

June 2015

Rick Thomas

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Professional Preparation

Carnegie Mellon University	Decision Science	Post-Doc 2004-2005
Kansas State University	Exp. Psych./ Decision Science	Ph.D. 2004
Carnegie Mellon University	Decision Science	Pre-Doc 2003-2004
Kansas State University	Exp. Psych./ Decision Science	M.S. 2001
University of Oklahoma	Psychology	B.S. 1997

Current Appointments

2014-Present Associate Professor of Engineering Psychology, Georgia Institute of Technology

Past Appointments

- 2011-2014 Associate Professor of Cognitive Psychology, University of Oklahoma
- 2009-2014 Director Decision Processes Laboratory, University of Oklahoma
- 2005-2011 Assistant Professor of Cognitive Psychology, University of Oklahoma
- 2004-2005 Post-Doctoral Researcher, Department of Social & Decision Sciences, Carnegie Mellon University
- 2003-2004 Pre-Doctoral Researcher, Department of Social & Decision Sciences, Carnegie Mellon University
- 2002 LARSS Fellow at the National Aeronautics and Space Administration (NASA), Langley Research Center
- 1998-2002 Graduate Research Assistant, Kansas State University

Consulting

- 2011-Present Cognitive Science Consultant for Atmospheric Technology Services Company (ATSC)
- 2002-2003 Human Factors Consultant for Research Triangle Institute International's Center for Flight Systems Engineering.

Current & Pending Awards

Collaborative Research: A Memory-Based Account of Cue Generation and Prediction, *National Science Foundation (NSF)* Grant (Funded, SES-1426831). Principal Investigator. Collaborators Drs. Michael Dougherty and Dan Buttaccio. (2014-2017). \$218,750

Research Support Team for Weather Technology in the Cockpit, *Federal Aviation Administration (FAA)*, Principal Investigator. Industry Partners/Collaborators, Atmospheric Technology Services Company (ATSC) (Funded, 2014-2018). \$3,000,000 (\$323,509)

The Impact of Uncertainty Information on Tornado Warning Response: Developing Recommendations for Warning Best Practices, *OAR Office of Weather and Air Quality (OWAQ)*, Co-PI, (Funded, 2012-2014). \$75,110

Previous Grants & Work Experience

Evaluation of Performance-Based Description of Expertise in Air Traffic Control, Graduate Researcher on two *Federal Aviation Administration* (US-DOT) Grants (1998-01). Principal Investigator: Dr. James Shanteau.

Cognitive and Social Influences on Team Performance: Psychological Skills in Technological Environments, Graduate Researcher on two *Office of Naval Research* (ONR) Grants (1999-02). Principal Investigator: Dr. Clive Fullagar.

Evaluation of a Performance-Based Description of Expertise in Air Traffic Control-III, Graduate Researcher on *Federal Aviation Administration* (FAA) Grant (2000-02). Principal Investigator: Dr. James Shanteau.

Landing GA aircraft in IMC using VFR skills: Supporting Expert Performance by SATS Pilots, LARSS Fellow at the *National Aeronautics and Space Administration* (NASA) Langley Research Center, and *Research Triangle Institute's Office of Flight Systems Engineering* (2002).

The Influence of Cockpit Weather Information Displays on Pilot Performance, Human Factors Consultant for *Research Triangle Institute International's Center for Flight Systems Engineering* (2002-2003).

Cognitive, Biological, and Computational Analyses of Automaticity in Complex Cognition, *Post-Doctoral Researcher for Office of Naval Research* (ONR) Grant (2003-2005). Principal Investigators: Dr. Marcel Just, Dr. Walter Schneider & Dr. Cleotilde Gonzalez.

Performance Evaluation of Expert Team Members, *Consultant*, U. S. Air Force Office for Scientific Research. Grant Number: #FA9550-04-1-0230. Principal Investigator: David J. Weiss.

Collaborative Proposal: The Effects of Dynamic Task Characteristics on Medical Decision Making, *National Science Foundation* (NSF) Grant (2007-2010 with one-year extension). Principal Investigator. Collaborators Drs. Cleotilde Gonzalez and Robert Hamm.

Weather Decision Making in the Cockpit, *Federal Aviation Administration* (FAA), Principal Investigator. Industry Partners/Collaborators, Atmospheric Technology Services Company (ATSC) (2009-2014). \$3,300,000 (\$478,165)

The Temporal Dynamics of Hypothesis Generation and Maintenance, *National Science Foundation* (NSF) Grant (SES-1024650). Principal Investigator. Collaborators Dr. Eddy Davelaar and Nick Lange. (Funded, 2010-2014). \$343,288

Professional Affiliations (Past Ten Years)

Society for Judgment and Decision Making; Brunswik Society; Society for Mathematical Psychology; Human Factors and Ergonomics Society; Association for Psychological Science; Psychonomics Society

Awards and Honors

NASA LARSS Summer Fellowship, NASA Langley Research Center, Research Triangle Institute's Flight Systems Engineering Office, Summer 2002.

NASA/FAA SATS Student Design Competition: Systems Innovation Category, Member 1st Place Design Team, Spring 2002. *Landing GA aircraft in IMC using VFR skills: Supporting Expert Performance by SATS Pilots*.

Harry Helson Award, Outstanding Research, Kansas State University (1999).

Outstanding Psychology Student - Statistics Award (TOPS), U. of Oklahoma, (1997).

Pi Kappa Phi National Honor Society, 1997.

Psi Chi National Honor Society for Psychology, 1996.

Professional Service

Ad-Hoc Reviewer:

Journal of Experimental Psychology: General; Social Influence; Handbook of Applied Cognition; Organizational Behavior and Human Decision Processes; Medical Decision Making; Journal of Experimental Psychology: Applied; National Science Foundation; Society for Judgment & Decision Making; Multivariate Behavioral Research; Journal of Cognitive Engineering and Decision Making; Public Policy Review; NSF-HSD, NSF-DRMS; NSF-PAC Panel Member; Nomination Board Member for the APA Division 21 Nickerson Best Paper Award; Psychological Methods; Behavioral Research Methods; Memory & Cognition;

Editorial Boards:

Frontiers in Cognitive Science

Associate Editor:

Frontiers in Cognitive Science

Previous Editorial Boards:

Journal of Experimental Psychology: Applied

Conference Activities:

Program Organizer, Oklahoma-Kansas Judgment & Decision Making (OKJDM) Conference, April, 2006-2011, 2013-2014, held at the University of Oklahoma Health Sciences Center / Department of Family and Preventative Medicine, Oklahoma City, Oklahoma.

General Sessions Co-Chair, Human Factors & Ergonomics Society

Ad-Hoc Reviewer, Society for Judgment & Decision Making (SJDm) Conference, Nov. , 2008, Chicago, IL.

Invited Workshops:

Invited Attendee, Bridging the Cyber, Physical and Social Worlds Workshop, National Science Foundation (NSF), May, 2009, Embassy Suites, Kansas City, MI.

Working Groups:

FAA's Strategic Planning Team (SPT) for Research Evolution Plan (REP) for Weather Uncertainty (WxU).

Publications

Dougherty, M. R. P., Gettys, C. F., & Thomas, R. P. (1997). The role of mental simulation in judgments of likelihood. *Organizational Behavior and Human Decision Processes*, 70, 135 -148.

Shanteau, J. & Thomas, R. P. (2001) Fast and frugal heuristics: What about unfriendly environments. *Behavioral & Brain Science*, 22, 5.

Thomas, R. P., Willems, B., Shanteau, J., Raacke, J., & Friel, B. M., (2001). Measuring the performance of expert controllers. *Proceedings from the 45th Annual Meeting of the Human Factors and Ergonomics Society*, 286-290. Minneapolis/St. Paul, MN.

Friel, B., Thomas, R. P., Raacke, J., & Shanteau, J. (2001). Utilizing CWS to track the longitudinal development of expertise. *Proceedings from the 45th Annual Meeting of the Human Factors and Ergonomics Society*, 1810-1814. Minneapolis/St. Paul, MN.

- Thomas, R. P., Willems, B., Shanteau, J., Raacke, J., & Friel, B. M. (2001). CWS applied to controllers in a high-fidelity simulation of ATC. *Proceedings from the 11th Annual International Symposium on Aviation Psychology*. Columbus, OH.
- Friel, B. M., Thomas, R. P., Shanteau, J., & Raacke, J. (2001). CWS applied to an air traffic control simulation task (CTEAM). *Proceedings from the 11th Annual International Symposium on Aviation Psychology*. Columbus, OH.
- Shanteau, J., Thomas, R. P., Friel, B., Weiss, D. J., & Pounds, J. (2001). Identifying expertise without a gold standard: Four applications. *Proceedings from the 11th Annual International Symposium on Aviation Psychology*. Columbus, OH.
- Thomas, R. P., & Shanteau, J., (2002). Laplacean demons to ecologically rational beings: Can simple heuristics make us smart? *Journal of Applied Cognitive Psychology*. 16, 359-366.
- Shanteau, J., Thomas, R. P., Friel, B., Raacke, J., Farris, S., Weiss, D. J., & Pounds, J. (2002). Can decision errors be predicted before they happen? Application of a new measure of skilled performance. *The Brunswik Society Newsletter*, 23-24.
- Shanteau, J., Weiss, D.J., Thomas, R. P., & Pounds, J. (2002). Evaluation of a new performance-based measure of expertise. *European Journal of Operations Research*, 136, 253-263.
- Shanteau, J., Weiss, D. J., & Thomas, R. P. (2003). The puzzle of expertise: Approaches and issues in defining who is (and who is not) an expert. In Schneider, S. L., & Shanteau, J. (Eds.), *Emerging perspectives on judgment and decision research*. New York: Cambridge University Press.
- Elgin, P. D., & Thomas, R. P. (2004). *An integrated decision-making model for categorizing weather products and decision aids*, NASA/TM-2004-212990.
- Burgess, M. A., & Thomas, R. P. (2004). *The effect of NEXRAD image looping and national convective weather forecast product on pilot decision making in the use of a cockpit weather information display*, NASA/CR-2004-212655.
- Thomas, R. P., (2004). A memory theoretic account of hypothesis generation, evaluation, and testing. *Dissertation Abstracts International: Section B: The Sciences and Engineering*, Vol 65(7-B), 2005. pp. 3741.
- Shanteau, J., & Thomas, R. P. (2005). Can regression analysis detect synergisms in negative correlated environments? *The Brunswik Society Newsletter*, v. 20, 15-17.
- Shanteau, J., Friel, B. M., Thomas, R. P., & Raacke, J. (2005). Development of expertise in a dynamic decision-making environment. In Betsch, T., & Haberstroh, S. (Eds.), *The routines of decision making*. Mahwah, NJ: Erlbaum.
- Gonzalez C., Thomas, R. P., Vanyukov, P. (2005). The relationships between cognitive ability and performance in dynamic decision making. *Intelligence*, 33(20), 169-186.
- Dana, J., & Thomas, R. P. (2006). In defense of clinical judgment...and mechanical combination? *Journal of Behavioral Decision Making*, 19, 413-428.
- Dougherty, M. R. & Thomas, R. (2007). Diagnostic hypothesis generation and human judgment. Symposium on Cognitive Decision Theory. *Proceedings of the Cognitive Science Society*.
- Dougherty, M. R., Franco-Watkins, A., & Thomas, R. P. (2008). The psychological plausibility of fast and frugal heuristics. *Psychological Review*.115(1), 199-211.
- Dougherty, M. R., Thomas, R. P., & Franco-Watkins, A. (2008). Postscript: Vague heuristics revisited. *Psychological Review*. *Psychological Review*.115(1), 211-213.
- Thomas, R. P., & Dougherty, M. R. P., Sprenger, A., & Harbison, I. (2008). Diagnostic hypothesis generation and human judgment. *Psychological Review*. 115(1), 155-185.

- Gonzalez, C., & Thomas, R. P. (2008). The role of automaticity in dynamic decision environments. *Journal of Cognitive Engineering and Decision Making*, 2(4), 328-348.
- Weiss, D. J., Brennen, K., Thomas, R. P., & Kirlik, A. (2009). Criteria for performance evaluation. *Judgment and Decision Making*, 4(2), 164-174.
- Dougherty, M. R. P., & Thomas, R. P. (2009). MINERVA-DM. In Kattan, Michael W. (Ed.), *Encyclopedia of Medical Decision Making*.
- Gonzalez, C., Thomas, R. P., & Madhavan, P. (2009). The effects of conjunctive search and response mappings on automatic performance in a complex visual task. In D. H. Andrews, R. P. Herz, & M. Wolf (Eds.), *Human factors issues in combat identification* (pp. 85-98). Surrey, UK: Ashgate Publishing Limited.
- Dougherty, M. R. P., Thomas, R. P., & Lange, N. (2010). Toward an integrative theory of hypothesis generation, probability judgment, and information search. Volume 52 of *The Psychology of Learning and Motivation*.
- Shanteau, J., Friel, B., Thomas, R. P., Raacke, J., & Weiss, D. J. (2010). Assessing expertise when performance exceeds perfection. In E. S. Patterson & J. Miller (Eds.), *Macrocognition metrics and scenarios: Design and evaluation for real-world teams*. Burlington, VT: Ashgate Publishing.
- Lange, N., Thomas, R. P., Dana, J., & Dawes, R. M. (2010). Top down influences on auditory perception. *Law & Human Behavior*, Published Online April 2010, DOI 10.1007/s10979-010-9226-4.
- Thomas, R. P., Hahn, S., Lange, N.D., Buttaccio, D., Alberts, T., Dougherty, M.R., & Rose, L. (2010). Target identification and assessment in visual intelligence, surveillance, & reconnaissance. *Proceedings of the Missile Defense Sensors, Environments and Algorithms*; published by the Military Sensing Information Analysis Center (SENSIAC), a Department of Defense chartered Information Analysis Center (not for public release).
- Sprenger, A. M., Dougherty, M. R., Atkins, S. M., Franco-Watkins, A. M., Thomas, R. P., Lange, N., & Abbs, B. (2011). Implications of cognitive load for hypothesis generation and probability judgment. *Frontiers in Psychology-Cognitive Science*, 2, 1-15
- Dougherty, Michael R. & Thomas, R. P. (2012). Robust decision making in a nonlinear world. *Psychological Review*, 119(2), 321-344.
- Lange, N.D., Thomas, R.P., & Davelaar E.J. (2012). Data acquisition dynamics and hypothesis generation. In: N. Rußwinkel, U. Drewitz, J. Dzaack H. van Rijn & F. Ritter (Ed.s). *Proceedings of the 11th International Conference on Cognitive Modelling*, Universitaetsverlag der TU Berlin.
- Lange, N.D, Thomas, R.P., & Davelaar, E.J. (2012) Temporal dynamics of hypothesis generation: Influences of data serial order, data consistency, and elicitation timing. *Frontiers in Psychology: Cognitive Science* 3:215. doi: 10.3389/fpsyg.2012.00215
- Lange, N.D., Thomas, R.P., Buttaccio, D.R. & Davelaar, E.J. (2012) Catching a glimpse of working memory: Top-down capture as a tool for measuring the content of the mind. *Attention, Perception, & Psychophysics*, 74(8),1562-7. doi: 10.3758/s13414-012-0378-9.Lange
- Lange, N.D., Thomas, R.P., Buttacio, D.R., Illingworth, D.A. & Davelaar, E.J. (2013) Working memory dynamics bias the generation of beliefs: The influence of data presentation rate on hypothesis generation. *Psychonomic Bulletin & Review*, (20)1,171-176. doi: 10.3758/s13423-012-0316-9.
- Lange, N.D., Davelaar, E.J., & Thomas, R.P. (2013) Data Acquisition Dynamics and Hypothesis Generation. *Cognitive Systems Research*. Invited Submission for Special Issue: Best of International Conference on Cognitive Modeling doi: 10.1016/j.cogsys.2012.12.006

Buttaccio, D. R., Lange, N. D., Hahn, S., Thomas, R. P., Davelaar, E. J. (2013). Explicit awareness supports conditional visual search in the retrieval guidance paradigm. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

Lange, N. D., Thomas, R. P., Buttaccio, D. R., & Davelaar, E. J. (2013). Snapshots of working memory: Using early eye movements to capture temporal dynamics. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

Tidwell, J. W., Dougherty, M. R., Chrabaszcz, J. R., Thomas, R. P., & Mendoza, J. L. (2013). What counts as evidence for working memory training? Problems with correlated gains and dichotomization. *Psychonomic Bulletin & Review*, 1-9.

Lange, N. D., Buttaccio, D. R., Davelaar, E. J., & Thomas, R. P. (2014). Using the memory activation capture (MAC) procedure to investigate the temporal dynamics of hypothesis generation. *Memory & Cognition*, 42(2), 264-274.

Buttaccio, D. R., Lange, N. D., Hahn, S., & Thomas, R. P. (2014). Explicit awareness supports conditional visual search in the retrieval guidance paradigm. *Acta Psychologica*, 145, 44-53.

Erica, C. Y., Sprenger, A. M., Thomas, R. P., & Dougherty, M. R. (2014). When decision heuristics and science collide. *Psychonomic Bulletin & Review*, 1-15.

Sanborn, A. N., Hills, T. T., Dougherty, M. R., Thomas, R. P., Erica, C. Y., & Sprenger, A. M. (2014). Reply to Rouder (2014): Good frequentist properties raise confidence. *Psychonomic Bulletin & Review*, 1-3.

Bowden, K. A., Heinselman, D.M., Kingfield, D.M., & Thomas, R.P. (2014). The phased array radar innovative sensing experiment 2013. Extended Abstracts, 30th Conference on Environmental Information Processing Technologies. American Meteorological Society, Atlanta, GA.

Thomas, R., Dougherty, M.R., & Buttaccio, D. R. (2014). Memory constraints on hypothesis generation and decision-making. *Current Directions in Psychological Science*, 23, 4, 264-270

Buttaccio, D. R., Lange, N. D., Thomas, R. P., & Dougherty, M. R. (2014). Using a model of hypothesis generation to predict eye movement in a visual search task. *Memory & Cognition*, DOI: 10.3758/s13421-014-0463-5

Lange, N.D., Buttaccio, D.R., Sprenger, A.M., Harbison, I., Dougherty, M.R. & Thomas, R.P. (2014) The essential nature of memory underlying judgment, decision making, and visual search., In Thompson, V. & Feeney, A. (Eds.) *Reasoning as Memory*.

Hua, L., Ling, C., & Thomas, R. (2014). Representations of radar image's timestamp in the cockpit. *Proceedings of the Human Factors & Ergonomics Society*, Chicago, IL: Human Factors and Ergonomics Society.

Dougherty, M. R., Thomas, R. P., Brown, R. P., Chrabaszcz, J. S., & Tidwell, J. W. (2015). An Introduction to the General Monotone Model with Application to Two Problematic Data Sets. *Sociological Methodology*, 0081175014562589.

Bowden, K. A., Heinselman, P. L., Kingfield, D. M., & Thomas, R. P. (2015). Impacts of Phased Array Radar Data on Forecaster Performance during Severe Hail and Wind Events. *Weather and Forecasting*.

Tidwell, J. W., Buttaccio, D., Chrabaszcz, J. S., Dougherty, M. R., & Thomas, R. P. (in press). *Sources of bias in judgment and decision making*. To appear in J. Dunlosky's (ed). *Handbook on Metacognition*. Oxford University Press.

Illingworth, D. A., & Thomas, R. P. (in press). Price as information: Incidental search costs affect decisions to terminate information search and valuations of information sources. *Proceedings of the Human Factors and Ergonomics Society*.

Hua, L., Ling, C., & Thomas, R. P. (in press). Representation of Radar Image's TimeStamp in the Cockpit. *Proceedings of the Human Factors and Ergonomics Society*.

Other Publications

Raddatz, K. R., Elgin, P. D., Prey, C. R., & Thomas, R. P. (2002). *Landing GA aircraft in IMC using VFR skills: Supporting Expert Performance by SATS Pilots*. Design Proposal Submitted to the NASA General Aviation Programs Office (GAPO).

Invited Presentations

Thomas, R. P., & Pounds, J., (May, 1999) *CWS applied to Controller Teamwork Evaluation and Assessment Methodology (CTEAM)*. Invited presentation at the Civil Aeromedical Institute (CAMI). Oklahoma, City, OK.

Thomas, R. P., Pounds, J., Shanteau, J., (July, 1999). *Measuring expert performance in dynamic complex environments*. Invited presentation at the University of Oklahoma Institute of Technology Conference. Norman, OK.

Thomas, R. P., & Shanteau, J. (March, 2000). *Measuring the performance of experts in complex dynamic environments*. Invited presentation at the Hughes Aeronautical Technical Center, Federal Aviation Administration. Atlantic City, NJ.

Thomas, R. P., Raacke, J. D., Friel, B. M., & Pounds, J., (September, 2000). *CWS applied to full performance level air traffic controllers*. Invited presentation at the Civil Aeromedical Institute (CAMI). Oklahoma, City, OK.

Thomas, R. P., Willems, B., Raacke, J. D., Friel, B. M., Shanteau, J., & Pounds, J. (October, 2000). Application of CWS to high-fidelity air traffic control simulated environments. *Invited presentation at the Hughes Aeronautical Technical Center Federal Aviation Administration*. Atlantic City, NJ.

Friel, B. M., Thomas, R. P., Raacke, J. D., & Shanteau, J. (July, 2001). Longitudinal development of expertise. *Invited presentation at the Civil Aeromedical Institute (CAMI)*. Oklahoma City, OK.

Shanteau, J., Weiss, D., Thomas, R. P., Friel, B. M., Raacke, J. D., Farris, J. S., & Crow, J. (July, 2001). Application of a continuous performance-based description of expertise in an air traffic control. *Invited presentation at the Civil Aeromedical Institute (CAMI)*. Oklahoma City, OK.

Thomas, R. P., Friel, B. M., Raacke, J. D., & Shanteau, J. (July, 2001). Mental models and controller performance. *Invited presentation at the Civil Aeromedical Institute (CAMI)*. Oklahoma City, OK.

Shanteau, J., Weiss, D., Thomas, R. P., Raacke, J. D., Friel, B. M., Farris, J. S., & Crow, J. (October, 2001). Workshop on the use of the CWS (Cochran-Weiss-Shanteau) index of expertise. *Invited presentation at the Civil Aeromedical Institute (CAMI)*. Oklahoma, City, OK.

Thomas, R. P. (April, 2003). The decision quality of fast and frugal heuristics in multiattribute choice environments. *Invited presentation, Department of Psychology, University of Maryland*. College Park, MD.

Thomas, R. P. (April, 2003). Measuring the performance of air traffic controllers. *Invited presentation, Department of Social & Decision Sciences, Carnegie Mellon University*. Pittsburgh, PA.

Gonzalez, C., & Thomas, R. (August, 2003). Development of automaticity in complex, dynamic tasks. *Invited presentation, Office of Naval Research Cognitive Architectures meeting, University of Pittsburgh, Pittsburgh, PA*.

Thomas, R. P. (March, 2005). Memory theoretic account of hypothesis generation, evaluation, and testing. *Invited presentation, Department of Psychology, University of Maryland*. College Park, MD.

Thomas, R. P., Dougherty, M. R. P., & Sprenger, A. (July, 2006). A model of hypothesis generation, evaluation and testing. *Paper presented at the Fifth Annual Summer Interdisciplinary Conference (ASIC) in Åndalsnes, Norway*.

Dougherty, Thomas & Sprenger (2006). Diagnostic Hypothesis Generation and Human Judgment. *University of Canterbury, Christchurch New Zealand*.

Thomas, R. P. (2008). Identifying and aiding experts. University of Oklahoma. *Undergraduate Research Experience in Meteorology Symposium.. National Weather Center in Norman, Oklahoma.*

Fan, X. & Thomas, R. P. (2008). Integrating Bayesian Inference with Semantics. *Supercomputing Symposium*, University of Oklahoma, Norman, OK.

Thomas, R. P. & Colleagues (Feb., 2010). HyGene: A Model of Diagnostic Hypothesis Generation, Evaluation and Testing. *Invited presentation, Department of Psychology, Wichita State University.* Wichita, KS.

Thomas, R. P. & Colleagues (May, 2011). Diagnostic Hypothesis Generation in Medicine, Intelligence, Surveillance, & Reconnaissance. Federation of Associations in Behavioral Sciences (FABBS) Capitol Hill Exhibition, Rayburn House Office Building in Washington, D. C.

Professional Presentations and Posters

Thomas, R. P., Dougherty, M. R. P., Gettys, C. F., & Ogden, E. E. (April, 1997) *The conjunction fallacy as a memory phenomenon.* Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting. Norman, OK.

Dougherty, M. R. P., Thomas, R. P., Gettys, C. F., & Ogden, E. E. (Nov., 1998). *The conjunction fallacy as a memory phenomenon.* Poster presented at the Society for Judgment and Decision Making Conference. Philadelphia, PA.

Thomas, R. P., Dougherty, M. R. P., & Shanteau, J. (April, 1998) *The boundary effect and its influence on the likelihood of conjunctive events.* Poster presented at the Oklahoma-Kansas Judgment and Decision Making meeting. Stillwater, OK.

Thomas, R. P., Shanteau, J., Weiss, D., Pounds, J. (February 1998) *You have to be an expert to understand the above.* Paper presented at the 29th Annual Bayesian Conference. LA, CA.

Thomas, R. P., & Shanteau, J., (April, 1999) *Evaluating a performance-based measure of expertise in an ATC microworld environment.* Paper presented at the Oklahoma-Kansas Judgment and Decision Making conference. University of Oklahoma Center for Family and Preventative Medicine. Oklahoma City, OK.

Worley, M. A., Thomas, R. P., Bailey, L. L. (May, 1999) *The emergence of team sector management strategies.* Poster presented at the 10th Annual International Symposium on Aviation Psychology Conference. Columbus, OH.

Thomas, R. P., Pounds, J., & Shanteau, J., (November, 1999) *Measuring performance in dynamic complex environments.* Poster presented at the Society for Judgment and Decision Making (SJDM) conference. LA, CA.

Thomas, R. P., & Shanteau, J. (August, 1999) *Evaluating a performance-based measure of expertise using an Air Traffic Control task.* Poster presented at the Subjective Probability, Utility, and Decision Making (SPUDM) Conference. Mannheim, Germany.

Thomas, R. P., & Shanteau, J. (August, 1999) *Measuring the performance of experts who work in dynamic complex environments.* Paper presented at the Subjective Probability, Utility, and Decision Making (SPUDM) Conference. Mannheim, Germany.

Shanteau, J., Weiss, D. J., & Thomas, R. P. (August, 1999) *A performance-based measure of expertise: Three applications.* Paper presented at the Subjective Probability, Utility, and Decision Making (SPUDM) Conference. Mannheim, Germany.

Shanteau, J., Weiss, D. J., Thomas, R., & Pounds, J. (September, 1999). *Performance-based measures of expertise: How can you tell if someone is (or is not) an expert?* Paper presented at the EURO-Conference on Human-Centered Processes, Brest, France.

Thomas, R. P., Shanteau, J., Weiss, D., Pounds, J. (February, 2000). *How good is CWS.* Paper presented at the 30th Annual Bayesian Conference. LA, CA.

Thomas, R. P., & Shanteau, J. (February, 2000). *Fast and frugal heuristics: What about unfriendly decision environments*. Paper presented at the 30th Annual Bayesian Conference. LA, CA.

Thomas, R. P., & Shanteau, J. (April, 2000). *How good is one-reason decision making in unfriendly decision environments?* Paper presented at the Oklahoma-Kansas Judgment and Decision Making conference. Civil Aeromedical Institute (CAMI), Federal Aviation Administration. Oklahoma City, OK.

Thomas, R. P., Friel, B. M., Shanteau, J., & Pounds, J. (April, 2000). *Tracking the development of competent skill in dynamic complex environments*. Poster presented at the Oklahoma-Kansas Judgment and Decision Making conference. Civil Aeromedical Institute (CAMI). Oklahoma City, OK.

Thomas R. P., & Shanteau, J., (August, 2000). *Fast and frugal heuristics: What about unfriendly decision environments*. Paper presented at the Mathematical Psychology Conference. Kingston, Canada.

Shanteau, J., Weiss, D. J., Thomas, R. P., & Pounds, J. (August, 2000). *Analysis of expertise: Application to medical decision making*. Paper presented at the Mathematical Psychology Meeting, Kingston, Canada.

Hogancamp, S., & Thomas, R. P. (April, 2001). *Team mental models and team performance*. Poster presented at the Oklahoma-Kansas Judgment and Decision Making meeting. Manhattan, KS.

Thomas, R. P., Raacke, J. R., & Shanteau, J. (April, 2001). *How to measure the performance of experts*. Poster presented at the Oklahoma-Kansas Judgment and Decision Making meeting. Manhattan, KS.

Friel, B. M., Thomas, R. P., & Shanteau, J. (April, 2001). *CWS applied to longitudinal development of expertise*. Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting. Manhattan, KS.

Raacke, J., Thomas, R. P., & Friel, B. M., (April, 2001). *Comparison of individual and team performance in a simulated ATC task: A CWS analysis*. Poster presented at the Oklahoma-Kansas Judgment and Decision Making meeting. Manhattan, KS.

Friel, B. M., Thomas, R. P., Shanteau, J., & Raacke, J. (March, 2001). *CWS assessment in an ATC microworld environment*. Paper presented at the International Symposium on Aviation Psychology. Columbus, OH.

Thomas, R. P., Willems, B., Shanteau, J., Raacke, J., & Friel, B. M., (March, 2001). *CWS applied to controllers in a high fidelity simulation of ATC*. Paper presented at the International Symposium on Aviation Psychology. Columbus, OH.

Shanteau, J., Thomas, R. P., Friel, B., Weiss, D. J., & Pounds, J. (March, 2001). *Identifying expertise without a gold standard: Four applications*. Paper presented at the 11th Annual International Symposium on Aviation Psychology. Columbus, OH.

Shanteau, J., Thomas, R. P., & Friel, B. M. (February, 2001). *Development of expertise in a complex decision-making environment*. Paper presented at the Conference on Experienced-Based Decision Making. Heidelberg, Germany.

Friel, B., & Thomas, R. P. (February, 2001). *Expertise is what my teachers taught me*. Paper presented at the 31th Annual Bayesian Conference. Los Angeles, CA.

Thomas, R. P., & Shanteau, J. (February, 2001). *Is fast and frugal fruitful?* Paper presented at the Bayesian Research Conference meeting. Los Angeles, CA.

Shanteau, J., & Thomas R. P. (February, 2001). *If pigs could fly—the elusive search for “little e”*. Paper presented at the 31th Annual Bayesian Conference. Los Angeles, CA.

Thomas, R. P., Willems, B., Shanteau, J., Raacke, J., & Friel, B. M., (October, 2001). *Measuring the performance of expert controllers*. Paper presented at the 45th Annual Meeting of the Human Factors Conference. Minneapolis, MN.

- Friel, B., Thomas, R. P., Raacke, J., & Shanteau, J. (October, 2001). *Longitudinal development of expertise*. Paper presented at the 45th Annual Meeting of the Human Factors Conference. Minneapolis, MN.
- Friel, B.M., Thomas, R. P., Raacke, J., & Shanteau, J. (November, 2001). *CWS applied to the longitudinal development of expertise*. Poster presented at the 2001 annual meeting of the Society for Judgment and Decision Making. Orlando, FL.
- Raacke, J. D., Thomas, R. P., Friel, B. M., Nygaard, N., & Shanteau, J. (November, 2001). *Longitudinal development of team expertise in a dynamic stimulus environment*. Poster presented at the 2001 annual meeting of the Society for Judgment and Decision Making. Orlando, FL.
- Thomas, R. P., Willems, B., Shantau, J., Raacke, J. D., & Friel, B. M., (November, 2001). *Identifying the performance of expert controllers in a high-fidelity simulation of ATC*. Poster presented at the 2001 annual meeting of the Society for Judgment and Decision Making. Orlando, FL.
- Friel, B. M., Thomas, R.P., Raacke, J. D. & Shanteau, J. (February, 2002). *Planes, training and automaticity: Measuring training efficacy in ATC simulations with CWS*. Paper presented at the 40th Annual Bayesian Conference. Los Angeles, CA.
- Raacke, J. D., Thomas, R. P., Friel, B. M. & Shanteau, J. (February, 2002). *There is no "I" in team performance: An analysis of teams in a dynamic stimulus environment*. Paper presented at the 40th Annual Bayesian Conference. Los Angeles, CA.
- Shanteau, J., Weiss, D., Thomas, R. P., Friel, B. M., Raacke, J. D., & Pounds, J. (February, 2002). *A beautiful mind is a terrible thing to waste*. Paper presented at the 40th Annual Bayesian Conference. Los Angeles, CA.
- Thomas, R. P. (February, 2002). *Decision quality of fast & frugal heuristics in friendly and unfriendly decision environments*. Paper presented at the 40th Annual Bayesian Conference. Los Angeles, CA.
- Shanteau, J., Fullagar, C., Friel, B., Raacke, J. Thomas, R., Weiss, D. J., and Pounds, J. (June, 2002). *Evaluation of expertise in a dynamic decision-making task*. Paper presented at the Fifth International Military Applications Symposium, University of Memphis.
- Friel, B. M., Thomas, R. P., Raacke, J. D., & Shanteau, J. (June, 2002). *Assessing skill development with the CWS measure of expert performance*. Poster presented at the 14th annual meeting of the American Psychological Society. New Orleans, LA.
- Raacke, J. D., Thomas, R. P., Friel, B. M., & Shanteau, J. (June, 2002). *Development of team performance in a dynamic stimulus environment*. Poster presented at the 14th annual meeting of the American Psychological Society. New Orleans, LA.
- Raddatz, K. R., Elgin, P., Prey, C. M., & Thomas, R. P. (2002, August). *Landing GA aircraft in IMC using VFR skills: Supporting expert performance by SATS pilots*. Invited presentation at the NASA Technical Forum at the Experimental Aviation Association Convention, Oshkosh, WI.
- Friel, B. M., Thomas, R. P., Raacke, J. D., & Shanteau, J. (November, 2002). *Exploring strategy development with the CWS index of expert performance*. Poster presented at the 2002 annual meeting of the Society for Judgment and Decision Making. Kansas City, MO.
- Raacke, J. D., Thomas, R. P., Friel, B. M., & Shanteau, J. (November, 2002). *Analysis of team performance: Is an aggregate appropriate?* Poster presented at the 2002 annual meeting of the Society for Judgment and Decision Making. Kansas City, MO.
- Shanteau, J., Thomas, R. P., Friel, B. M., & Raacke, J. D. (November, 2002). *Can errors be predicted before they happen?* Paper presented at the 43rd annual meeting of the Psychonomic Society, Kansas City, MO.
- Shanteau, J., & Thomas, R. P. (January, 2004). *Development of Expert Teams*. Presentations at the University of

Pompeu-Fabra (Barcelona, Spain) & the University of Toulouse (Toulouse, France).

Shanteau, J., Friel, B., Thomas, R., & Raacke, J. (November, 2004). *Assessing training in an air traffic control microworld*. Paper presented at the 20th annual international meeting of the Brunswik Society. Minneapolis, MN.

Thomas, R. P., & Dougherty, M. R. P. (November, 2004). *Memory theoretic account of hypothesis generation, evaluation and testing*. Paper presented at the 2004 annual meeting of the Society for Judgment and Decision Making. Minneapolis, MN.

Thomas, R. P., Dougherty, M. R. P., Sprenger, A. (May, 2005). *Diagnostic hypothesis generation and human judgment*. Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting, Oklahoma City, OK.

Gonzalez, C., & Thomas, R. (June, 2005). *Automaticity development and decision making in complex, dynamic tasks*. Office of Naval Research Cognitive Architectures meeting at Carnegie Mellon University, Pittsburgh, PA.

Thomas, R. P., Dougherty, M. R. P., & Sprenger, A. (January, 2006). *HYGENE: The cleanest model in town*. Paper presented at the 44th Annual Edwards Bayesian Research Conference in Los Angeles, CA.

Thomas, R. P., Dougherty, M. R. P., & Franco-Watkins, A. (April, 2006). *Does more knowledge really lead to less accurate inference?* Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting, Oklahoma City, OK.

Thomas, R. P., Dougherty, M. R. P., & Sprenger, A. (July, 2006). *A model of hypothesis generation, evaluation and testing*. Invited Talk presented at the Fifth Annual Summer Interdisciplinary Conference (ASIC) in Åndalsnes, Norway.

Dougherty, M. R. P., Sprenger, A., & Thomas, R. P. (July, 2006). *Violations of set theoretical assumptions as a result of error prone memory processes*. The 4th International Conference on Memory, Sydney Australia.

Dougherty, M. R. P., Thomas, R. P., & Sprenger, A. (July, 2006). *Invited Talk: Diagnostic Hypothesis Generation and Human Judgment*. University of Canterbury, Christchurch New Zealand.

Gonzalez, C., Thomas, R. P., Lim, J., Vrbic, C., & Madhavan, P. (Oct., 2006). *MEDIC: A tool to study physicians' cognition and decision making in medical diagnosis*. Conference Poster. The 20th Annual Meeting of the Society for Medical Decision Making. Pittsburgh, PA.

Thomas, R. P., Dougherty, M. R. P., & Franco-Watkins, A. (Nov., 2006). *Ecological constraints on inferences from recognition memory: Why less isn't more*. The 22nd Annual International Meeting of the Brunswik Society. Houston, Texas.

Weiss, D. J., Thomas, R. P., Miller, S., & Kirlik, A. (Nov., 2006). *Measuring performance without (and with) an external standard*. The 22nd Annual International Meeting of the Brunswik Society. Houston, Texas.

Weiss, D. J., Thomas, R. P., Miller, S., & Kirlik, A. (Jan., 2007). *How to improve your golf score*. Paper presented at the 45th Annual Edwards Bayesian Research Conference in Los Angeles, CA.

Lange, N., Thomas, R. P., Dana, J., & Dawes, R. M. (April, 2007). *Earwitness Misinterpretations: Top-Down Biases of Auditory Evidence*. Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting, Oklahoma City, OK.

Dougherty, M. R. P., & Thomas, R. P. (August, 2007). *Diagnostic Hypothesis Generation & Human Judgment*. Symposium on Cognitive Decision Theory: Developing models of real-world decision behavior. Paper presented at the 29th meeting of the Cognitive Science Society, Nashville TN. 1 - 4, 2007.

Lange, N., Thomas, R. P., Dana, J., & Dawes, R. M. (Nov., 2007). *Earwitness Misinterpretations: Top-Down Biases of Auditory Evidence*. Poster presented at the 2007 annual meeting of the Society for Judgment and Decision Making. Long Beach, CA.

Thomas, R. P., Dougherty, M. R. P., & Franco-Watkins. (Jan., 2008). *The good, the bad, and the ugly: Fast und Frugal mit en Bugel*. Paper presented at the 46th Annual Edwards Bayesian Research Conference in Fullerton, CA.

Thomas, R. P., & Dougherty, M. R. P. (April, 2008). *Diagnostic hypothesis generation and information search*. Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting, Oklahoma City, OK.

Fan, J. X., & Thomas, R. P. (April, 2008). *Comparison process at retrieval (CPR): Memory theoretic account of relative judgment*. Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting, Oklahoma City, OK.

Dougherty, M. R. P., & Thomas, R. P. (July, 2008). *The mediating role of memory on judgment and decision making*. Paper presented at the Society for Mathematical Psychology 30th Annual Conference. Washington DC.

Dougherty, M. R. P., Atkins, S., & Thomas, R. P. (2008). *The mediating role of retrieval and attentional control on probability judgment*. Annual Meeting of the Psychonomic Society. Chicago, IL.

Lange, N., Thomas, R. P., & Dougherty, M. R. P. (Nov, 2008). *Memory theoretic account of hypothesis generation and hypothesis testing*. Paper presented to the Society for Judgment and Decision Making. Chicago, IL.

Fan, X. & Thomas, R. P. (Jan, 2008). Integrating Bayesian Inference with Semantics. *Supercomputing Symposium*, Norman, OK.

Fan, X. J. & Thomas, R. P., (Nov, 2008). *Comparison process at retrieval model of relative judgment*. Poster presented to the Society for Judgment and Decision Making. Chicago, IL.

Fan, J. X., & Thomas, R. P. (Jan, 2009). *Comparison process at retrieval (CPR): Memory theoretic account of relative judgment*. Paper presented at the 47th Annual Edwards Bayesian Research Conference in Fullerton, CA.

Lange, N., Thomas, R. P., & Dougherty, M. R. P. (April, 2009). *Memory theoretic account of hypothesis generation and hypothesis testing*. Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting, Oklahoma City, OK.

Fan, J. X., & Thomas, R. P. (Nov., 2009). *Comparison process at retrieval (CPR): Memory theoretic account of relative judgment*. Paper presented to the Society for Judgment and Decision Making. Boston, MA.

Lange, N. & Thomas, R. P. (Nov., 2009). *Memory theoretic account of hypothesis generation and testing: Effects of sampling biases and base rates*. Poster presented to the Society for Judgment and Decision Making. Boston, MA.

Lange, N., & Thomas, R. P., (May, 2010). *Catching a glimpse of working memory*. Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting, Oklahoma City, OK.

Thomas, R. P., Hahn, S., Lange, N.D., Buttaccio, D., Alberts, T., Dougherty, M.R., & Rose, L. (Oct. 2010). *Target identification and assessment in visual intelligence, surveillance, & reconnaissance*. Paper to be presented as the MSS Missile Defense Sensors, Environment and Algorithms, Orlando, FL.

Lange, N., & Thomas, R. P. (Nov., 2010). Temporal dynamics underlying hypothesis generation. Paper presented at the Annual Meeting of the Society for Judgment and Decision Making, St. Louis, MO.

Lange, N., Thomas, R. P., & Davelaar, E. (Nov, 2010). Item specific memory activation in visual search and the flexible use of working memory contents. Poster to be presented at the 51st Annual Meeting of the Psychonomics Society, St. Louis, MO.

Thomas, R. P. & Colleagues (May, 2011). Diagnostic Hypothesis Generation in Medicine, Intelligence, Surveillance, &

Reconnaissance. Federation of Associations in Behavioral Sciences (FABBs) Capitol Hill Exhibition, Rayburn House Office Building in Washington, D.C.

Thomas, R. P., Lange, N., Alberts, T., Buttaccio, D., Dougherty, M.R., Fagg, A. H., & Reggia, J. (May, 2011). Target Recognition in Visual Intelligence, Surveillance, and Reconnaissance. 68th Automatic Target Recognition Working Group, Air Force Laboratory, Dayton, OH.

Lange, N., & Thomas R. P. (May, 2011). *Data acquisition dynamics and hypothesis generation*. Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting, Oklahoma City, OK.

Thomas, R. P., & Dougherty M. R. (May, 2011). *Prediction in a monotone world: The general monotone model (GeMM)*. Paper presented at the Oklahoma-Kansas Judgment and Decision Making meeting, Oklahoma City, OK.

Dougherty, MR, & Thomas, RP (July, 2011). *Tools to theory and back again: Robust prediction in a monotonic world*. Advanced Summer Institute on Cognition (ASIC), Caldes de Boi, Spain.

Lange, N. D., Thomas, R. P., Davelaar, E. (Nov., 2011). *Dynamic Hypothesis Generation: Effects of Data (In)Consistency and Response Mode*. Poster presented at the Annual Meeting of the Society for Judgment and Decision Making in Seattle, WA.

Lange, N. D., Thomas, R. P., & Davelaar, E. J. (2012). Data acquisition and hypothesis generation. In N. Russwinkel, U. Drewitz, & H. van Rijn (Eds.), Paper presented at the 11th International Conference on Cognitive Modeling. Berlin, Germany.

Thomas, R., Dougherty, M.R., & Lawrence, A., (May, 2012). Robust Decision Making in a Non-Linear World. Paper presented the 2012 Oklahoma-Kansas Judgment and Decision Making meeting Conference, Manhattan, KS.

Dougherty, MR., Thomas, R., Brown, R. (June, 2012). The deceptive nature of data and the search for (in)valid scientific conclusions. Paper presented the 2012 Conference on Cognitive and Decision Science, June 2, 2012 University of Maryland, College Park MD.

Lange, N.D., Thomas, R.P., & Davelaar, E.J. (April 2012) *Temporal dynamics of hypothesis generation: The influences of serial order, data consistency, and response mode*. Talk presented at TeaP (abbrev. for "Tagung experimentell arbeitender Psychologen"). Mannheim, Germany.

Lange, N.D., Thomas, R.P., Buttaccio, D.R., & Davelaar, E.J. (November, 2012) *A Novel Methodology to Measure the Content of the Mind: Using Top-Down Capture to Measure the Content of the Mind*. Presentation accepted for the 53rd Annual Meeting of the Psychonomics Society. Minneapolis.

Buttaccio, D.R., Lange, N.D., Hahn, S., & Thomas, R.P. (November, 2012) *Hypothesis Generation Supports Visual Search: The Influence of Alternative Outcomes and Working Memory*. Poster presented at the 53rd Annual Meeting of the Psychonomics Society. Minneapolis.

Martin, A., Thomas, R. P., Lange, N. D. (November, 2012). *The influences of working memory and learning on hypothesis testing and information search*. Poster presented at the Annual Meeting of the Society for Judgment and Decision Making in Minneapolis, Minnesota.

Lawrence, A. M., Thomas, R. P., & Dougherty, M. R. (November, 2012). *Modeling Monotonic Relationships: A Comparison of OLS, GeMM, and OMR*. Poster presented at the Annual Meeting of the Society for Judgment and Decision Making in Minneapolis, Minnesota.

Dougherty, M. R., Thomas, R. P., Brown, R. (November, 2012). Robust Decision Making in a Nonlinear World. Poster presented at the Annual Meeting of the Society for Judgment and Decision Making in Minneapolis, Minnesota.

Yu, E.C., Dougherty, M. R., Sprenger, A.M., & Thomas, R.P. (November, 2012) *When Decision Heuristics and Science Collide*. Paper presented at the Annual Meeting of the Society for Judgment and Decision Making in Minneapolis,

Minnesota.

Chrabaszcz, J. S., Dougherty, M. R., Sprenger, A.M., Yu, E., Thomas, R. P. Lawrence, A.M. (November, 2012). *Using heuristic models to predict utterly random events*. Paper presented at the Annual Meeting of the Society for Judgment and Decision Making in Minneapolis, Minnesota.

Illingworth, D. A., Lange, N. D., Thomas, R. P., Buttaccio, D.R., Davelaar, E. J. (November, 2012). *Working Memory Dynamics Bias the Generation of Beliefs: The Influence of Data Presentation Rate on Diagnostic Hypothesis Generation*. Poster presented at the Annual Meeting of the Society for Judgment and Decision Making in Minneapolis, Minnesota.

Davelaar, E.J., Lange, N.D., Thomas, R.P., & Buttaccio, D.R. (2013). *A Novel Methodology to Measure the Content of the Mind: Using Top-Down Capture to Investigate the Dynamics of Hypothesis Generation*. Talk presented at the 24th British Oculomotor Group Meeting. Kingston upon Thames, England.

Buttaccio, D. R., Lange, N. D., Hahn, S., Thomas, R. P., Davelaar, E. J. (2013). Explicit awareness supports conditional visual search in the retrieval guidance paradigm. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), Poster presented at the 35th Annual Conference of the Cognitive Science Society. Berlin, Germany.

Lange, N. D., Thomas, R. P., Buttaccio, D. R., & Davelaar, E. J. (2013). Snapshots of working memory: Using early eye movements to capture temporal dynamics. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), Paper presented at the 35th Annual Conference of the Cognitive Science Society. Berlin, Germany.

Bowden, K. A., Heinselman, D.M., Kingfield, D.M., & Thomas, R.P. (2014). The phased array radar innovative sensing experiment 2013. Paper presented at the 30th Conference on Environmental Information Processing Technologies. Atlanta, GA.

Thomas, R. & Illingworth, D. (2014). Memory constraints on hypothesis generation and decision-making. Paper presented the 2014 Oklahoma-Kansas Judgment and Decision Making meeting Conference held at the Center for Preventative and Family Medicine University of Oklahoma Health Sciences Center, Oklahoma City, OK.

Illingworth, D. & Thomas, R. (2014). Decision to terminate external information search. Paper presented the 2014 Oklahoma-Kansas Judgment and Decision Making meeting Conference held at the Center for Preventative and Family Medicine University of Oklahoma Health Sciences Center, Oklahoma City, OK.

Lawrence-Huizenga, A., Thomas, R., & Dougherty, M.R. (2014). Non-monotonic modification to the General Monotone Paper presented the 2014 Oklahoma-Kansas Judgment and Decision Making meeting Conference held at the Center for Preventative and Family Medicine University of Oklahoma Health Sciences Center, Oklahoma City, OK.

Hua, L., Ling, C., & Thomas, R. (2014). *Representations of radar image's timestamp in the cockpit*. Paper presented at the Human Factors & Ergonomics Society, Chicago, IL.

Lawrence-Huizenga, A., Thomas, R., & Dougherty, M. R. (2014). *Extension of the General Monotone Model to Non-Monotonic Data*. Poster presented at the Annual Meeting of the Society for Judgment and Decision Making in Long Beach, CA.

Dougherty, M.R., Tidwell, J. W., Chrabaszcz, J. S., & Thomas, R. (2014). *A (partial) solution to the problem of flexibility in data analysis and researcher degrees of freedom*. Poster presented at the Annual Meeting of the Society for Judgment and Decision Making in Long Beach, CA.

Illingworth, D. & Thomas, R. (2014). *Metacognitive Mechanisms of External Search Termination Decisions*. Poster presented at the Annual Meeting of the Society for Judgment and Decision Making in Long Beach, CA.

Thomas, R., Lawrence-Huizenga, & Dougherty, M.R. (2014). *A memory-based account of cue generation and predictive inference*. Poster presented at the Annual Meeting of the Society for Judgment and Decision Making in Long Beach, CA.

Buttaccio, D., Lange, N.D., Thomas, R. & Dougherty, M.R. (2014). Using a model of hypothesis generation to predict eye movements in a visual search task. Poster presented at the Annual Meeting of the Psychonomics Society in Long Beach, CA.

Research Interests

Decision Theory & Cognitive Decision Theory:

- *Applications of Memory Theory and Cognitive Modeling to Judgment and Decision Making*
- *Development and Evaluation of Mathematical Models of Judgment and Choice*

Measurement, Analysis, & Applications to Expertise:

- *Development and Evaluation of Psychological Measurement and Model Testing Techniques in Behavioral Research*
- *Analysis and Measurement of Expertise*
- *Development and Evaluation of Decision Support Systems and Artificial Intelligence*

Teaching Experience

Instructor: Judgment Processes (U & G); Quantitative/Mathematical Models of Behavior (U & G); General Psychology (U); Cognitive Psychology (U & G); Research Methods (U); Cognitive Science (G); Capstone Survey of Fields (U)

Collaborators

Atmospheric Technology Service Company (ATSC); William Beasley (University of Oklahoma/ Howard Live Oak); Ryan Brown (OU); Jason Dana (Yale University); Eddy Davelaar (University of Birkbeck); Robyn Dawes (Carnegie Mellon University); Michael R. P. Dougherty (University of Maryland); Kelvin Droegemeier (University of Oklahoma); Todd Eischeid (Booz-Allen-Hamilton); Andrew Fagg (University of Oklahoma); Ana Franco-Watkins (Auburn University); Brain Friel (University of Delaware); Coty Gonzalez (Carnegie Mellon University); Scott Gronlund (University of Oklahoma); Robert Hamm (University of Oklahoma Health Sciences Center); Isaiah Harbison (University of Maryland); Nicole Judice-Campbell (University of Oklahoma); April Martin (Univ. of Oklahoma); Amy McGovern (University of Oklahoma); Nick Lange (Facebook); Julia Pounds (Civil Aeromedical Institute (CAMI), Federal Aviation Administration); James Shanteau (Kansas State University); Amber Sprengler (University of Maryland); Jose Quesada (Max Planck); Jim Reggia (Univ. of Maryland); Joe Tidwell (Univ. of Maryland), David Weiss (California State University, Los Angeles); Erica Yu (Univ. of Maryland)

Graduate Advisor: James Shanteau (Kansas State University)

Post-Doctoral Advisor: Coty Gonzalez (Carnegie Mellon University)

Thesis Advisor or Co-Advisor: Jeni Fan (M.S., Booz-Allen-Hamilton); Nicholas Lange (M.S., Ph.D, Post-Doc, Facebook); April Martin (Ph.D., American Research Institute); Ashley Lawrence (M.S., Georgia Tech); David Illingsworth (Ph.D., Georgia Tech.), Lesheng Hua (Ph.D., University of Oklahoma)

References

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