

Franklin P. Tamborello, II, PhD, CSP

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Employment History	<ul style="list-style-type: none">• <i>Software Quality Engineer</i> (2015 – present), Omni AI Corp. Houston, TX.• <i>National Research Council Research Associate</i> (2012 – 2015), U. S. Naval Research Laboratory. Washington, DC.• <i>Chief Scientist</i> (2011 – present, currently part-time), Cogscnt, LLC.
Education & Certification	<ul style="list-style-type: none">• Ph.D. in Human-Computer Interaction: Data Science methods to study human error in safety-critical systems. Rice University, Houston, TX.• Board of Certified Safety Professionals: Certificate #CSP-29164.
Selected Projects, Sole Developer	<ul style="list-style-type: none">• National Institute of Standards and Technology Measurement Science and Engineering Grant 70NANB15H252: A Data Science exploratory approach to understanding why some people sometimes fall for phishing attacks.• National Institute of Standards and Technology Measurement Science and Engineering Grant 60NANB12D134: Data Science for understanding touchscreen mobile computing's impact on users' workflow.• Data Science methods, tools, and Big Data to test Omni AI Corp's unsupervised learning agent and computer vision system including stochastic Data generation, inter-rater reliability testing.• <i>Ice Cream Computer</i>. A naïve Bayesian Machine Learning dynamic web application with Mongo Big Data Base persistence.• <i>Postcompletion Error & UNRAVEL</i> Data Science simulation studies of why people are prone to forget to certain task steps.• <i>Rutils</i> (sole developer), collection of Data Science scripts and utilities, including exploration of Washington DC's Vision Zero traffic safety GIS
Selected Publications and Presentations	<p>Tamborello, FP and Trafton, JG. 2016. Human Error as an Emergent Property of Action Selection and Task Place-Holding. <i>Human Factors: The Journal of the Human Factors and Ergonomics Society</i>. DOI: https://doi.org/10.1177/0018720816672529</p> <p>Tamborello, F. P., Peres, S. C., Nguyen, V. D., & Fleetwood, M. D. (2013). Peer-mediation of the adoption of efficient software interaction methods: A model based on priming. <i>Computers in Human Behavior</i>, 29(6), 2595-2602. doi:10.1016/j.chb.2013.06.031</p> <p>Tamborello, F. P., & Greene, K. K. (2015). Memory and Motor Processes of Password Entry Error. Presented at the 2015 International Annual Meeting of the Human Factors and Ergonomics Society. Pasadena, CA.</p> <p>Tamborello, FP, Trafton, JG, & Altmann, EA. (2015). Memory processes of sequential action selection. Presented at the 37th Annual Cognitive Science Society Meeting. Pasadena, CA.</p>
Techniques, Languages, & Environments	<p>Descriptive Statistics and Visualization; Inferential Statistical Testing (Non- & Parametric); Monte Carlo Simulation; Regression (Single/Multiple Linear, Logistic); Data processing; Signal Detection Theory; (Stochastic) Gradient Descent; Principal Components Analysis; K-means Clustering. R, Python, Lisp, SPSS, Matlab/Octave, Haskell, Java, HT/XML, Javascript. Emacs; Mac OS; Linux.</p>