



- 2007 Guest Lecturer, P648 Choice Behavior, Indiana University.
- 2007 Guest Lecturer, K300 Statistical Techniques, Indiana University.
- 2007 Teaching Assistant, K300 Statistical Techniques, taught by Luiz Pessoa, Ph.D., Indiana University.
- 2007 Research Assistant, Decision Research Lab.
- 2006 Instructor, P154 Introduction to Psychology II for Majors: Lab.
- 2004 Teaching Assistant, P151 Introduction to Psychology for Majors, taught by Julie C. Stout, Ph.D., Indiana University.
- 2004-2008 Coordinator, Decision Research Laboratory.
- 2003 Guest Lecturer, P335 Cognitive Psychology.
- 2003 Teaching Assistant, P335 Cognitive Psychology, taught by Brian Bowdle, Ph.D., Indiana University.
- 2002-2003 Research Assistant, The Robert and Mary Ann Hall Chair of Psychology, Stephen Allison, Ph.D., Abilene Christian University.
- 2001-2002 Research Assistant, Chair of Psychology Department, Robert McKelvain, Ph.D., Abilene Christian University.

## Professional Affiliations

Association for Psychological Science  
 Cognitive Neuroscience Society  
 Judgment and Decision Making  
 Society for Neuroeconomics  
 Society for Neuroscience

## Honors and Awards

- 2010 Travel Grant for Batsheva Symposium on Reward and Decision Making in the Brain, Jerusalem, Israel.
- 2009 Student Research Achievement Award, Cognitive Science Program,

- Indiana University.
- 2008 J. R. Kantor Award for Excellence in Graduate Research, Department of Psychological & Brain Sciences, Indiana University.
- 2008 Cognitive Science Program Summer Fellowship Award, Indiana University.
- 2006 Summer Institute on Bounded Rationality in Psychology and Economics participant, Max Planck Institute for Human Development, Berlin, Germany.
- 2005 Commendation on Qualifying Examination.
- 2004-2006 Clinical Science Research Training Grant, supported by National Institute of Mental Health, Indiana University.
- 2004 Cognitive Science Program Summer Award, Indiana University.
- 2003 Certificate in Mediation, Abilene Christian University Center for Conflict Resolution.
- 2003 Graduate Research Paper Contest, Quantitative Division, 2<sup>nd</sup> place, Abilene Christian University.
- 2003 Graduate Research Paper Contest, Quantitative Division, 3<sup>rd</sup> place, Abilene Christian University.
- 2002 Wells-Kirkland Scholarship, Abilene Christian University.
- 2002 Graduate Research Paper Contest, Quantitative Division, 1<sup>st</sup> place, Abilene Christian University.
- 1997 Valedictorian, Abilene Christian University.
- 1997 Outstanding Student, College of Business Administration, Abilene Christian University.
- 1997 Who's Who Among American College Students.
- 1995-1997 National Dean's List.
- 1994-1997 University Scholarship, Abilene Christian University.
- 1994-1997 Trustee Scholarship, Abilene Christian University.
- 1994-1997 Valedictorian-Salutatorian Scholarship, Abilene Christian University.
- 1994 National Office Products Association Scholarship.
- 1994 Wal-Mart Scholarship.

## Ad hoc Review

### Journals

*Behavioral and Brain Sciences, Cognitive Psychology, Cognitive Science, Journal of Behavioral Decision Making, Journal of the Royal Society Interface, Judgment and Decision Making, Neural Computation, Neuroimage, Neuroscience Research, Organizational Behavior and Human Decision Processes, Psychonomic Bulletin & Review*

### Conferences and Grants

*Cognitive Science Annual Meeting, National Science Foundation, Netherlands Organization for Scientific Research*

## Publications

**Jessup, R. K., & O'Doherty, J. P.** (in press). Decision neuroscience: Choices of description and experience. *Current Biology*.

**Jessup, R. K., Busemeyer, J. R., Brown, J. W.** (2010). Error effects in anterior cingulate cortex reverse when error likelihood is high. *Journal of Neuroscience, 30*, 3467-3472.

**Jessup, R. K., & O'Doherty, J. P.** (2009). It was nice not seeing you today: Perceptual learning about rewards in the absence of awareness. *Neuron, 61*, 649-650.

**Jessup, R. K., Veinott, E. S., Todd, P. M., & Busemeyer, J. R.** (2009). Leaving the store empty-handed: Testing explanations for the too much effect using decision field theory. *Journal of Psychology & Marketing, 26*, 299-320.

**Jessup, R. K.** (2009). Transfer of high domain knowledge to a similar domain. *American Journal of Psychology, 122*, 63-73.

Busemeyer, J. R., & **Jessup, R. K., & Dimperio, E.** (2009). The dynamic interactions between situations and decisions. In P. Robbins, M. Aydede (Eds.), *The Cambridge*

*Handbook of Situation Cognition* (pp. 307-321). New York: Cambridge University Press.

**Jessup, R. K.**, Bishara, A. J., & Busemeyer, J. R. (2008). Feedback produces divergence from Prospect Theory in descriptive choice. *Psychological Science*, *19*, 1015-1022.

Busemeyer, J. R., Dimperio, E., & **Jessup, R. K.** (2007). Integrating emotional processes into decision making models. In W. D. Gray (Ed.), *Integrated Models of Cognitive Systems* (pp. 213-229). New York: Oxford University Press.

Busemeyer, J. R., **Jessup, R. K.**, Johnson, J. G., & Townsend, J. T. (2006). Building bridges between neural models and complex decision making behavior. *Neural Networks*, *19*, 1047-1058.

Busemeyer, J. R., Johnson, J. G., & **Jessup, R. K.** (2006). Preferences constructed from dynamic micro-processing mechanisms. In S. Lichtenstein & P. Slovic (Eds.), *The Construction of Preference* (pp. 220-234). New York: Cambridge University Press.

Beck, R., & **Jessup R. K.** (2004). A multidimensional assessment of Quest motivation. *Journal of Psychology and Theology*, *32*, 283 – 294.

## Submitted and in Preparation Manuscripts

Ahn, Woo-Young, Busemeyer, J. R., & **Jessup, R. K.** (submitted). *Building bridges between neuroscience and complex decision making.*

Dimperio, E., **Jessup, R. K.**, & Busemeyer, J. R. (in revision). *Integrating sophisticated choice models with basic learning processes to more fully account for complex choice behavior.*

**Jessup, R. K.**, & O'Doherty J. P. (submitted). *Human dorsal striatal activity during choice discriminates reinforcement learning behavior from the gambler's fallacy.*

**Jessup, R. K.**, Brown, J. W., & Busemeyer, J. R. (in preparation). *Neural correlates of behavioral differences between descriptive and experiential choice.*

**Jessup, R. K.**, Rangel, A. & O'Doherty J. P. (in preparation). *BOLD correlates of evidence integration during value-based decision making.*

Prevost C., McCabe, J., **Jessup, R. K.**, Bossaerts, P., & O'Doherty, J. P. (submitted). *Differentiable contributions of human amygdalar subregions in reward and avoidance learning.*

## Conference Presentations

- Jessup, R. K., Cahill, D., & O'Doherty, J. P. (2010, November). Contribution of the human dorsal striatum to model-free reinforcement learning. In J. W. Brown (Chair), *Learning the value of actions*. Nanosymposium conducted at the 40<sup>th</sup> annual meeting of the Organization for Human Brain Mapping, San Diego, CA.
- Jessup, R. K., Rangel, A., & O'Doherty, J. P. (2010, October). *BOLD correlates of evidence integration during value-based decision making*. Poster presented at the 8<sup>th</sup> annual meeting of the Society for Neuroeconomics, Evanston, IL.
- Jessup, R. K., & O'Doherty, J. P. (2010, June). *Unique contributions of the ventromedial prefrontal cortex and striatum in irrational choice*. Poster presented at the 16<sup>th</sup> annual meeting of the Organization for Human Brain Mapping, Barcelona, Spain.
- Jessup, R. K., Busemeyer, J. R., & Brown, J. W. (2008, November). *Neural Correlates of Behavioral Differences between Descriptive and Experiential Choice*. Paper presented at the 29<sup>th</sup> annual meeting of the Society for Judgment and Decision Making, Chicago, IL.
- Jessup, R. K., Busemeyer, J. R., & Brown, J. W. (2008, November). *Neural Correlates of Decision Field Theory with Learning: A Model-based Approach to fMRI*. Paper presented at the 49<sup>th</sup> annual meeting of the Psychonomic Society, Chicago, IL.
- Busemeyer, J. R., Dimperio, E., & Jessup, R. K. (2008, July). *Integrating sophisticated choice models with basic learning processes to more fully account for complex choice behavior*. Paper presented at the 41<sup>st</sup> annual meeting of the Society for Mathematical Psychology, Washington D.C.
- Jessup, R. K., & Busemeyer, J. R. (2007, November). *Feedback Engenders Underweighting of Small Probabilities in Decisions from Description*. Poster presented at the 28<sup>th</sup> annual meeting of the Society for Judgment and Decision Making, Long Beach, CA.
- Veinott, E. S., Jessup, R. K., & Todd, P. M. (2007, August). *Leaving the store empty-handed: Decision Field Theory and choice*. Poster presented at the 29<sup>th</sup> annual meeting of the Cognitive Science Society, Nashville, TN.

- Jessup, R. K., & Busemeyer, J. R. (2007, May). *Decision field theory as a bridge between neural models and complex decision making behavior*. Poster presented at the 14<sup>th</sup> annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Jessup, R. K., & Busemeyer, J. R. (2006, November). *Decision field theory as a bridge between neural models and complex decision making behavior*. Poster presented at the 27<sup>th</sup> annual meeting of the Society for Judgment and Decision Making, Houston, TX.
- Veinott, E. S., Jessup, R. K., & Busemeyer, J. R. (2006, November). *Simulating the too-much-choice effect: A comparison of explanations derived from Decision Field Theory*. Poster presented at the 27<sup>th</sup> annual meeting of the Society for Judgment and Decision Making, Houston, TX.
- Jessup, R. K., & Busemeyer, J. R. (2006, September). *Decision field theory as a bridge between neural models and complex decision making behavior*. Paper presented at the 4<sup>th</sup> annual meeting of the Society for Neuroeconomics, Park City, UT.
- Jessup, R. K., Veinott, E. S., & Todd, P. M. (2006, June). *Simulating the too-much-choice effect: A comparison of explanations derived from Decision Field Theory*. Poster presented at the 10<sup>th</sup> biennial meeting of the Behavioral Decision Research in Management, Santa Monica, CA.
- Jessup, R. K. (2006, April). *Simulating the too-much-choice effect: A comparison of explanations derived from Decision Field Theory*. Paper presented at the Clinical Science Colloquium, Indiana University, Bloomington, IN.
- Jessup, R. K. (2005, April). *Modeling the too-much-choice effect: A comparison of explanations derived from Decision Field Theory*. Paper presented at the Hoosier Mental Life Conference, Bloomington, IN.
- Jessup, R. K. (2005, December). *Descriptive vs. Experiential Decisions: A fMRI Proposal*. Presented at IU Neuroimaging Group, Indiana University, Bloomington, IN.
- Jessup, R. K. (2005, December). *Interacting effects of gamble variance and learning on preference reversals: A model comparison*. Paper presented at the Cognitive Lunch Seminar, Indiana University, Bloomington, IN.
- Jessup, R. K. (2005, November). *Interacting effects of gamble variance and learning on preference reversals: A model comparison*. Poster presented at the 26<sup>th</sup> annual meeting of the Society for Judgment and Decision Making, Toronto, ON, CAN.

Jessup, R. K., Johnson, J. G., & Busemeyer, J. R. (2004, June). *A systematic examination of preference reversals*. Paper presented at the Hoosier Mental Life Conference, Columbus, OH.

Jessup, R. K. (2003, April). The effects of high domain knowledge on memory in an unknown, yet similar domain: Can domain knowledge transfer? In T. S. Perkins (Chair), *Advances in Neuropsychological Assessment*. Symposium conducted at the Southwest Psychological Association Conference, New Orleans, LA.

Jones, B. V. & Jessup, R. K. (2003, April). *Maturity and tarnished innocence and their effect on just world expectations*. Poster presented at the Southwest Psychological Association Conference, New Orleans, LA.

McDonald, A., Jessup, R. K., Grippando, M., & Crosby, L. (2004, July). *Flashbulb memories: The Columbia space shuttle explosion and the September 11<sup>th</sup> attacks*. Poster presented at the 112<sup>th</sup> convention of the American Psychological Association in Honolulu, HI.

McKelvain, W. R., Jessup, R. K., Woods, C., & Phillips, S. (2003, April). *Exploring the construct of trust: An assessment study*. Poster presented at the Southwest Psychological Association Conference, New Orleans, LA.

Jessup, R. K. (2002, April). A multidimensional assessment of Quest motivation. In R. Beck, & A. McDonald (Chairs), *Relating to God: Empirical perspectives on spiritual well-being*. Symposium conducted at the Southwest Psychological Association Conference, Corpus Christi, TX.