Park, CA.

### **Academic Credentials and Professional Honors**

Ph.D. (Cognitive Psychology), University of California, Los Angeles, 2000

M.A. (Psychology), University of California, Los Angeles, 1996

B.S. (Psychology), University of Illinois (*magna cum laude*), 1994

University of Illinois Honors, 1994

Phi Beta Kappa, University of Illinois, 1994

Dean's List, University of Illinois, 1990–1994

NIH Postdoctoral Fellow, University of Illinois, 2003–2006

NLM Postdoctoral Fellow, Columbia University, 2000–2002

Collegium of Teaching Fellows, University of California, Los Angeles, 1999

## Peer Reviewer

Applied Cognitive Psychology  
Human Factors and Ergonomics Society

## Publications

An analysis of low speed pedestrian crashes involving electric-powered and combustion-powered vehicles. Proceedings of the 53<sup>rd</sup> Annual Meeting of the Human Factors and Ergonomics Society, 2009, 2029 - 2033. J. A. Droll, T. Kubose, S. Huang, D.T. Aharoni, & D. E. Young.

Methodological considerations for using the English XL tribometer for post-hoc slip-and-fall evaluations. Proceedings of the 52<sup>nd</sup> Annual Meeting of the Human Factors and Ergonomics Society, Santa Monica, CA, 2008. T. Kubose, D. Krauss.

Comparison of subjective ratings of slipperiness to the measured slip resistance of real-world walking surfaces. International Conference on Slips, Trips and Falls, From Research to Practice, 2007. M. Kuzel, D. Krauss, M. Moralde, T. Kubose.

Car talk, car listen. In: Automaticity and Control in Language Processing. A. S. Meyer, L.R. Wheeldon and A. Krott (eds), Hove, England, Psychology Press, 2007, 21–42. J.K. Bock, G.S. Dell, S.M. Garnsey, A.F. Kramer, T. Kubose.

Detecting transient changes in dynamic displays: The more you look, the less you see. Human Factors, 2006; 48: 759–773. W.R. Boot, A.F. Kramer, E. Becic, D.A. Wiegmann, T. Kubose.

The effects of speech production and speech comprehension on simulated driving performance. Applied Cognitive Psychology, 2006; 20:43–64. T. Kubose, K. Bock, G.S. Dell, S.M. Garnsey, A.F. Kramer, J. Mayhugh.

Heuristic evaluation of infusion pumps: Implications for patient safety in Intensive Care Units. International Journal of Medical Informatics, 2004; 73:771–77. M.J. Graham, T. Kubose, D. Jordan, J. Zhang, T.R. Johnson, V.L. Patel.

Using usability heuristics to evaluate patient safety of medical devices. Journal of Biomedical Informatics, 2003; 36:23–30. J. Zhang, T.R. Johnson, V.L. Patel, D.L. Paige, T. Kubose.

The role of textual coherence in incremental analogical mapping. Journal of Memory and Language, 2002; 47:407–435. T. Kubose, K.J. Holyoak, J. Hummel.

Perceptual learning modules in mathematics and science instruction. In: Teaching and Learning in a Network World. P. Hoffman P and D. Lemke (eds), IOS Press, Amsterdam, The Netherlands, 2000, 169–176. J.A. Wise, T. Kubose, N. Chang, A. Russel, P.J. Kellman.

## **Presentations and Published Abstracts**

Aging and the effects of conversation with a passenger or caller on simulated driving performance. Proceedings, Driving Assessment, Stevenson, WA, 2007. E. Becic, T. Kubose, A.F. Kramer, G.S. Dell, S.M. Garnsey, K. Bock.

The effects of speech production and speech comprehension on simulated driving performance. Proceedings, Driving Assessment, Rockport, ME, 2005. T. Kubose, K. Bock, G.S. Dell, S.M. Garnsey, A.F. Kramer, J. Mayhugh.

Cognitive models of HIV decision-making in young adults. Proceedings, American Medical Informatics Association Symposium, San Antonio, TX, 2002. T. Kubose, L. O'Sullivan, V. Patel.

Development of an ontology to model medical errors, information needs, and the clinical communication space. Proceedings, American Medical Informatics Association, Symposium, Washington, DC, 2001, 672. P.D. Stetson, L.K. McKnight, S. Bakken, C. Curran, T. Kubose, J.J. Cimino.

Assessment of information needs for informed, coordinated activities in the clinical environment. Proceedings, American Medical Informatics Association Symposium, 948, Washington, DC, 2001. T. Kubose, J. Cimino, V. Patel.

Coherence and mapping: tests of the LISA model of analogy. Proceedings, 41<sup>st</sup> Annual Meeting of the Psychonomic Society, New Orleans, LA, 2000. T. Kubose, K.J. Holyoak, J.E. Hummel.

Mapping asymmetries in analogical problem solving. Proceeding, 12<sup>th</sup> Annual Conference for the Cognitive Science Society, Madison, WI, 1998. T. Kubose, K.J. Holyoak, J.E. Hummel.

Control processes in analogical mapping: Tests of the LISA model. Proceedings, 38<sup>th</sup> Annual Conference for the Psychonomic Society, Philadelphia, PA, 1997. T. Kubose, K.J. Holyoak, J.E. Hummel.