

Vita **THOMAS R.**

COYLE July 2014

Contact Information

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<http://scholar.google.com/citations?user=wygIKfQAAAAJ&hl=en&oi=ao> (publication list)

Academic Training

Graduate: Ph.D., Psychology, 1997
University of Florida, Gainesville, FL
Advisors: Patricia H. Miller and Shari A. Ellis
Dissertation: *Variability and Utilization Deficiencies in Children's Memory Strategies: A Developmental Study*

M.A., Psychology, 1993
Florida Atlantic University, Boca Raton, FL
Advisor: David F. Bjorklund
Thesis: *The Development of Utilization Deficiencies in a Sort/Recall Memory Task*

Undergraduate: B.A. (Cum Laude), Psychology, 1991
Florida Atlantic University, Boca Raton, FL

Professional Experience

2012-Present	Professor of Psychology Department of Psychology University of Texas at San Antonio
2002-2012	Associate Professor of Psychology Department of Psychology University of Texas at San Antonio
1997-2002	Assistant Professor of Psychology Department of Psychology University of Texas at San Antonio
1996-1997	NIH Predoctoral Fellow in Cognitive Development Department of Psychology University of Florida, Gainesville, FL
1993-1994	NIH Predoctoral Fellow in Cognitive Development Department of Psychology University of Florida, Gainesville, FL

Research Program

My research program explores the nature and development of cognitive ability. Current projects examine (a) the predictive validity of cognitive tests after removing general intelligence (*g*), (b) the contribution of basic processes (processing speed and working memory) to the development of *g*, and (c) group differences in cognitive ability.

Refereed Publications

Journal Articles (Student Author)

- Coyle, T. R.** (2014). Predictive validity of non-*g* residuals of tests: More than *g*. *Journal of Intelligence*, *2*, 21-25.
- Coyle, T. R., Purcell, J. M., Snyder, A. C., & Richmond, M. C.** (2014). Ability tilt on the SAT and ACT predicts specific abilities and college majors. *Intelligence*, *46*, 18-24.
- Coyle, T. R.** (2013). Effects of processing speed on intelligence may be underestimated: Comment on Demetriou et al. (2013). *Intelligence*, *41*, 732-734.
- Coyle, T. R., Purcell, J. M., & Snyder, A. C.** (2013). White-black differences in *g* and non-*g* effects for the SAT and ACT. *Personality and Individual Differences*, *54*, 941-945.
- Coyle, T. R., & Rindermann, H.** (2013). Spearman's Law of Diminishing Returns and national ability. *Personality and Individual Differences* *55*, 406-410.

- Coyle, T. R., Snyder, A. C., Purcell, J. M., & Kochunov, P.** (2013). Non-g residuals of the SAT and ACT predict specific abilities. *Intelligence, 41*, 114-120.
- Coyle, T. R., Pillow, D. R., Snyder, A. C., & Kochunov, P.** (2011). Processing speed mediates the development of general intelligence (g) in adolescence. *Psychological Science, 22*, 1265-1269.
- Coyle, T., Snyder, A., Pillow, D., & Kochunov, P.** (2011). SAT predicts GPA better for high ability subjects: Implications for Spearman's Law of Diminishing Returns. *Personality and Individual Differences, 50*, 470-474.
- Kochunov, P., Coyle, T., Lancaster, J., Robin, D. A., Hardies, J., Kochunov, V., Bartzokis, G., Stanley, J., Royall, D., Schlosser, A. E., Null, M., & Fox, P. T.** (2010). Processing speed is correlated with cerebral health markers in the frontal lobes as quantified by neuroimaging. *Neuroimage, 49*, 1190-1199.
- Kochunov, P., Ramage, A. E., Lancaster, J. L., Robin, D. A., Narayana, S., Coyle, T., Royall, D. R., & Fox, P.** (2009). Loss of cerebral white matter structural integrity tracks the gray matter metabolic decline in normal aging. *Neuroimage, 45*, 17-28.
- Kochunov, P., Robin, D. A., Royall, D. R., Coyle, T., Lancaster, J., Kochunov, V., Schlosser, A. E., & Fox, P. T.** (2009). Can structural MRI indices of cerebral integrity track cognitive trends in executive control function during normal maturation and adulthood? *Human Brain Mapping, 30*, 2581-2594.
- Coyle, T. R., & Pillow, D. R.** (2008). SAT and ACT predict college GPA after removing g. *Intelligence, 36*, 719-729.
- Kochunov, P., Thompson, P. M., Coyle, T. R., Lancaster, J. L., Kochunov, V., Royall, D., Mangin, J. F., Rivière, D., & Fox, P.** (2008). Relationship among neuroimaging indices of cerebral health during normal aging. *Human Brain Mapping, 29*, 36-45.
- Kochunov, P., Thompson, P. M., Lancaster, J. L., Bartzokis, G., Smith, S., Coyle, T., Royall, D. R., Laird, A., & Fox, P. T.** (2007). Relationship between white matter fractional anisotropy and other indices of cerebral health in normal aging: Tract-based spatial statistics study of aging. *Neuroimage, 35*, 478-487.
- Coyle, T. R.** (2006). Test-retest changes on scholastic aptitude tests are not related to g. *Intelligence, 34*, 15-27.
- Coyle, T. R., Kochunov, P., Patel, R., Nery, F. G., Lancaster, J., Mangin, J. F., Rivière, D., Pillow, D. R., Davis, G. J., Nicoletti, M. A., Monkul, E. S., Fox, P. T., & Soares, J. C.** (2006). Cortical sulci and bipolar disorder. *Neuroreport, 17*, 1739-1742.
- Kochunov, P., Mangin, J. F., Coyle, T. R., Lancaster, J. L., Thompson, P., Rivière, D., Cointepas, Y., Regis, J., Schlosser, A., Royall, R. D., Zilles, K., Mazziotta, J., Toga, A., & Fox, P. T.** (2005). Age-related morphology trends of cortical sulci. *Human Brain Mapping, 26*, 210-220.
- Coyle, T. R.** (2003a). A review of the worst performance rule: Evidence, theory, and alternative hypotheses. *Intelligence, 31*, 567-587.
- Coyle, T. R.** (2003b). IQ, the worst performance rule, and Spearman's law: A reanalysis and extension. *Intelligence, 31*, 473-489.

- Coyle, T. R.** (2001a). Factor analysis of variability measures in eight independent samples of children and adults. *Journal of Experimental Child Psychology*, 78, 330-358.
- Coyle, T. R.** (2001b). IQ is related to the worst performance rule in a memory task involving children. *Intelligence*, 29, 117-129.
- Coyle, T. R.** (2000). Review of the book *The Human Relationship with Nature: Culture and Development*. *Culture and Agriculture*, 23, 32-35.
- Coyle, T. R., Read, L. E., Gaultney, J. F., & Bjorklund, D. F.** (1998). Giftedness and variability in strategic processing on a multitrial memory task: Evidence for stability in gifted cognition. *Learning and Individual Differences*, 10, 273-290.
- Bjorklund, D. F., Miller, P. H., Coyle, T. R., & Slawinski, J. L.** (1997). Instructing children to use memory strategies: Evidence for utilization deficiencies in memory training studies. *Developmental Review*, 17, 411-441.
- Coyle, T. R., & Bjorklund, D. F.** (1997). Age differences in, and consequences of, multiple- and variable-strategy use on a multitrial sort-recall task. *Developmental Psychology*, 33, 372-380.
- Coyle, T. R., & Bjorklund, D. F.** (1996). The development of strategic memory: A modified microgenetic assessment of utilization deficiencies. *Cognitive Development*, 11, 295-314.
- Bjorklund, D. F., Coyle, T. R., & Gaultney, J. F.** (1992). Developmental differences in the acquisition and maintenance of an organizational strategy: Evidence for the utilization deficiency hypothesis. *Journal of Experimental Child Psychology*, 54, 434-448.

Book Chapters and Encyclopedia Entries

- Coyle, T. R.** (2006). The Wechsler Adult Intelligence Scale (WAIS). In Neil J. Salkind (Ed.), *Encyclopedia of human development* (Vol. 3, pp. 1318-1319). Thousand Oaks, CA: Sage.
- Miller, P. H., & Coyle, T. R.** (1999). Developmental change: Lessons from microgenetic studies. In E. Scholnick, K. Nelson, S. Gelman, & P. H. Miller (Eds.), *Conceptual development: Piaget's legacy* (pp. 209-239). Hillsdale, NJ: Erlbaum.
- Bjorklund, D. F., & Coyle, T. R.** (1995). Utilization deficiencies in the development of memory strategies. In F. E. Weinert & W. Schneider (Eds.), *Memory performance and competencies: Issues in growth and development* (pp. 161-180). Mahwah, NJ: Erlbaum.

Conference Abstract

- Coyle, T. R., Kochunov, P., Patel, R., Nery, F. G., Lancaster, J., Mangin, J. F., Riviere, D., Pillow, D. R., Davis, G. J., Nicoletti, M. A., Monkul, E. S., Fox, P. T., & Soares, J. C.** (2006). Cortical sulci and bipolar disorder. Abstract of the 61st Annual Meeting of the Society of Biological Psychiatry, Toronto, Canada. *Biological Psychiatry*, 59 (abstract #477), 146S-147S.

Comment of Public Interest

Coyle, T., Johnson, W. & Rindermann, H. (2013, May 17). Open Letter – Letter of Protest on the comment of Robert Sternberg (2013) on Hunt (2012). *Perspectives on Psychological Science*. Link: http://pps.sagepub.com/content/8/2/187.abstract/reply#sppps_el_84.

Presentations (Including Chaired Symposia)

- Coyle, T. R., Purcell, J. M., Snyder, A. C., & Richmond, M. C.** (2014, May). *Ability tilt on the SAT and ACT predicts specific abilities and college majors*. Poster presented at the annual convention of the Association for Psychological Science, San Francisco, CA.
- Rindermann, H., & Coyle, T.** (2014, May). *Cognitive capitalism: Economic liberty increases the effects of cognitive competence on technology and wealth*. Poster presented at the annual convention of the Association for Psychological Science, San Francisco, CA.
- Becker, D., Rindermann, H., Coyle, T. R.** (2013, December). *Expert opinion on the causes of international differences in intelligence*. Poster presented at the annual meeting of the International Society for Intelligence Research, Melbourne, Australia.
- Coyle, T. R., Purcell, J. M., Snyder, A. C., Richmond, M. C., & Vargas, R.** (2013, December). *Validity of ability tilt on the SAT and ACT*. Paper presented at the annual meeting of the International Society for Intelligence Research, Melbourne, Australia.
- Rindermann, H., Coyle, T. R., Becker, D.** (2013, December). *2013 Survey of expert opinion on intelligence*. Paper presented at the annual meeting of the International Society for Intelligence Research, Melbourne, Australia.
- Coyle, T. R., Purcell, J., Snyder, A., Vargas, R., & Richmond, M.** (2013, May). *Predictive validity of ability tilt on the SAT and ACT*. Poster presented at the annual convention of the Association for Psychological Science, Washington, DC.
- Purcell, J., Coyle, T., Pillow, D., & Snyder, A.** (2013, April). *Processing speed mediates the relationship between age and intelligence in adolescence*. Poster presented at the UTSA Psychology Student Research Conference, San Antonio, Texas. [Poster also presented at the 2009 conference of the Association for Psychological Science.]
- Richmond, M., Coyle, T., Pillow, D., Snyder, A.** (2013, April). *Spearman's law of diminishing returns, the g factor, and SAT-GPA correlations*. Poster presented at the UTSA Psychology Student Research Conference, San Antonio, Texas. [Poster also presented at the 2008 conference of the Association for Psychological Science.]
- Coyle, T. R.** (2012, December). *Three rules to live by*. Keynote address at the UTSA Psi Chi Induction Ceremony, San Antonio, Texas.
- Coyle, T., Purcell, J., Snyder, A., & Kochunov, P.** (2012, December). *Non-g residuals of the SAT and ACT predict specific abilities*. Paper presented at the annual meeting of the International Society for Intelligence Research, San Antonio, Texas.
- Coyle, T. R.** (2012, May). Predictive validity of SAT and ACT after removing general intelligence (g). In T. R. **Coyle** (Chair), *The modern status of intelligence research*. Symposium conducted at the annual meeting of the Association for Psychological Science, Chicago, IL.

- Kuncel, N. R. (2012, May). Predictive power, social class, and ability thresholds. In T. R. **Coyle** (Chair), *The modern status of intelligence research*. Symposium conducted at the annual meeting of the Association for Psychological Science, Chicago, IL.
- Rindermann, H., & Oesterdiekhoff, G. W. (2012, May). Cognitive development and modernization of society and culture. In T. R. **Coyle** (Chair), *The modern status of intelligence research*. Symposium conducted at the annual meeting of the Association for Psychological Science, Chicago, IL.
- Snyder, A., Purcell, J., Vargas, R., Konur, A., & Coyle, T. (2012, May). *Relations among general intelligence, the general factor of personality, and college GPA*. Poster presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
- Coyle, T. R., & Purcell, J.** (2011, December). *Predictive validity of SAT non-g variance: Sex and race effects*. Paper presented at the annual meeting of the International Society for Intelligence Research, Limassol, Cyprus.
- Coyle, T. R., Snyder, A., Purcell, J., & Huston, R.** (2011, May). *Test-specific variances from the SAT predict college GPA beyond general variance*. Poster presented at the annual meeting of the Association for Psychological Science, Washington, DC.
- Coyle, T. R., Purcell, J., Snyder, A. C., & Huston, R.** (2011, April). *Predictive validity of SAT non-g variance for males and females*. Poster presented at the annual meeting of the Southwestern Psychological Association, San Antonio, TX. [Poster also presented at the 2011 UTSA Psychology Student Research Conference.]
- Snyder, A., & Coyle, T. R. (2011, March). *Does the TAKS predict first-year college GPA after removing general intelligence (g)?* Poster presented at the annual UTSA College of Liberal and Fine Arts Student Research Competition, San Antonio, TX. [**Second place for graduate student poster.**]
- Coyle, T. R.** (2010, December). Predicting college GPA using test-specific variances (TSVs) from the SAT. In T. R. Coyle (Chair), *Predicting academic achievement using non-g variance*. Symposium conducted at the annual meeting of the International Society for Intelligence Research, Alexandria, VA.
- Purcell, J. M., & Coyle, T. R. (2010, December). Predicting college GPA using non-g variances from the SAT and ASVAB. In T. R. Coyle (Chair), *Predicting academic achievement using non-g variance*. Symposium conducted at the annual meeting of the International Society for Intelligence Research, Alexandria, VA.
- Snyder, A., & Coyle, T. R. (2010, December). Predicting first-year college GPA using the exit-level TAKS examination. In T. R. Coyle (Chair), *Predicting academic achievement using non-g variance*. Symposium conducted at the annual meeting of the International Society for Intelligence Research, Alexandria, VA.
- Coyle, T. R.** (2010, October). *SAT predicts subject-specific GPAs after removing g: A latent variable approach*. Invited talk at speaker series hosted by the College Board, Educational Testing Service, and Law School Admission Council, Princeton, NJ.
- Coyle, T. R., Snyder, A., Purcell, J., & Pillow, D. R.** (2010, May). *SAT predicts GPA better for high ability subjects: Influence of non-g variance*. Poster presented at the annual meeting of the Association for Psychological Science, Boston, MA.

- Coyle, T. R., Snyder, A. C., Pillow, D. R., & Kochunov, P.** (2009, December). *Predicting academic achievement with test-specific variances: Not much more than g*. Poster presented at the annual meeting of the International Society for Intelligence Research, Madrid, Spain.
- Kochunov, P., **Coyle, T.**, Lancaster, J., Robin, D., Bartzokis, G., & Fox, P. (2009, June). *Decline in cognitive processing speed and aging of the frontal lobes*. Poster presented at the annual meeting of the Organization for Human Brain Mapping, San Francisco, CA.
- Coyle, T. R.**, Pillow, D. R., Snyder, A. C., & Stephens, W. A. (2009, May). *Processing speed mediates the relationship between age and intelligence in adolescence*. Poster presented at the annual meeting of the Association for Psychological Science, San Francisco, CA.
- Coyle, T. R., Snyder, A. C., Stephens, W., & Pillow, D. R.** (2009, April). *Processing speed mediates the link between age and intelligence during adolescence*. Poster presented at the annual meeting of the Southwestern Psychological Association, San Antonio, TX.
- Coyle, T. R., & Pillow, D. R.** (2008, May). *SAT and ACT predict college GPA after removing g*. Poster presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
- Null, M. C., **Coyle, T. R.**, Pillow, D. R., & Snyder, A. C. (2008, May). *Spearman's law of diminishing returns, the g factor, and SAT-GPA correlations*. Poster presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
- Coyle, T. R.**, Schlosser, A., Kochunov, V., Robin, D., Lancaster, J., Fox, P. (2007, June). *Cortical network of executive function can be studied through structural cerebral health markers*. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Chicago, IL.
- Kochunov, P., Thompson, P., Lancaster, J., Bartzokis, G., Steven, S., **Coyle, T.**, Fox, P. (2007, June). *Relationship between white matter fractional anisotropy and other indices of cerebral health in normal aging: TBSS study of aging*. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Chicago, IL.
- Coyle, T. R.**, Kochunov, P., Kochunova, V., Royall, D., Schlosser, A., Null, M., Lancaster, J., & Fox, P. T. (2007, May). *Frontal networks and executive function in older adults: A principal components analysis*. Poster presented at the annual meeting of the Association for Psychological Science, Washington, DC.
- Coyle, T. R., & Null, M.** (2007, April). *Hispanic-white differences on cognitive tests are largely differences in g*. Poster presented at the annual meeting of the Southwestern Psychological Association, Fort Worth, TX.
- Coyle, T. R., & Null, M.** (2007, April). *Hemispheric asymmetry in cortical sulci during normal aging*. Poster presented at the annual meeting of the Southwestern Psychological Association, Fort Worth, TX.
- Coyle, T. R.**, Kochunov, P., Rupal, P., Nery, F. G., Lancaster, J., Mangin, J. F., Riviere, D., Pillow, D. R., Davis, G. J., Nicoletti, M. A., Monkul, E. S., Fox, P. T., & Soares, J. C. (2006, May). *Cortical sulci and bipolar disorder*. Paper presented at the annual meeting of the Society of Biological Psychiatry, Toronto, Canada.

- Coyle, T. R.** (2006, April). *Age and reaction time relationships vary with reaction time complexity*. Poster presented at the biennial Conference on Human Development, Louisville, KY.
- Coyle, T. R.** (2006, April). *Variability in cortical sulci over the lifespan*. Poster presented at the biennial Conference on Human Development, Louisville, KY.
- Coyle, T. R., & Hernandez, B.** (2006, April). *Does the g loading of cognitive tests predict academic achievement?* Poster presented at the annual meeting of the Southwestern Psychological Association, Austin, TX.
- Coyle, T. R., & Hernandez, B.** (2006, April). *Reaction time complexity mediates age-memory relationships over the lifespan*. Poster presented at the annual meeting of the Southwestern Psychological Association, Austin, TX.
- Coyle, T. R.** (2005, September). *Intraindividual cognitive variability and intelligence*. Invited address at the Psychological Corporation, San Antonio, TX.
- Coyle, T. R.** (2005, April). *Children's strategy choice on a memory task with changing demands*. Poster presented at the biennial Meeting of the Society for Research in Child Development in Atlanta, GA.
- Coyle, T. R.** (2004, April). *A replication and extension of a best performance rule for children's memory*. Poster presented at the biennial Conference on Human Development, Washington, DC.
- Coyle, T. R.** (2004, March). *Do SAT change scores represent changes in g?* Poster presented at the annual meeting of the Southwestern Psychological Association, San Antonio, TX.
- Rivera, O. L., Lopez, M., Hernandez, B., & Coyle, T. R.** (2004, March). *Do Hispanics show stereotype threat effects on mental ability tests?* Poster presented at the annual meeting of the Southwestern Psychological Association, San Antonio, TX.
- Coyle, T. R.** (2003, April). *Using grade level to predict worst and best performance: Evidence for a "best performance rule."* Poster presented at the biennial meeting of the Society for Research in Child Development, Tampa, FL.
- Coyle, T. R.** (2002, May). *Microgenetic studies of cognition and development*. Invited address at the Research Imaging Center, University of Texas Health Science Center at San Antonio.
- Coyle, T. R.** (2002, April). *The worst performance rule and Spearman's law: A developmental study*. Poster presented at the biennial Conference on Human Development, Charlotte, NC.
- Coyle, T. R.** (2002, April). *The reliability of "error variance": An example from children's word recall*. Poster presented at the biennial Conference on Human Development, Charlotte, NC.
- Coyle, T. R.** (2001, August). *IQ, Spearman's law, and the worst performance rule*. Invited address at the Psychological Corporation, San Antonio, TX.
- Coyle, T. R.** (2001, March). *The evolution of intelligence*. Invited address at the Krost Symposium, Texas Lutheran University, Seguin, TX.
- Coyle, T. R.** (2000, May). *Evidence for the worst performance rule on a strategic memory task involving children*. Poster presented at the biennial Conference on Human Development, Memphis, TN.

- Coyle, T. R.** (1999, May). *Variability in children's memory strategies*. Invited address at the University of Houston, TX.
- Coyle, T. R.** (1999, April). *Assessing the relative influence of different measures of variability: A developmental study*. Poster presented at the biennial meeting of the Society for Research in Child Development, Albuquerque, NM.
- Coyle, T. R.** (1998, March). *Utilization deficiencies in children's memory strategies*. Poster presented at the biennial meeting of the Southwestern Society for Research in Human Development, Galveston, TX.
- Coyle, T. R.** (1998, March). *Variability in children's memory strategies depends on age and task experience*. Poster presented at the biennial Conference on Human Development, Mobile, AL.
- Coyle, T. R., Colbert, C. T., & Read, L. E.** (1997, April). *Strategy variability and memory performance in average- and high-IQ children*. Poster presented at the biennial meeting of the Society for Research in Child Development, Washington, DC.
- Coyle, T. R., & Slawinski, J. L.** (1997, April). *Evidence for utilization deficiencies in memory training studies: A research review*. Poster presented at the biennial meeting of the Society for Research in Child Development, Washington, DC.
- Coyle, T. R., & Ellis, S. A.** (1996, March). *Memory performance as a function of individual differences in strategy variability*. Poster presented at the biennial Conference on Human Development, Birmingham, AL.
- Slawinski, J. L., Caldwell, L., **Coyle, T. R.**, Clark, N., & Miller, S. A. (1996, March). *It looks like a zebra: Children's understanding of four kinds of concepts*. Poster presented at the biennial Conference on Human Development, Birmingham, AL.
- Bjorklund, D. F., & **Coyle, T. R.** (1995, March). *Utilization deficiencies, multiple strategy use, and memory development*. Poster presented at the biennial meeting of the Society for Research in Child Development, Indianapolis, IN.
- Coyle, T. R., & Bjorklund, D. F.** (1994, April). *The development of utilization deficiencies in a sort-recall memory task*. Poster presented at the biennial Conference on Human Development, Pittsburgh, PA.
- Coyle, T. R., Gaultney, J. F., & Bjorklund, D. F.** (1992, April). *Evidence for a utilization deficiency in children's use of an organizational strategy: A developmental analysis*. Poster presented at the biennial Conference on Human Development, Atlanta, GA.
- Muir-Broadbent, J. E., & **Coyle, T. R.** (1991, April). *Effects of giftedness and achievement on the training and transfer of a strategy for solving analogies*. Paper presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.

Submitted and In Preparation

Submitted for Publication

- Coyle, T. R., Snyder, A. C., Richmond, M. C.** (2014). *Validity of SAT residuals for specific GPAs: A bit more than (SAT)g*. Manuscript submitted for publication.

In Preparation

- Andreas, S. F. K., Zech, S., **Coyle**, T. R., & Rindermann, H. (2014). *Unconventionality and originality: Does self-assessed unconventionality increase original achievement?* Manuscript in preparation.
- Coyle**, T. R., & Purcell, J. M. (2014). *Does conscientiousness predict GPA better for high ability students?* Manuscript in preparation.
- Coyle**, T. R., & Snyder, A. C. (2014). *Does the Texas Assessment of Knowledge and Skills (TAKS) predict college GPA after removing general intelligence (g)?* Manuscript in preparation.
- Rindermann, H., & **Coyle**, T. R. (2014). *Expert opinions of intelligence and mental ability.* Manuscript in preparation.

Sabbaticals and Grants

- *Validity of Ability Tilt.* University of Texas at San Antonio Faculty Development Leave (Role: Principal Investigator), Fall 2014.
- *Ability Tilt and Academic Achievement in College.* University of Texas at San Antonio Faculty Development Leave (Role: Principal Investigator), Fall 2009.
- *A Probabilistic Reference System of the Human Brain: The Role of White and Gray Matter Atrophy in the Neuropsychological Decline of Patients with Mild Cognitive Impairment.* General Clinical Research Center-Imaging Core (GCRC-IC-049), University of Texas Health Science Center at San Antonio (Role: Principal Investigator), May 2006-2008.
- *Is the Width of Cortical Sulci Related to Bipolar Disorder?* University of Texas at San Antonio Faculty Research Award (Role: Principal Investigator), June 2006-September 2006.
- *Can Cognitive Tests Predict Brain Indicators of Mild Cognitive Impairment and Alzheimer's Disease?* San Antonio Area Foundation (Role: Principal Investigator), June 2005-December 2006.
- *Psychometric Analysis of NeuroCog.* Research Imaging Center, University of Texas Health Science Center at San Antonio (Role: Consultant), June 2004.
- *The Worst Performance Rule and Children's Memory.* University of Texas at San Antonio Faculty Research Award, June 2000 (Role: Principal Investigator).
- *Assessment of Educational Technology.* Office of the Vice President for Academic Affairs, University of Texas at San Antonio (Role: Principal Investigator), August 1999.
- *Cognitive Variability in Development.* Grant Development Grant, Office of Research Development (Role: Principal Investigator), University of Texas at San Antonio, May 1999.
- *Using In-Class Experiments to Enhance Student Learning.* Teaching and Learning Center, University of Texas at San Antonio, August 1998.
- *Knowledge and Children's Memory Strategies.* University of Texas at San Antonio Faculty Research Award (Role: Principal Investigator), November 1997.

- *Variability in Memory Strategy Development*. National Institute of Child Health and Human Development Training Grant (Role: Principal Investigator), September 1996.
- *Utilization Deficiencies in Memory Strategy Development*. National Institute of Child Health and Human Development Training Grant (Role: Principal Investigator), September 1993.
- *Microgenetic Analysis of Children's Memory Strategies*. Sigma Xi Grant-in-Aid-of-Research (Role: Principal Investigator), January 1993.

Submitted Grants

- *Cognitive Processing Therapy and Video Game Interventions for Mild TBI*. PI: Thomas Coyle and Alan Peterson. Agency: Congressionally Directed Medical Research Program (CDMRP). Status: Under Review. Amount Requested: \$1,685,000.00.
- *Modeling Brain Aging and Cognitive Function Using Structural Equation Modeling*. PI: Thomas Coyle. Agency: National Institute on Aging (R21 Mechanism). Status: Reviewed and eligible for resubmission.

Professional Service

University of Texas at San Antonio

- Member, Ph.D. Program Admission Committee, Department of Psychology, 2013-Present
- Member, M.S. Program Admission Committee, Department of Psychology, 2011-Present
- Member, Faculty Advisory Committee, Department of Psychology, 2005-Present
- Member, Faculty Senate Committee on the Budget, 2010-2013
- Member, Faculty Senate Committee on Merit, Evaluation, and Workload, 2010-2013
- Member, Faculty Senate Ad-Hoc Committee on Teaching Surveys, 2012-2013
- Chair, Statistics and Methods Committee, College of Liberal and Fine Arts, UTSA, 2012-2013
- Member, Health Psychology Search Committee, Department of Psychology, 2012-2013
- Judge, San Antonio Regional History Fair, 2007-2013
- Judge, College of Liberal and Fine Arts Student Research Competition, 2008-2013
- Chair, Faculty Senate Ad-Hoc Committee on Teaching Surveys, 2009-2012
- Member, Faculty Senate Committee on Handbook of Operating Procedures, 2009-2012
- Member, Senior Psychologist Search Committee, Department of Psychology, 2011-2012
- Organizer, ROC (Ryan, Osman, Coyle) Research Group, Department of Psychology, 2011-2012
- External Evaluator, Tenure and Promotion Cases, College of Education, UTSA, 2012-2013
- External Evaluator, Tenure and Promotion Case, Department of Philosophy, UTSA, 2012
- Keynote Speaker, Psi Chi Psychology Student Honor Society, 2012
- Periodic Performance Evaluation (PPE) Committee, Department of Psychology, UTSA, 2012
- Member, Merit Committee, Department of Psychology, 2002-2006, 2011

- Member, University Faculty Grievance Committee, 2007-2010
- Member, Faculty Senate Subcommittee on Faculty Grievance Policy, 2008-2010
- Member, University Committee on Teaching Surveys, 2010
- Chair, M.S. Program Evaluation Committee, Department of Psychology 2007-2009
- Chair, Department Committee on President's Achievement Awards, 2009
- Judge, Presidential Scholarships for Doctoral Students, 2009
- Chair, Developmental Search Committee, Department of Psychology, 2007-2008
- Co-Chair, Department Faculty Review Advisory Committee for Tenure Cases, 2008
- Member, University Institutional Review Board (IRB), 2002-2007
- Chair, University Institutional Review Board (IRB), 2005-2007
- Graduate Advisor of Record, Department of Psychology 2003-2004
- Chair, Graduate Committee, Department of Psychology, 2003-2004
- Chair, Senior Psychologist Search Committee, Department of Psychology, 2004
- Chair, Neuropsychology Search Committee, Department of Psychology, 2003
- Faculty Representative, Graduation Ceremony, College of Liberal and Fine Arts, Annually

Professional Reviewing (Excluding Journal Reviewing)

- Chair, College Board CLEP Human Growth and Development Committee, 2014-Present
- Member, College Board CLEP Human Growth and Development Committee, 2008-2014
- Judge, San Antonio Regional History Fair, San Antonio, TX, 2007-2013
- Judge, UTSA College of Liberal and Fine Arts Student Research Conference, 2008-2013
- Reviewer, International Society for Intelligence Research Meeting, 2010-2014
- External Evaluator, Tenure and Promotion Cases, College of Education, UTSA, 2012-2013
- External Evaluator, Tenure and Promotion Case, Department of Philosophy, UTSA, 2012
- External Evaluator, Tenure and Promotion Case, Department of Psychology, Sam Houston State University, TX, 2011
- Reviewer, Southwestern Psychological Association Meeting, San Antonio, TX, 2004, 2008, 2010
- Reviewer, San Antonio Life Sciences Institute (SALSI) Grant Competition, 2009-2010
- Letter Writer, DFRAC on President's Achievement Award for Service, 2009 (Psychology Faculty Member Won Award), 2010
- Reviewer, UTSA President's Achievement Awards, 2009
- Consultant, Harcourt Assessment (now Pearson), San Antonio, TX, 2006
- External Evaluator, Master's Thesis Committee (Eoin M. O'Connell), Department of Psychology, University College Dublin, Ireland, 2005. Thesis: *An investigation into the effects of age, gender and task complexity on inspection time and the relationship between inspection time and psychometric IQ*
- External Evaluator, Tenure and Promotion Case, Department of Psychology, University of Cincinnati, OH, 2005

- External Evaluator, Tenure and Promotion Case, Division of Educational Studies, University of Cincinnati, OH, 2004
- Reviewer, Conference on Human Development, Washington, DC, 2004
- Reviewer, Meeting of Society for Research in Child Development, Tampa, FL, 2003
- Reviewer, Conference on Human Development, Charlotte, NC, 2002

Journal Reviewing

- Editorial Board, *Intelligence*
- Ad Hoc Reviewer: *Child Development*, *Child Development Perspectives*, *Developmental Neuropsychology*, *Developmental Psychology*, *Infant and Child Development*, *Journal of Abnormal Child Psychology*, *Journal of Attention Disorders*, *Journal of Experimental Child Psychology*, *Learning and Individual Differences*, *Memory and Cognition*, *Personality and Individual Differences*

Peer Recognition and Honors

- Fellow, Association for Psychological Science (APS), for “sustained outstanding contributions to the science of psychology in the areas of research, teaching, service, and/or application.” 2014
- Editorial Board, *Intelligence*, 2013-Present
- Conference Organizer (with Tim Keith, UT Austin), International Society for Intelligence Research Conference, San Antonio, TX, 2012
- Symposium Chair, Association for Psychological Science, *The Modern Status of Intelligence Research* (Discussant: Earl Hunt, U Washington), Chicago, IL, 2012.
- Symposium Chair, International Society for Intelligence Research Conference, *Predicting Academic Achievement Using Non-g Variance* (Discussant: David Lubinski, Vanderbilt U), Alexandria, VA, 2010.
- Inaugural Speaker for Speaker Series Hosted by ETS, College Board, and Law School Admissions Council, Princeton, NJ, 2010
- UTSA Faculty Development Leave, College Board, New York, NY, 2009
- Faculty Research Award, University of Texas at San Antonio, 1997, 1999, 2006
- Excellence in Education Award (From Students), University of Texas at San Antonio, 2005
- Early Tenure and Promotion to Associate Professor, University of Texas at San Antonio (First Psychology Professor to Receive Distinction), 2002
- UTSA Faculty Development Leave, Research Imaging Center, University of Texas Health Science Center at San Antonio, 2002
- National Institute of Child Health and Human Development Predoctoral Fellow in Cognitive Development, University of Florida, Gainesville, FL, 1996-1997
- National Institute of Child Health and Human Development Predoctoral Fellow in Cognitive Development, University of Florida, Gainesville, FL, 1993-1994

- Susan B. Dewar Memorial Scholarship for Outstanding Undergraduate Student in Psychology, Florida Atlantic University, Boca Raton, FL, 1993

Thesis Committees

Completed (Titles for Theses Chaired)

- Chair, Jason Purcell (2012). M.S. in Psychology, UTSA. *Does conscientiousness predict college GPA better for high ability groups?*
- Member, Michelle Munevar (2012). M.S. in Psychology, UTSA.
- Member, John Wilder (2012). M.S. in Psychology, UTSA.
- Member, Kathryn Dunlap (2011). M.S. in Psychology, UTSA.
- Chair, Anissa Snyder (2011). M.S. in Psychology, UTSA. *Does the Texas Assessment of Knowledge and Skills predict college GPA after removing general intelligence (g)?*
- Chair, James Enger (2008). M.S. in Psychology, UTSA.
- Chair, Miranda Null (2008). M.S. in Psychology, UTSA. *Relationships among brain morphology, processing speed, and age.*
- Member, Josh Lopez (2008). M.S. in Psychology, UTSA.
- Member, Jessica Woodward (2007). Undergraduate Honors Thesis, UTSA.
- Member, Kelly Miskin (2006). M.S. in Psychology, UTSA.
- Member, Monica Minter (2006). M.S. in Psychology, UTSA.
- Chair, Berny Hernandez, Jr. (2006). M.S. in Psychology, UTSA. *Does the g loading of cognitive tests predict academic achievement?*
- Member, Amy Harrell (2006). M.S. in Psychology, UTSA.
- Member, Karen Spence (2005). M.S. in Psychology, UTSA.
- Chair, Luis O. Rivera (2005). M.S. in Psychology, UTSA. *Stereotype threat and the intelligence test performance of Hispanics.*
- Member, Eoin M. O'Connell (2005). Master of Literature by Research, University College Dublin.
- Member, Eric Gallemore (2005). M.S. in Psychology, UTSA.
- Member, Brian Benitez (2005). M.S. in Psychology, UTSA.
- Member, Patrick Tripp (2004). M.S. in Psychology, UTSA.
- Member, Cynthia Tarrillion (2004). M.S. in Psychology, UTSA.
- Chair, Sharon Primeaux (2002). M.S. in Psychology, UTSA. *The relationship between the worst performance rule and the g factor.*
- Member, Tony Tolin (2001). M.S. in Psychology, UTSA.

Ongoing

- Chair, Miranda Richmond (2012-present). Ph.D. in Psychology, UTSA.
- Member, Vallie Kiageri, M.S. in Psychology, UTSA.

Classes Taught

- Child Development
- Cognition
- Experimental Psychology
- Graduate Seminar in Developmental Psychology
- Introduction to Psychology
- Life-Span Developmental Psychology
- Memory
- Research Methods in Developmental Psychology
- Research Methods in Experimental Psychology

Research Interests

- Cognitive Ability, Intelligence, and the *g* Factor
- Academic Aptitude Tests (SAT and ACT)
- Cognitive Development
- Cognitive Neuroscience
- Educational Testing and Measurement
- Brain Aging and Cerebral Health Markers