

CURRICULUM VITAE

Charles J. Brainerd

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DEGREES

Michigan State University B.S. (Psychology)
Michigan State University M.A. (Psychology)
Michigan State University Ph.D. (Experimental and Developmental Psychology)

ACADEMIC APPOINTMENTS

1970-1971	Assistant Professor, University of Windsor
1971-1973	Assistant Professor, University of Alberta
1973-1976	Associate Professor, University of Alberta
1980-1981	Visiting Professor, University of Minnesota
1976-1983	Professor, University of Western Ontario
1983-1986	Henry Marshall Tory Professor and Director, Center for Research in Child Development, University of Alberta
1986-1987	Visiting Professor, Southern Methodist University
1987-1997	Professor of Educational Psychology, University of Arizona
1997-2004	Professor of Special Education, Rehabilitation, and School Psychology, University of Arizona
2001-2004	Professor of Surgery, University of Arizona
2004-2005	Professor of Psychology, University of Texas
2005-	Professor, Department of Human Development and Graduate Fields of Cognitive Science, Psychology, and Human Development, Cornell University; Adjunct Professor, Cornell University Law School
2006-	Honorary Professor, University of Kent, United Kingdom

2009- Honorary Professor, University of Leicester, United Kingdom
 2014- Visiting Professor, City University London, United Kingdom
 2014- Visiting Professor, University College London
 2014- Research Professor, University of North Florida

ADMINISTRATIVE POSITIONS

1984-1986 Director, Center for Research in Child Development, University of Alberta
 1997- 2004 Co-Director, Division of Learning, Technology, and Assessment, University of Arizona
 2001-2003 Director, Informatics and Decision-Making Laboratory, College of Medicine, University of Arizona
 2006-present Director, Law, Psychology, and Human Development Program, Cornell University
 2011-2017 Chair, Department of Human Development, Cornell University
 2011-present Director, PhD/JD Program and Law, Psychology, and Human Development Program, Cornell University

GENERAL AREAS OF RESEARCH

Child Abuse and Neglect
 Cognitive Development
 Cognitive Neuroscience
 Memory and Forgetting
 Judgment and Decision Making
 Mathematical Psychology
 Psychology and Law

RECENT RESEARCH GRANTS

“Developmental Reversals in Children’s False Memories for Experienced Events.” Marsden Fund. \$720,000

“Development of a New Analytical Tool for Early Detection of Mild Cognitive Impairment and Alzheimer’s Dementia”, NIFA \$40,000

“Low-Burden Tools for Improving Prediction and Diagnosis of Cognitive Impairment,” National Institutes of Health. \$764,069

“Interventions for risk reduction and avoidance in youth,” National Institutes of Health.

\$2,250,000

"Children's Spontaneous False Memories for Traumatic Medical Experiences," National Science Foundation.

\$251,623

"Processes that Control Children's False Memory Reports: Recollection Rejection and Phantom Recollection," National Science Foundation.

\$300,000

AWARDS AND HONORS

Distinguished Fellow, Sage Center for the Study of the Mind, Santa Barbara, CA
Board of Governors, Arizona Educational Research Association
FABBS Foundation Gallery of Scientists
Fellow, Division of Developmental Psychology, American Psychological Association
Fellow, Division of Educational Psychology, American Psychological Association
Fellow, Division of Experimental Psychology, American Psychological Association
Fellow, Division of General Psychology, American Psychological Association
Fellow, Association of Psychological Scientists
Fellow, Experimental Division, Canadian Psychological Association
Governor of Arizona's Spirit of Excellence Recognition Award for Achievements in Higher Education
Judge Advocate General's Trial Defense Services Medal, United States Army
National Academy of Education
Past President, Developmental Psychology Section, Canadian Psychological Association
SUNY Chancellor's Award for Scholarship and Creative Activity
William James Distinguished Lecturer, Association for Psychological Science

LEARNED SOCIETIES

American Association for the Advancement of Science
American Psychological Association:
 American Psychology and Law Society
 Division of Developmental Psychology
 Division of Experimental Psychology
 Division of Educational Psychology
 Division of General Psychology
 Division of Theoretical and Philosophical Psychology
Association for Psychological Science
Psychonomic Society
Rocky Mountain Psychological Association
Society for Research in Child Development

EDITORSHIPS

Editor, *Developmental Review*
Past Editor, *Advances in Cognitive Development Research*
Past Editor, *Springer-Verlag Series in Cognitive Development*
Past Associate Editor, *Behavioral and Brain Sciences*
Past Associate Editor, *Child Development*

OTHER SCIENTIFIC EDITING

Guest Editor, *Developmental Review*, special issue on mathematical models of development
Guest Editor, *Developmental Review*, special issue on resource theories of cognitive development
Guest Editor, *Psychological Science*, Piaget centennial issue
Guest Editor, *Learning and Individual Differences*, Children's False Memories. I.
Guest Editor, *Learning and Individual Differences*, Children's False Memories. II.
Editorial Board Memberships: *Journal of Experimental Psychology: Learning, Memory, and Cognition*
Past Editorial Board Memberships, *American Journal of Mental Deficiency; Behavioral and Brain Sciences; Contemporary Educational Psychology; Developmental Psychology (1970s); Journal of Behavioral Decision Making, Journal of Child Psychology and Psychiatry; Monographs of the Society for Research in Child Development*

RECENT SERVICE ACTIVITIES

Board of Scientific Advisors, Cornell Institute for Research on Children (a National Science Foundation research center)
Bronfenbrenner Award Committee, American Psychological Association
Committee on Memory and Law, British Psychological Society
College of Reviewers, Canada Council Research Chairs Program
Consultant on false memory research and the law, Supreme Court of Arizona
Consultant on child investigative interviewing, Arizona Department of Economic Security
Consultant on Educational Technology, Assessment Technology, Inc.
Executive Committee, Division of Educational Psychology, American Psychological Association
Early Career Award Committee, Division of Educational Psychology, American Psychological Association
Lucent Technologies/University of Arizona Alliance
Faculty, Trial Practice Section, Arizona Bar Association

Faculty, Trial Practice Section, Pima County Bar Association
National Institutes of Health, BPD4 Study Section
National Institutes of Health, NHLBI Study Section
Program Committee, American Psychological Society
Scientists for the Accurate Communication of Data
Supervisory Committee, Child and Family Law Clinic, University of Arizona College of
Law
United States Army, Instructor, Trial Defense Services, Division of the Judge Advocate
General
Working Party on Memory and the Law, British Psychological Association

FORENSIC CASE WORK (qualified by the Court as an expert witness)**

Amirault v. State of Massachusetts
Barnard v. Sedwick
Cameron v. Krauter
Casey v. La Petite Academy et al.
Catalina Council v. Hunter
Consentino v Terrible Herbst
Coons v. Chamberlain et al.
Doe v. Catholic Diocese of Tucson
****Dosh v. Block**
Ford v. Catholic Diocese of Boston
Donnie Frei v. Catholic Diocese of Tucson
*John Doe, James Doe, and Joseph Doe v. Catholic Archbishop of Seattle, Catholic
Bishop of Spokane, and Patrick O'Donnell*
Kobenan v. Amalgamated Bank
****Mead v. Marsh**
Michaels v. State of New Jersey
Mitchell v. House of Hope
Mother No. 1 and Father No. 1 on behalf of Child No. 1 v. Anchorage School District
Norrell v. Crested Butte Mountain Resort
****Porter v. Family Alternatives**
Senick v. La Petite Academy et al.
Smith v. State of Illinois
****State of Arizona v. Robert Aceves**
State of Arizona v. Jose Ahumada
State of Arizona v. Arturo Berrellez
State of Arizona v. Jose Cruz
State of Arizona v. Jason Dean
****State of Arizona v. Jose Dicochea**
State of Arizona v. Eduardo Domingez
State of Arizona v. Felix
****State of Arizona v. Gastellum**
State of Arizona v. Gomez

State of Arizona v. Godinez
State of Arizona v. Jose Grande
State of Arizona v. Lemon
***State of Arizona v. Light*
State of Arizona v. Lopez
State of Arizona v. Lynch
***State of Arizona v. Marietta*
***State of Arizona v. Mejia1*
State of Arizona v. Mejia2
State of Arizona v. Nordstrom
State of Arizona v. Pacheco-Beltran
State of Arizona v. Porzel
State of Arizona v. Pritchard
***State of Arizona v. Ramsey1*
***State of Arizona v. Ramsey2*
State of Arizona v. Rodriguez
***State of Arizona v. Roman*
***State of Arizona v. Sagarnaga*
State of Arizona v. Sagasta
State of Arizona v. Speers
State of Arizona v. Sanchez
State of Arizona v. Sweeney
State of Arizona v. Tucker
State of Arizona v. Vickroy
***State of Arizona v. Williams*
State of California v. Benson
***State of California v. Henderson*
***State of California v. Kosher*
State of California v. Silapie
State of Connecticut v. Hardy
State of Connecticut v. Taylor
***State of Illinois v. Cardamone*
***State of Illinois v. DeBord*
State of Illinois v. Otoniel Frutis
State of Illinois v. R.W., a minor
State of Illinois v. Vasilikos
State of Illinois v. Wilson
***State of Kentucky v. Daryl Parker*
State of Maryland v. Morales
***State of Missouri v. Connolly*
State of Missouri v. Griffith
State of Missouri v. Nowak
***State of Missouri v. Scott*
State of Missouri v. Sarowski
State of Missouri v. Stelbrink
***State of New Jersey v. Gil*

State of New Jersey v. R.D.
State of New York v. Casey
State of New York v. Green
***State of Ohio v. Lewis Sayre*
State of Pennsylvania v. Davis
*** State of Pennsylvania v. Kohl*
***State of South Carolina v. Simpson*
State of South Carolina v. Porch
State of Texas v. Norris
State of Texas v. Gonzalez
***State of Utah v. Julian*
***State of Washington v. Highberg*
***State of Washington v. Mou*
***State of Wisconsin v. Eimerman*
State of Wisconsin v. Wangard
United States v. Cornwell
United States v. Fulks
United States v. Gurley
United States v. Raush
United States v. Rolan
***United States v. Waldo*
United States v. Williams
***Watson v. Phoenix Diocese*

PUBLICATIONS

Journal Articles and Chapters

- Brainerd, C. J., & Reyna, V. F. (in press). Developmental reversals in false memory: Development is complementary, not compensatory. *Developmental Psychology*.
- Brainerd, C. J., & Reyna, V. F. (in press). Complementarity in false memory illusions. *Journal of Experimental Psychology: General*.
- Brainerd, C. J., & Reyna, V. F. (in press). Replication, registration, and scientific creativity. *Perspectives on Psychological Science*.
- Brainerd, C. J. (in press). Reliability is not readiness. In R. J. Sternberg (Ed.), *My biggest research mistake*. New York: Sage.
- Brainerd, C. J., & Bookbinder, S. H. (in press). The semantics of emotion in false memory. *Emotion*.

- Chen, X. R., Gomes, C. F. A., & Brainerd, C. J. (in press). Explaining recollection without remembering. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
- Nakamura, K., & Brainerd, C. J. (2017). Disjunction and conjunction fallacies in episodic memory. *Memory, 24*, 1009-1025.
- Brainerd, C. J., Nakamura, K., & Reyna, V. F. (2017). Overdistribution illusions: Categorical judgments produce them, confidence ratings reduce them. *Journal of Experimental Psychology: General, 146*, 20-40.
- Bookbinder, S. H., & Brainerd, C. J. (2017). Emotionally negative pictures enhance gist memory. *Emotion, 17*, 102-119.
- Bookbinder, S. H., & Brainerd, C. J. (2016). Emotion and false memory: The context-content paradox. *Psychological Bulletin, 142*, 315-351.
- Brainerd, C. J., & Reyna, V. F. (2016). Fuzzy-trace theory and lifespan cognitive development. *Developmental Review, 38*, 89-121.
- Reyna, V. F., Corbin, J.C., Weldon, R.B., & Brainerd, C. J. (2016). How fuzzy-trace theory predicts true and false memories for words, sentences, and narratives. *Journal of Applied Research in Memory and Cognition, 5*, 1-9.
- Corbin, J. C., Reyna, V. F., Weldon, R. B., & Brainerd, C. J. (2016). How reasoning, judgment, and decision making are colored by gist-based intuition: A fuzzy-trace theory approach. *Journal of Applied Research in Memory and Cognition, 5*, 344-355.
- Brainerd, C. J. (2015). Alzheimer's disease. In Bornstein, M. H., Arterberry, M. E., Fingerman, K. L., & Lansford, J. E., (Eds.). *SAGE Encyclopedia of Lifespan Human Development*. New York: Sage.
- Brainerd, C. J. (2015). Eyewitness testimony. In Bornstein, M. H., Arterberry, M. E., Fingerman, K. L., & Lansford, J. E., (Eds.). *SAGE Encyclopedia of Lifespan Human Development*. New York: Sage.
- Brainerd, C. J., Gomes, C. F. A., & Nakamura, K. (2015). Dual recollection in episodic memory. *Journal of Experimental Psychology: General, 144*, 816-843.
- Brainerd, C. J., Wang, Z., Reyna, V. F., & Nakamura, K. (2015). Episodic memory does not add up: Verbatim-gist superposition predicts violations of the additive law of probability. *Journal of Memory and Language, 84*, 224-245.
- Brainerd, C. J. (2015). Things Ken Spence never told us. In R. J. Sternberg (Ed.), *Academic leadership*. New York: Rowman-Littlefield.

- Brainerd, C. J., & Reyna, V. F. (2015). Memory and knowledge in theories of episodic memory. In J. Raaijmakers & A. Criss (Eds.), *Cognitive modeling in perception and memory: A festschrift for Richard M. Shiffrin*. London: Psychology Press.
- Brainerd, C. J., Gomes, C. F. A., & Moran, R. (2014). The two recollections. *Psychological Review*, *121*, 563-599.
- Reyna, V. F., & Brainerd, C. J. (2014). The fuzzy universality of probability judgment. *Proceedings of the National Academy of Sciences USA*, *111*(48), 16984-16985. doi: 10.1073/pnas.1420118111
- Brainerd, C. J., Holliday, R. E., Nakamura, K., & Reyna, V. F. (2014). Conjunction illusions and conjunction fallacies in episodic memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *40*, 1610-1623. doi: 10.1037/xlm000001
- Brainerd, C. J., Reyna, V. F., Gomes, C. F. A., Kenney, A. E., Gross, C. J., Taub, E. S., & Spreng, R. N. (2014). Dual-retrieval models and neurocognitive impairment. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *40*, 41-65. doi: 10.1037/a0034057
- Gomes, C. F. A., Brainerd, C. J., Nakamura, K., & Reyna, V. F. (2014). Markovian interpretations of dual retrieval processes. *Journal of Mathematical Psychology*, *59*, 50-64.
- LaTour, K. A., LaTour, M. S., & Brainerd, C. J. (2014). Fuzzy-trace theory and “smart” false memories: Implications for advertising. *Journal of Advertising*, *43*, 3-17.
- Gomes, C. F. A., & Brainerd, C. J. (2014). Dual processes in the development of reasoning: The memory side of the theory. In P. Barrouillet & C. Gauffroy (Eds.), *The development of thinking and reasoning*. Hove, UK: Psychology Press.
- Gomes, C. F. A., Cohen, B. R., Desai, A., Brainerd, C. J., & Reyna, V. F. (2014). Aging and false memory: Fuzzy-trace theory and the elderly eyewitness. In M. P. Toglia, D. Ross, J. Pozzulo, & E. Pica (Eds.), *The elderly eyewitness in court*. New York: Taylor & Francis.
- Brainerd, C. J. (2013). Developmental reversals in false memory: A new look at the reliability of children’s evidence. *Current Directions in Psychological Science*, *22*(5), 335-341. doi: 10.1177/0963721413484468
- Brainerd, C. J. (2013). Murder must memorise. *Memory*, *21*(5), 547-555. doi: 10.1080/09658211.2013.791322
- Brainerd, C. J., Wang, Z., & Reyna, V. F. (2013). Superposition of episodic memories: Overdistribution and quantum models. *Topics in Cognitive Science*, *5*, 773-799. . doi: 10.1111/tops.12039

- Brainerd, C. J., & Reyna, V. F. (2013). Dual processes in memory development: Fuzzy-trace theory. In P. J. Bauer & R. Fivush (Eds.), *The Wiley Handbook on the Development of Children's Memory* (pp. 480-512). New York: Wiley & Sons.
- Corbin, J.C., Wilhelms, E.A., Reyna, V.F., & Brainerd, C.J. (2013). Theories and processes in memory development: Childhood to adolescence. In R. E. Holliday & T. Marche, (Eds.), *Child forensic psychology* (pp. 65-94). Basingstroke: Palgrave-Macmillan.
- Brainerd, C. J., Reyna, V. F., Petersen, R. G., Smith, G. E., Kenney, A. E., Gross, C. J., Taub, E. S., Plassman, B. L., & Fisher, G. G. (2013). The apolipoprotein E genotype predicts longitudinal transitions to mild cognitive impairment but not to Alzheimer's dementia: Findings from a nationally representative study. *Neuropsychology*, 27(1), 80-94. doi:10.1037/a0030855
- Brainerd, C.J., Aydin, C., & Reyna, V.F. (2012). Development of dual-retrieval processes in recall: Learning, forgetting, and reminiscence. *Journal of Memory and Language*, 66, 763-788. doi:10.1016/j.jml.2011.12.002
- Brainerd, C. J., & Reyna, V. F. (2012). Reliability of children's testimony in the era of developmental reversals. *Developmental Review*, 32, 224-267. doi: 10.1016/j.dr.2012.06.008
- Brainerd, C. J., Reyna, V. F., Holliday, R. E., & Nakamura, K. (2012). Overdistribution in source memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 38, 413-439. doi:10.1037/a0025645
- Gomes, C. F. A., Brainerd, C. J., & Stein, L. M. (2012). Effects of emotional valence and arousal on recollective and nonrecollective recall. *Journal of Experimental Psychology: Learning, Memory, & Cognition*. Advance online publication. doi:10.1037/a0028578
- Marche, T.A. & Brainerd, C.J. (2012). The role of phantom recollection in false recall. *Memory & Cognition*, 40, 902-917. doi:10.3758/s13421-012-0195-3
- Zember, E., Brainerd, C.J., Reyna, V.F., Kopko, K.A. (2012). The science of law and memory. In E. Wethington & R. Dunifon (Eds.), *Research for the public good: Applying methods of translational research to improve human health and well-being* (pp.147-167). Washington, DC: American Psychological Association Press. doi:10.1037/13744-007
- Brainerd, C. J., Reyna, V. F., & Holliday, R. E. (2012). Development of recollection: A fuzzy-trace theory perspective. In S. Ghetti & P. J. Bauer (Eds.), *Origins and development of recollection: Perspectives from psychology and neuroscience* (pp. 101-143). New York: Oxford University Press.
- Holliday, R.E., Humphries, J.E., Brainerd, C.J. & Reyna, V.F. (2012). Interviewing witnesses

- and victims. In G. Davies, A. R. Beech (Eds.), *Forensic psychology: Crime, justice, law, interventions* (pp. 115-134). Chichester, UK: Wiley.
- Reyna, V. F., & Brainerd, C. J. (2011). Dual processes in decision making and developmental neuroscience: A fuzzy-trace model. *Developmental Review, 31*, 180-206. doi: 10.1016/j.dr.2011.07.004
- Brainerd, C.J., Reyna, V.F., Petersen, R.C., Smith, G.E., & Taub, E.S. (2011). Is the apolipoprotein E genotype a biomarker for mild cognitive impairment? Findings from a nationally representative study. *Neuropsychology, 25*, 679-689. doi:10.1037/a0024483
- Brainerd, C. J., Reyna, V. F., & Zember, E. (2011). Theoretical and forensic implications of developmental studies of the DRM illusion. *Memory & Cognition, 39*, 365-380. doi:10.3758/s13421-010-0043-2
- Holliday, R. E., Brainerd, C. J., & Reyna, V. F. (2011). Developmental Reversals in False Memory: Now you see them, now you don't! *Developmental Psychology, 47*(2), 442-449. doi:10.1037/a0021058
- Marche, T. A., Brainerd, C. J., & Reyna, V. F. (2010). Distinguishing true from false memories in forensic contexts: Can phenomenology tell us what is real? *Applied Cognitive Psychology, 24*, 1168-1182. doi:10.1002/acp.1629
- Brainerd, C. J., & Reyna, V. F. (2010). Recollective and nonrecollective recall. *Journal of Memory and Language, 63*, 425-445. doi:10.1016/j.jml.2010.05.002
- Brainerd, C. J., Holliday, R. E., Reyna, V. F., Yang, Y., & Togliani, M. P. (2010). Developmental reversals in false memory: Effects of emotional valence and arousal. *Journal of Experimental Child Psychology, 107*, 137-154. doi:10.1016/j.jecp.2010.04.013
- Brainerd, C. J., & Reyna, V. F., & Aydin, C. (2010). Remembering in contradictory minds: Disjunction fallacies in episodic memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 36*, 711-735. doi:10.1037/a0018995
- Holliday, R.E., Brainerd, C.J. & Reyna, V.F. (2010). Interviewing witnesses and victims. In G. Davies, C. Hollin & R. Bull (Eds). *Forensic Psychology*. Wiley.
- Brainerd, C. J., Reyna, V. F., & Howe, M. L. (2009). Trichotomous processes in early memory development, aging, and neurocognitive impairment: A unified theory. *Psychological Review, 116*, 783-832. doi:10.1037/a0016963
- Odegard, T. N., Cooper, C. M., Lampinen, J. M., Reyna, & V. F., Brainerd, C. J. (2009). Children's eyewitness memory for multiple real-life events. *Child Development, 80*, 1877-1890. doi:10.1111/j.1467-8624.2009.01373.x

- Holliday, R. E., Brainerd, C. J., Reyna, V. F., & Humphries, J. E. (2009). The cognitive interview: Research and practice across the lifespan. In R. Bull, T. Valentine, & T. Williamson (Eds.), *Handbook of psychology of investigative interviewing: Current developments and future directions*. New York: Wiley and Sons.
- Brainerd, C. J., Stein, L. M., Silveira, R. A., Rohenkohl, G., & Reyna, V. F. (2008). How does negative emotion cause false memories? *Psychological Science, 19*, 919-925. doi:10.1111/j.1467-9280.2008.02177.x
- Brainerd, C. J., & Reyna, V. F., & Ceci, S. J. (2008). Developmental reversals in false memory: A review of data and theory. *Psychological Bulletin, 134*, 343-382. doi:10.1037/0033-2909.134.3.343
- Brainerd, C. J., Reyna, V. F., Ceci, S. J., & Holliday, R. E. (2008). Understanding developmental reversals in false memory: Reply to Ghetti (2008) and Howe (2008). *Psychological Bulletin, 134*, 773-777. doi:10.1037/0033-2909.134.3.343
- Brainerd, C. J., & Reyna, V. F. (2008). Episodic over-distribution: A signature effect of familiarity without recollection. *Journal of Memory and Language, 58*, 765-786. doi:10.1016/j.jml.2007.08.006
- Brainerd, C. J., Yang, Y., Howe, M. L., Reyna, V. F., & Mills, B. A. (2008). Semantic processing in “associative” false memory. *Psychonomic Bulletin & Review, 15*, 1035-1053. doi:10.3758/PBR.15.6.1035
- Brainerd, C. J. (2008). Kissing cousins but not identical twins: The denominator neglect and base-rate respect models. *Behavioral and Brain Sciences, 30*, 257-258. doi: 10.1017/S0140525X07001689
- Brainerd, C. J., & Reyna, V. F. (2008). Developmental trends in spontaneous false memory, with implications for the law. In M. L. Howe, G. S. Goodman, & D. Cicchetti (Eds.), *Stress, trauma, and children’s memory development: Neurobiological, cognitive, clinical, and legal perspectives*. New York: Oxford University Press.
- Holliday, R. E., Brainerd, C. J., & Reyna, V. F. (2008). Recall of details never experienced: Effects of age, repetition, and semantic cues. *Cognitive Development, 23*, 67-78. doi: 10.1016/j.cogdev.2007.05.002
- Odegard, T. N., Brainerd, C. J., & Reyna, V. F. (2008). Attention to global-gist processing eliminates age effects in false memories. *Journal of Experimental Child Psychology, 99*, 96-113. doi:10.1016/j.jecp.2007.08.007
- Holliday, R. E., Brainerd, C. J., & Reyna, V. F. (2008). Interviewing vulnerable witnesses. In G. Davies, C. Hollin, & R. Bull (Eds.), *Forensic psychology* (pp. 85-110). New York: Wiley.

- Reyna, V. F., & Brainerd, C. J. (2008). Numeracy, ratio bias, and denominator neglect in judgments of risk and probability. *Learning and Individual Differences, 18*, 89-107. doi:10.1016/j.lindif.2007.03.011
- Reyna, V. F., & Brainerd, C. J. (2007). The importance of mathematics in health and human judgment: Numeracy, risk communication, and medical decision making. *Learning and Individual Differences, 17*, 147-159. doi:10.1016/j.lindif.2007.03.010
- Brainerd, C. J., & Reyna, V. F. (2007). Explaining developmental reversals in false memory. *Psychological Science, 18*, 442-448. doi:10.1111/j.1467-9280.2007.01919.x
- Reyna, V. F., Mills, B., Estrada, S., & Brainerd, C. J. (2007). False memory in children: Data, theory, and legal implications. In M. P. Toglia, J. D. Read, D. F. Ross, & R. C. L. Lindsay (Eds.), *Handbook of eyewitness psychology*. Mahwah, NJ: Erlbaum.
- Brainerd, C. J., Forrest, T. J., Karibian, D., & Reyna, V. F. (2006). Development of the false-memory illusion. *Developmental Psychology, 42*, 962-979. doi:10.1080/09658210600648449
- Brainerd, C. J., Reyna, V. F., & Estrada, S. (2006). Recollection rejection of false narrative statements. *Memory, 14*, 672-691. doi:10.1080/09658210600648449
- Brainerd, C. J. (2006). *Developmental Review's* most influential articles. *Developmental Review, 26*, 1-14. doi: 10.1016/j.dr.2005.09.003
- Reyna, V. F., Adam, M. B., Poirier, K., LeCroy, C. W., & Brainerd, C. J. (2005). Risky decision-making in childhood and adolescence: A fuzzy-trace theory approach. In J. Jacobs & P. Klaczynski (Eds.), *The development of judgment and decision-making in children and adolescents* (pp. 77-106). Mahwah, NJ: Erlbaum.
- Brainerd, C. J., & Wright, R. (2005). Forward associative strength, backward associative strength, and the false memory illusion. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 31*, 554-567. doi: 10.1037/0278-7393.31.3.554
- Marche, T., Brainerd, C. J., Lang, D. G., & Loehr, J. D. (2005). Item level directed forgetting diminishes the false memory illusion. *Memory, 13*, 749-758.
- Brainerd, C. J. (2004). Dropping the other U: An alternative approach to U-shaped developmental functions. *Cognition and Development, 5*, 81-88.
- Brainerd, C. J., & Reyna, V. F. (2004). Fuzzy-trace theory and memory development. *Developmental Review, 24*, 396-439. doi:10.1016/j.dr.2004.08.005
- Brainerd, C. J., Holliday, R. E., & Reyna, V. F. (2004). Behavioral measurement of remembering phenomenologies: So simple a child can do it. *Child Development, 75*,

505-522. doi:10.1111/j.1467-8624.2004.00689.x

- Brainerd, C. J., Reyna, V. F., Wright, R., & Mojardin, A. H. (2003). Recollection rejection: False-memory editing in children and adults. *Psychological Review*, *110*, 762-784. doi:10.1037/0033-295X.110.4.762 [This paper received the National Award for World Science Impact from Thomson-Reuters and the Mexican Consortium of Universities.]
- Brainerd, C. J., Payne, D. G., Wright, R., & Reyna, V. F. (2003). Phantom recall. *Journal of Memory and Language*, *48*, 445-467. doi:10.1016/S0749-596X(02)00501-6
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PRESENTATIONS TO LEARNED SOCIETIES

Developmental reversals in false memory and reasoning illusions. Paper presented as part of the symposium, "When Man Bites Dog: What do Developmental Reversals Tell Us About Cognitive Development, Aging, and the Brain?" Psychonomic Society, Vancouver, British Columbia, November, 2017.

Complementarity in False Memory Illusions. Paper presented at Psychonomic Society, Vancouver, British Columbia, November, 2017.

Negative arousing moods reduce false recognition. Poster presented at Psychonomic Society, Vancouver, British Columbia, November, 2017.

Is familiarity really a fast process? A model-based approach to the relative speed of retrieval processes. Poster presented at Psychonomic Society, Vancouver, British Columbia, November, 2017.

Developmental changes in witness' false memories. Paper presented as part of the symposium, "Developmental differences across memory paradigms: Can we generalize from the lab to the courtroom?", American Psychological Association, Washington, DC, August 2017.

Remembering words versus events: Associations between suggestibility and true and false memory. Paper presented as part of the symposium, "Developmental differences across memory paradigms: Can we generalize from the lab to the courtroom?", American Psychological Association, Washington, DC, August 2017.

Dual recollection theory. Paper presented at Psychonomic Society, Boston, MA, 17-20 November 2016.

Retrieval processes in mood-related false memory. Poster presented at Psychonomic Society, Boston, MA, 17-20 November 2016.

The processes behind memory fallacies: An investigation of in memory disjunction and conjunction illusions. Poster presented at Psychonomic Society, Boston, MA, 17-20 November 2016.

Memory illusions: Categorical judgments produce them, confidence ratings reduce them. Paper presented at the annual meeting of the Psychonomic Society, Chicago, IL (November, 2015).

Process effects of discrete emotions on false memory for pictures. Poster presented at the annual meeting of the Psychonomic Society, Chicago, IL (November, 2015).

Memory is illogical too: Disjunction and conjunction illusions in episodic memory. Paper presented at the annual meeting of the Psychonomic Society, Long Beach, CA (November, 2014).

Negative emotion as gist: Evidence from picture recognition. Poster presented at the annual meeting of the Psychonomic Society, Long Beach, CA (November, 2014).

Dual-retrieval conceptions of free recall. Poster presented at the annual meeting of the Psychonomic Society, Long Beach, CA (November, 2014).

Fuzzy-trace theory and cognitive development. First Jean Piaget Conference, University of Geneva, Geneva, Switzerland (June, 2014).

Murder must memorize. Paper presented as part of the symposium, "Memory & the law: Lessons from cases," Psychonomic Society, Toronto, Canada, November 2013.

Disfunction fallacies in episodic memory. Poster presented at the Psychonomic Society, Toronto, Canada, November, 2013.

Individualized measurement of dual-retrieval processes in neurocognitive impairment. Paper presented at the Psychonomic Society, Toronto, Canada, November, 2013.

Dual process in recall. Paper presented at the Psychonomic Society, Minneapolis, MN, November, 2012.

Colored by intuition: How gist-based "false" memories support adaptive judgments and decisions. Paper presented at the Psychonomic Society, Minneapolis, MN, November, 2012.

A low-burden tool for measuring memory declines in healthy aging and neurocognitive impairment. Poster presented at the Psychonomic Society, Minneapolis, MN, November, 2012.

Modeling episodic memory declines in Alzheimer's dementia and mild cognitive impairment: Differential characterization and early identification. Paper presented at the Psychonomic

- Society, Seattle, WA, November, 2011.
- Emotional recall: A dual-trace analysis. Poster presented at the Psychonomic Society, Seattle, WA, November, 2011.
- How does emotion affect developmental reversals in false memory? Paper presented as part of the symposium, "Children's memory for emotional information," Society for Research in Child Development, Montreal, Quebec, Canada, April, 2011.
- Memory is irrational, too: Disjunction fallacies in episodic memory. Paper presented at Psychonomic Society, St. Louis, MO, November, 2010.
- Disjunction fallacies in probability judgments about the past and future. Paper presented at Psychonomic Society, St. Louis, MO, November, 2010.
- Do Backward Associations Cause False Recall? Poster presented at Psychonomic Society, St. Louis, MO, November, 2010.
- False memory across the life-span. Plenary address, 19^{ème} Cours Avancé des Archives Jean Piaget: Thinking, Rationality, and Development, Geneva, Switzerland, July, 2010.
- Mood effects on semantic memory for word emotionality. Poster presented at Association for Psychological Science, Boston, MA, May, 2010.
- Disjunction fallacies in episodic memory: Integrating fuzzy-trace theory and support theory. Paper presented at Psychonomic Society, Boston, MA, November, 2009.
- A new model and data on early memory development. Paper presented at Psychonomic Society, Boston, MA, November, 2009.
- New modeling procedures, with data on aging, cognitive impairment, and psychosis. Paper presented at Psychonomic Society, Boston, MA, November, 2009.
- Measuring true and phantom recollection in younger and older adults with fuzzy-trace theory's dual-retrieval model. Paper presented at Psychonomic Society, Boston, MA, November, 2009.
- Reversing developmental reversals in false memory. Paper presented at Psychonomic Society, Boston, MA, November, 2009.
- Distinguishing true from false memories in forensic contexts: Can phenomenology tell us what's real? Paper presented at Psychonomic Society, Boston, MA, November, 2009.
- Effects of arousal and valence on children's true and false memories. Paper presented at Society for Research in Child Development, Denver, CO, April, 2009.

Developmental reversal in false memory under verbatim-processing conditions. Paper presented at Society for Research in Child Development, Denver, CO, April, 2009.

Predicting verbatim loss and gist sparing in the aged and cognitively impaired. Paper presented at Psychonomic Society, Chicago, IL, November, 2008.

Emotion and false memory: The Cornell/Cortland norms. Paper presented at Psychonomic Society, Chicago, IL, November, 2008.

Child-normed category materials produce age differences in false memories. Poster presented at Psychonomic Society, Chicago, IL, November, 2008.

Distinguishing true from false memories: Gist-based processing predicts ability to use phenomenology to discriminate memory. Poster presented at Psychonomic Society, Chicago, IL, November, 2008.

Rejection by familiarity, rejection by recollection. Poster presented at Psychonomic Society, Chicago, IL, November, 2008.

How do valence and arousal affect false memory? A context-target framework. Poster presented at American Psychological Society, Chicago, IL, November, 2008.

Semantic basis of the false memory illusion. Paper presented at Psychonomic Society, Long Beach, CA, November, 2007, November, 2008.

Recollection of details never experienced: The effects of encoding and age. Paper presented at Psychonomic Society, Long Beach, CA, November, 2007.

Emotion and delay effects on false memories. Paper presented at Psychonomic Society, Long Beach, CA, November, 2007.

Dual processes and development: Explaining contradictory relations between risk taking and risk perception. Paper presented at Psychonomic Society, Long Beach, CA, November, 2007.

Gist effects of emotion on true and false memory. Paper presented at Psychonomic Society, Long Beach, CA, November, 2007.

Pinpointing the process effects of emotion on false memory. Paper presented at the joint meeting of the Psychonomic Society and the Experimental Psychology Society, Edinburgh, Scotland, July, 2007.

False memories about true emotions: The effect of emotional labeling on memory. Paper presented at the joint meeting of the Psychonomic Society and the Experimental Psychology Society, Edinburgh, Scotland, July, 2007.

Developmental reversals in false memory. Paper presented as part of the symposium, "False

memory increases from childhood to adulthood: Why are children more accurate?"
Society for Research in Child Development, Boston, MA, April, 2007.

Measuring dual-retrieval processes in aging and cognitive impairment. Paper presented at Psychonomic Society, Houston, TX, November, 2006.

Repeated measures conjoint recognition. Paper presented at Psychonomic Society, Houston, TX, November, 2006.

Emotion and false memory. Paper presented at Psychonomic Society, Houston, TX, November, 2006.

Memory illusions for conjunctions in children and adults: The effect of thematic context. Paper presented at Psychonomic Society, Houston, TX, November, 2006.

Recollection rejection of constructed false memories. Paper presented at Psychonomic Society, Toronto, Ontario, Canada, November, 2005.

Effects of retrieval practice on false recall. Paper presented at Psychonomic Society, Toronto, Ontario, Canada, November, 2005.

Memory illusions and repeated testing in children: The reversed DRM effect. Paper presented at Psychonomic Society, Toronto, Ontario, Canada, November, 2005.

Generating study items increases older children's reliance on gist and younger children's reliance on verbatim memories. Paper presented at Psychonomic Society, Toronto, Ontario, Canada.

Evaluating adult theories of false memory with developmental data. Paper presented at Psychonomic Society, Minneapolis, MN, November, 2004.

Conjoint recognition and the development of recollection and familiarity. Paper presented as part of the symposium, "Development of recollection and familiarity," Cognitive Development Society, San Diego, CA, October, 2005.

What theories of memory tell us about the brain: Aging, development and impairment. Presented at the Armadillo Southwest Cognition Conference, Arlington, TX, October, 2004.

What theories of memory tells us about the brain: Implications for aging, development, and impairment. Invited plenary address, American Psychological Association, Honolulu, HI, July, 2004.

Reducing false memories: recollection rejection, distinctiveness, and metacognition. Paper presented at Psychonomic Society, Vancouver, BC November, 2003.

Developmental changes in false memory following gist cuing and verbatim repetition. Paper

presented at Psychonomic Society, Vancouver, BC November, 2003.

Measuring true and phantom recollection with fuzzy-trace theory's dual-retrieval model. Paper presented at Psychonomic Society, Vancouver, BC November, 2003.

Fuzzy-trace theory and false-memory editing. Paper presented as part of the symposium "Mechanisms underlying the rejection of false memories," Society for Research in Child Development, Tampa, FL, April, 2003.

Gist cuing increases the false memory illusion in children. Paper presented at Society for Research in Child Development, Tampa, FL, April, 2003.

Predictive control of false memories. Paper presented as part of the Ellis-Battig Memory Symposium, Rocky Mountain Psychological Association, Denver, CO, April, 2003.

Are young children susceptible to the false-memory illusion. Paper presented at Psychonomic Society, Kansas City, MO, November, 2002.

Recollection rejection. Paper presented at Psychonomic Society, Orlando, FL, November, 2001.

Phantom recall. Paper presented at Psychonomic Society, Orlando, FL, November, 2001.

Directed forgetting of false memories: Comparing implicit associative responses and fuzzy-trace theory. Paper presented at Psychonomic Society, Orlando, FL, November, 2001.

Phantom recollection in children and adolescents. Paper presented at Psychonomic Society, Orlando, FL, November, 2001.

Fuzzy-trace theory and false memory, Invited Address, American Psychological Association, San Francisco, August, 2001.

Recollection rejection: Can young children spontaneously suppress false-memory reports? Paper presented as part of the symposium, "Current directions in forensic child psychology," Society for Research in Child Development, Minneapolis, MN, April, 2001.

Developmental trends in false memory. Paper presented as part of the symposium, "Developmental changes in false memory formation," Society for Research in Child Development, Minneapolis, MN, April, 2001.

Phantom recollection of words. Paper presented at Psychonomic Society, New Orleans, LA, November, 2000.

Test and dual-retrieval model of veridical and false recall. Paper presented at Psychonomic Society, New Orleans, LA, November, 2000.

Predicting individual differences in false memories. Poster presented at Psychonomic Society,

New Orleans, LA, November, 2000.

Dual-retrieval processes in recall. Paper presented at Psychonomic Society, Los Angeles, CA, November, 1999.

Children's retention of true and false memories: The role of trace decay. Paper presented as part of the symposium, "Stability and change in children's memory over time: The impact of internal and external events during the retention interval," Society for Research in Child Development, Albuquerque, New Mexico, April, 1999.

False recollection of specific experience. Paper presented at Psychonomic Society, Dallas, TX, November, 1998.

When truth is stranger than fiction. Paper presented at Psychonomic Society, Philadelphia, PA, November, 1997.

Modeling techniques for measuring conscious and unconscious memory. Workshop presented at the Society for the Scientific Study of Consciousness, Claremont, CA, May, 1997.

Why the verbatim-gist distinction is fundamental to memory. Invited address presented at Rocky Mountain Psychological Association, Reno, Nevada, April, 1997.

Persistence of children's false memories. Paper presented as part of the symposium, "Child abuse: The psychology/law interface," Society for Research in Child Development, Washington, DC, April, 1997.

A quarter-century of memory development research, Symposium presented at Society for Research in Child Development, Washington, DC, April, 1997.

Conjoint recognition. Paper presented at Psychonomic Society, Chicago, IL, November, 1996.

Children's memories of sexual abuse, Invited address presented at American Professional Society on the Abuse of Children, Tucson, AZ, September, 1996.

Jury reform: How is it working? Symposium presented at Arizona Bar Association, Tucson, AZ, June, 1996.

How children's true memories create false-memory responses. Paper presented as part of the symposium "Neointerference theory," American Psychological Society, New York, NY, July, 1995.

Children's false memories: Theory and data. Symposium presented at Society for Research in Child Development, Indianapolis, IN, March, 1995.

When is similarity distinctive? Paper presented at Psychonomic Society, St. Louis, MO, November, 1994.

Principles of fuzzy-trace theory. Orientation lecture presented at Society for Research in Child Development, New Orleans, LA, March, 1993.

New perspectives on the development of intuition. Symposium presented at Society for Research in Child Development, New Orleans, LA, March, 1993.

Fuzzy-trace theory: Principles and prospects. Invited address, Western Psychological Association and Rocky Mountain Psychological Association, Phoenix, AZ, April, 1993.

Developmental dissociations between verbatim and gist memories. Paper presented at Psychonomic Society, Washington, DC, November, 1993.

Memory interference in cognitive development. Paper presented as part of the symposium, "The basic processes revolution in memory development: The case of interference," American Psychological Association, Washington, DC, August, 1992.

The development of autosuggestibility in memory. Paper presented at Psychonomic Society, St. Louis, MO, November, 1992.

Age differences in recalling relevant and irrelevant information. Paper presented at Southwestern Society for Research in Human Development, 1992.

Theory and method in the study of children's cognitive triage. Paper presented at Society for Research in Child Development, Seattle, WA, April, 1991.

Theories of cognitive development for the 1990s. Symposium presented at Society for Research in Child Development, Seattle, WA, April, 1991.

Development of working memory. Symposium presented at International Society for the Study of Behavioral Development, Minneapolis, MN, July, 1991.

Fuzzy-trace theory. Paper presented as part of the symposium, "Development of working memory," International Society for the Study of Behavioral Development, Minneapolis, MN, July, 1991.

Fuzzy-trace theory and developmental stability in reminiscence. Paper presented at Psychonomic Society, San Francisco, CA, November, 1991.

Children's eyewitness recall. Address delivered to the Arizona Psychological Association, Tucson, AZ, October, 1990.

Triage III. Paper presented at Psychonomic Society, New Orleans, LA, November, 1990.
Development of forgetting: A disintegration/redintegration theory. Paper presented as part of the symposium, "Children's ability to remember witnessed events: Theoretical and applied perspectives," Society for Research in Child Development, Kansas City,

April, 1989.

A disintegration/redintegration theory of suggestibility in children's memory. Invited address at the American Psychological Association conference, "How suggestible is children's memory?" Cornell University, June, 1989.

Fuzzy-trace theory and children's cognitive triage. Paper presented at Psychonomic Society, Atlanta, GA, November, 1989.

V curves in memory development. Paper presented at Psychonomic Society, Chicago, November, 1988.

On the relationship between memory and judgment in opinion change. Paper presented at Psychonomic Society, Seattle, November, 1987.

Development of forgetting from long-term memory. Paper presented at Psychonomic Society, Boston, November, 1986.

Structural measurement theory and cognitive development. Paper presented as part of the Conference "Formal Modeling Techniques in Cognitive Development," Edmonton, May 1985.

Working memory and cognitive development. Kendon Smith Lecture, University of North Carolina, April, 1984.

Long-term memory deficits in learning-disabled children. Paper presented as part of the symposium, "Atypical Cognitive Development," Canadian Psychological Association, Ottawa, June, 1984.

Historical issues in children's concept learning. Paper presented as a part of the symposium, "Children's Concept Learning," International Congress of Psychology, Acapulco, Mexico, September, 1984.

Independence of reasoning and short-term memory in children's problem solving. Paper presented as part of the symposium, "After Piaget," International Congress of Psychology, Acapulco, Mexico, September, 1984.

Do children have to remember to reason? Paper presented at Psychonomic Society, San Antonio, November, 1984.

Independence of transitive reasoning and premise memory in children. Society for Research in Child Development, Detroit, April, 1983.

Stages-of-learning analysis of developmental interactions in recall. Society for Research in Child Development, Detroit, April, 1983.

Memory and cognitive development. Paper presented as part of the symposium "Recent Advances in Cognitive Development Research," Canadian Psychological Association, Winnipeg, June, 1983.

Locus of working-memory failures in classificatory and ordering concepts. Merrill-Palmer Society, Detroit, May, 1982.

The principle of aggregation in psychology. Merrill-Palmer Society, Detroit, May, 1982.

Working-memory analysis of children's mental arithmetic. Paper presented as part of the symposium, "Early Number Concepts," Society for Research in Child Development, Boston, April, 1981.

Working memory and children's probability judgments. Society for Research in Child Development, Boston, April, 1981

Model invariance in the developmental analysis of memory. Paper presented as part of the symposium, "Experimental Analysis of Memory Development," American Educational Research Association, Los Angeles, April, 1981.

Piaget and education. NATO Advanced Study Institute on Adaptive Systems, Devon, England, June, 1981.

The future of Piagetian psychology. Paper presented as part of the symposium "The Future of Piagetian Psychology," Society for Research in Child Development, San Francisco, March, 1979.

A quantitative framework for the study of children's intermediate size discrimination and transposition. Society for Research in Child Development, San Francisco, March, 1979.

A comparison of two theories of cognitive development during the school years. American Educational Research Association, San Francisco, April, 1979.

Mathematical models for conservation acquisition. Paper presented as part of the symposium, "Theoretical Approaches to Conservation Acquisition," American Educational Research Association, San Francisco, April, 1979.

A Neo-Piagetian approach to concept learning. Paper presented as part of the symposium, "New Approaches to Concept Learning," Midwestern Psychological Association, May, 1978.

The role of development in instructional theory. Paper presented as part of the symposium "Instructional Theory II," American Educational Research Association, New York, April, 1977.

The developmental analysis of children's concept learning. NATO Advanced Study Institute, "Structural/Process Models of Complex Behavior," Banff, Alberta, June, 1977.

- Group theory and discrimination shift behavior. NATO Advanced Study Institute, "Structural/Process Models of Complex Human Behavior," Banff, Alberta, June, 1977.
- Prior knowledge of rules and concept learning. Paper presented as part of the symposium "How Does Human Learning Take Place?" American Educational Research Association, Washington, April, 1975.
- Logical and empirical foundations of the ordinal theory of number development. Paper presented as part of the symposium "Basic Mathematical Concepts in Children," American Educational Research Association, Washington, April, 1975.
- On the validity of propositional logic as a model for adolescent intelligence. Paper presented as part of the symposium "New Perspectives in Formal Operations Reasoning," Society for Research in Child Development, Denver, April, 1975.
- Analysis and synthesis of research on children's ordinal and cardinal number concepts. Paper presented as part of the Conference on Number and Measurement, Center for the Study of Learning and Teaching Mathematics, University of Georgia, April, 1975.
- The long-term memory improvement effect: Memory improvement or concept development? Fifth Annual Interdisciplinary Conference on Structural Learning, Philadelphia, April, 1974.
- Structures of the whole: Is there any glue to hold the concrete-operational stage together? Paper presented as part of the symposium "Development of Logical and Quantity Concepts," Canadian Psychological Association, Windsor, June, 1974.
- The concept of structure in cognitive-developmental theory. Paper presented as part of the symposium "Structural Psychology: Indications of Convergence Toward a New Paradigm," American Psychological Association, New Orleans, August-September, 1974.
- Structures of thought in middle-childhood: Recent research on Piaget's concrete-operational groupements. Third Annual Interdisciplinary Conference on Structural Learning, Philadelphia, March-April, 1973.
- Evolution of number. Fourth Annual Interdisciplinary Conference on Structural Learning, Philadelphia, April, 1973.
- Structure and cognitive-developmental explanation. Paper presented as part of the symposium "Cognitive Development Throughout the Life Span," International Society for the Study of Behavioral Development, Ann Arbor, August, 1973.