

Vita
David Cyril Geary

Personal

Place of Birth: Providence, Rhode Island
 Date of Birth: June 7, 1957
 Current Work Address: Department of Psychological Sciences
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Education

Ph.D.	Developmental Psychology	1986
M.A.	University of California, Riverside	1984
M.S.	Clinical Child/School Psychology California State University at Hayward	1981
B.S.	Psychology University of Santa Clara	1979

Post Ph.D. Positions

2/10 to -	Member, Interdisciplinary Neuroscience Program
6/09 to 6/11	Thomas Jefferson Professor, University of Missouri System
9/05 to -	Curators' Professor, University of Missouri
9/00 to 8/03	Fredrick A. Middlebush Professor of Psychological Sciences Department of Psychological Sciences, University of Missouri
6/02 to 5/05	Chair, Department of Psychological Sciences University of Missouri
9/96 to -	Professor, Department of Psychological Sciences University of Missouri
8/89 to 8/93	Assistant Professor to associate professor, Department of Psychology, University of Missouri

- 8/87 to 7/89 Assistant Professor, Department of Psychology,
University of Missouri at Rolla, MO 65401
- 8/86 to 7/87 Visiting Assistant Professor, Department of Psychology,
University of Texas, El Paso, TX 79968
- 1/86 to 4/86 Associate in Psychology, Department of Psychology,
University of California, Riverside, CA 92521
- 9/85 to 6/86 Lecturer (Part-time), Department of Psychology,
California State University, San Bernardino, CA
- 9/84 to 6/86 Teaching Assistant, Department of Psychology,
University of California, Riverside, CA
- 6/84 to 12/85 Staff Research Associate, University of California,
Los Angeles, MRRC-UCLA Research Group, Lanterman State
Hospital, Pomona, CA
- 6/83 to 9/84 Professional Student Intern, Children's Residential and
Day Treatment Center, Riverside County, Riverside, CA
- 11/81 to 9/82 Crisis Counselor, Emergency Treatment Center, Mental
Research Institute, Palo Alto, CA
- 9/81 to 9/82 Behavioral Consultant, Regional Center of the East Bay,
Oakland, CA
- 10/79 to Health Psychology Research Assistant (volunteer) for Dr. M. Hovell (now at San 8/82
Diego State, and UCSD), Laboratory for the Study of Behavioral Medicine,
Stanford University School of Medicine, Stanford, CA
- 9/80 to 6/81 Intern School Psychologist, Castro Valley Unified
School District, Castro Valley, CA
- 9/79 to 6/81 Intern Counselor, Psychological/Educational Services
Center, California State University, Hayward, CA
- 9/79 to 6/80 Intern School Psychologist, New Haven Unified School
District, Union City, CA

National Appointments

- 4/06 to 4/08 Member, President's National Mathematics Advisory Panel; Chair, Learning
Processes Task Group

10/07 to Presidential (George W. Bush) Appointment as Member, National Board of
11/10 Directors, Institute for Education Sciences (U.S. Department of Education)

Funded and Pending Grants

The development of quantitative competencies in preschool children, NSF, (\$1,076,000), 7/31/12-6/30/16, pending, PI (30% effort).

Mathematics cognition: Development, neurobiology, learning, and instruction, NIH, U13, 5/1/13-4/30/17, Co-Investigator (7% effort).

Mathematical development in learning disabled children (\$3,302,500), NIH R01, 8/1/13-7/31/18, pending, PI.

The development of quantitative competencies in preschool children, (\$27,510), University of Missouri Research Board, 7/1/11-6/30/12, PI.

In utero exposure to the endocrine disruptor, Bisphenol A: A root cause for a wide range of epigenetic-based diseases?, University of Missouri Mizzou Advantage, (\$50,000), 6/1/11-12/31/12; Co-PI (PI, C. Rosenfeld).

Mathematical development in learning disabled children (\$2,042,460), R37 HD045914, MERIT Award, 8/1/08-7/31/13; PI.

Mathematical development in learning disabled children (\$1,779,452), NIH R01 HD045914, 9/24/03-7/31/08; PI.

Interventions in math learning disabilities: Cognitive and neural correlates, NIH R01 5R01HD059205; PI V. Menon (Stanford University School of Medicine), 12/1/09-11/30/14, subaward (\$129,950, 8% effort).

Longitudinal fMRI and DTI studies of math disabilities, NIH R01 HD047520 PI V. Menon (Stanford University School of Medicine), 7/1/10-06/30/15, subaward (\$162,530, 10% effort).

Learning disabilities in elementary mathematics (\$506,846), NIH R01 HD38283, 3/1/01 -1/1/04; PI.

Individual differences in arithmetical development (\$40,870), University of Missouri Research Board, 6/1/97-6/1/98.

Numerical cognition and math achievement (\$326,480), NIH R01 HD27931, 5/1/94-4/30/97 [No-cost extension, 5/1/97-4/30/98]; PI.

Numerical development in Chinese and American children (\$24,000), University of Missouri Research Board, 6/1/93-12/31/94.

Longitudinal and cross-sectional analyses of an early learning deficit in mathematics (\$27,026), Weldon Spring Competition, 5/89-10/91, with Dr. Brown and Dr. Samaranayake.

Numerical facility: Convergence of factor analytic and cognitive models (\$23,684). Air Force Office of Scientific Research 87-NL-162, 8/1/88-7/31/89; PI.

Honors

Scholarship, University of Santa Clara, 1975-79; Dean's Fellowship, University of California, 1982-83; Graduate Fellowship, University of California, 1983-84; Award for Excellence for Research on Intelligence, MENSA Education and Research Foundation, 1992; Chancellor's Award for Outstanding Faculty Research and Creative Activity in the Behavioral and Social Sciences, 1996; Nominee, Center for Advanced Study in the Behavioral Sciences; Who's Who in the World, 2001- , Who's Who in Science and Engineering, 2001 - , Who's Who in America, 2002- , Who's Who in American Education, 2006- , Who's Who in Medicine and Healthcare, 2006- ; Fellow, American Psychological Society; Honorable Mention, Best science books of the 1990s (*Male, female*), *Lingua franca*; National Institutes of Health MERIT Award; 2009 George A. Miller Award, American Psychological Association (outstanding journal article in general psychology) for Halpern et al. (2007); Fellow, American Association for the Advancement of Science (2011).

Publications

Books

Geary, D. C. (2010). *Male, female: The evolution of human sex differences* (second ed). Washington, DC: American Psychological Association.

Ellis, L., Hershberger, S., Field, E., Wersinger, S., Sergio, P., Geary, D., Palmer, C., Hoyenga, K., Hetsroni, A., & Karadi, K. (2008). *Sex differences: Summarizing more than a century of scientific research*. New York: Francis & Taylor.

Geary, D. C. (2005). *The origin of mind: Evolution of brain, cognition, and general intelligence*. Washington, DC: American Psychological Association. Japanese translation (2007). Tokyo, Japan: Baifukan. Translator: Ryo Oda; Spanish translation (2008). Mexico City, Mexico: Editorial El Manual Moderno: Translator José Luis Núñez Herrejón.

Geary, D. C. (1998). *Male, female: The evolution of human sex differences*. Washington, DC: American Psychological Association. French translation (2003) [*Hommes, femmes: L'Évolution des différences sexuelles humaines*] Brussels: de Boeck. Translator: Philippe Gouillou.

Geary, D. C. (1994). *Children's mathematical development: Research and practical applications*. Washington, DC: American Psychological Association.

Monographs

- Siegler, R., Carpenter, T., Fennell, F., Geary, D., Lewis, J., Okamoto, Y., Thompson, L., & Wray, J. (2010). *Developing effective fractions instruction for kindergarten through 8th grade: A practice guide* (NCEE #2010-4039). Washington, DC: National Center for Education Evaluation and Regional Assistance, Institute of Education Sciences, U.S. Department of Education.
- Geary, D. C. (2007). Educating the evolved mind: Conceptual foundations for an evolutionary educational psychology. In J. S. Carlson & J. R. Levin (Eds.), *Educating the evolved mind* (pp. 1-99, 177-202, Vol. 2, Psychological perspectives on contemporary educational issues). Greenwich, CT: Information Age.
- Halpern, D., Benbow, C., Geary, D. C., Gur, R., Hyde, J., & Gernsbacher, M. A. (2007). The science of sex differences in science and mathematics. *Psychological Science in the Public Interest*, 8 (No 1, 1-52).

Edited Volumes

- Lei, C., & Geary, D. C. (Eds.) (2007). Evolutionary psychology. *Acta Psychologica Sinica*, 39 (special issue, pp. 381-570).
- Geary, D. C. (Ed.) (2006). Evolutionary developmental psychology. *Developmental Review*, 26 (special issue, pp. 113-276).

National Mathematics Advisory Panel and State of California

- National Mathematics Advisory Panel. (2008). *Foundations for Success: Final Report of the National Mathematics Advisory Panel*. Washington, DC: United States Department of Education. <http://www.ed.gov/about/bdscomm/list/mathpanel/report/final-report.pdf>
- Geary, D. C., Boykin, A. W., Embretson, S., Reyna, V., Siegler, R., Berch, D. B., & Graban, J. (2008). Report of the task group on learning processes. In National Mathematics Advisory Panel, *Reports of the task groups and subcommittees* (pp. 4-i-4-221). Washington, DC: United States Department of Education. <http://www2.ed.gov/about/bdscomm/list/mathpanel/reports.html>
- California Department of Education. (1999). *Mathematics framework for California Public Schools: Kindergarten through grade twelve*. Sacramento, CA: Author.

Articles, Chapters, Reviews Senior author when in first or last position

In press/2012

- Geary, D. C., Hoard, M. K., Nugent, L., & Bailey, D. H. (2012). Mathematical cognition deficits in children with learning disabilities and persistent low achievement: A five year prospective study. *Journal of Educational Psychology*, 104, 206–223.

- Geary, D. C., Hoard, M. K., & Bailey, D. H. (2012). Fact retrieval deficits in low achieving children and children with mathematical learning disability. *Journal of Learning Disabilities, 45*, xx-xx.
- Stoet, G., & Geary, D. C. (2012). Can stereotype threat explain the sex gap in mathematics performance and achievement? *Review of General Psychology, 16*, 93-102.
- Geary, D. C. (2012). The evolved mind and scientific discovery. In J. Shrager & S. M. Carver (Eds.), *From child to scientist: Mechanisms of learning and development* (pp. xxx-xxx). Washington, DC: American Psychological Association.
- Jašarević, E., Geary, D. C., & Rosenfeld, C. S. (in press). Sexually selected traits: A fundamental framework for studies on behavioral epigenetics. *Institute for Laboratory Animal Research Journal*.
- Jašarević, E., Bailey, D. H., Crossland, J. P., Dawson, W., Szalai, G., Ellersieck, M. R., Rosenfeld, C. S., & Geary, D. C. (2012). Evolution of monogamy, paternal investment, and female life history in *Peromyscus*. *Journal of Comparative Psychology, 125*.
- Geary, D. C. (2012). Sex differences. In V. S. Ramachandran (Editor-in-Chief), *Encyclopedia of human behavior* (2nd Edition) (Vol. 3, pp. 403-410). San Diego, CA: Elsevier.
- Bailey, D. H., Lippa, R. A., Del Giudice, M., Hames, R., Geary, D. C. (2012). Sex differences in spatial abilities: Methodological problems in Hoffman et al. (2011). *Proceedings of the National Academy of Sciences USA, 109*, E583.
- Johnson, G., Valle-Inclán, F., Geary, D. C., & Hackley, S. A. (2012). The nursing hypothesis: An evolutionary account of emotional modulation of the post-auricular reflex. *Psychophysiology, 49*, 178–185.
- Geary, D. C. (2012). Evolutionary educational psychology. In K. R. Harris, S. Graham, & T. Urdan, (Editors-in-chief), *Educational psychology handbook: Vol. 1. Theories, constructs, and critical issues* (pp. 595-620). Washington, DC: American Psychological Association.
- Geary, D. C. (2012). Application of evolutionary psychology to academic learning. In C. Roberts (Ed.), *Applied evolutionary psychology* (pp. 78-92). Cambridge, UK: Oxford University Press.
- Geary, D. C. (in press). Learning disabilities in mathematics: Recent advances. In H. L. Swanson, K. Harris, & S. Graham (Eds.), *Handbook of learning disabilities* (second edition). New York: Guilford Press.
- Geary, D. C. (in press). Sexual selection. In P. Whelehan & A. Bolin (Eds.), *Encyclopedia of human sexuality*. West Sussex, UK: John Wiley & Sons.
- Geary, D. C. (in press). Evolutionary theory and education. In C. McBride-Chang & P. Schmidt (Eds.), *International Encyclopedia of the Social & Behavioral Sciences* (2nd ed.). Amsterdam: Elsevier.

- Geary, D.C., Hoard, M. K., & Nugent, L. (in press). Independent contributions of the central executive, intelligence, and in-class attentive behavior to developmental change in the strategies used to solve addition problems. *Journal of Experimental Child Psychology*.
- Bailey, D. H., Winegard, B., Oxford, J. & Geary, D. C. (2012). Sex differences in in-group cooperation vary dynamically with competitive conditions and outcomes. *Evolutionary Psychology, 10*, 102-119.
- Geary, D. C., Bailey, D. H., & Winegard, B. (2012). Strategic cooperation and the rise of the modern world. [Review of Steven Pinker, *The better angels of our nature: Why violence has declined*. Viking, NY, 2011]. *PsycCRITIQUES, 57* (Release 11, Article 2, 1554-0138).
- Byrd-Craven, J., & Geary, D. C. (in press). An evolutionary understanding of sex differences and gender roles. In M.K. Ryan, & N.R. Branscombe (Eds.). *The Sage Handbook of Gender and Psychology*. Thousand Oaks, CA: Sage Publications.
- Geary, D. C. (in press). The nature and causes of mathematical disabilities in children. In R. C. Kadosh & A. Dowker (Eds.), *Oxford Handbook of Mathematical Cognition*. Oxford, UK: Oxford University Press.
- Bailey, D. H., Winegard, B., Li, N., & Geary, D. C. Birds of a feather? Sex similarities and differences in preferences for similarly attractive friends. (submitted).
- Cho, S., Metcalfe, A. W. S., Young, C. B., Ryali, S. Geary, D. C., & Menon, V. Hippocampal-prefrontal engagement and dynamic causal interactions in the maturation of children's fact retrieval (Revision submitted, *Journal of Cognitive Neuroscience*).
- Bailey, D. H., Littlefield, A., & Geary, D. C. The co-development of skill at and preference for use of retrieval-based processes for solving addition problems: Individual and sex differences from first to sixth grade. (Revision invited, *Journal of Experimental Child Psychology*).
- Jašarević, E., Williams, S. A., Roberts, R. M., Geary, D. C., & Rosenfeld, C. S. Sexual selection and evolution of spatial navigation strategy in *Peromyscus*. (submitted) (co-senior author).
- Winegard, B., Winegard, B., & Geary, D. C. If you've got it, flaunt it: Humans flaunt attractive partners for status and desirability. (submitted).
- Oxford, J., & Geary, D. C. Men's testosterone and cortisol concentrations vary with personality and social context in anticipation of and following violent game play. (in prep).
- Fuchs, L. S., Geary, D. C., Compton, D. L., Fuchs, D., Schatschneider, C., Hamlett, C. L., DeSelms, J., Seethaler, P. M., Wilson, J., Craddock, C. F., Bryant, J. D., Luther, K., & Chngas, P. Understanding and promoting at-risk learners' mathematics development in first grade: A randomized control trial. (Revision submitted, *Journal of Educational Psychology*).
- Deaner, R. O., Geary, D. C., Sam, S. A., & Kruger, J. An evolved sex difference in the predisposition

for engagement in physical competition: Males play sports much more than females in contemporary U.S. (in prep).

Jašarević, E., Williams, S. A., Vandas, G., Ellersieck, M. R., Liao, C., Kannan, K., Roberts, R. M., Geary, D. C., & Rosenfeld, C. S. Maternal exposure to bisphenol A on offspring anxiety and spatial learning: Sex- and dose-dependent in deer mouse offspring (*Peromyscus maniculatus bairdii*) (in prep.).

Ponzi D., Muehlenbein, P. M., Sgoifo, A., Geary, D.C., Flinn, M. V. Day-to-day variation of salivary cortisol and dehydroepiandrosterone in children from a rural Dominican community. (submitted).

Geary, D.C., Hoard, M. K., Nugent, L., & Bailey, H. D. Early predictors of emerging, economically-relevant mathematical competencies: A seven year longitudinal study. (submitted).

2011

Geary, D. C. (2011, September). The primal brain in the modern classroom. *Scientific American Mind*, 22, 44-49.

Geary, D. C. (2011). Cognitive predictors of individual differences in achievement growth in mathematics: A five year longitudinal study. *Developmental Psychology*, 47, 1539-1552.

Jašarević, E., Sieli, P. T., Twellman, E. E., Welsh, T. H. Jr, Schachtman, T. R., Roberts, R. M., Geary, D. C., & Rosenfeld, C. S. (2011). Disruption of adult expression of sexually selected traits by early exposure to Bisphenol A. *Proceedings of the National Academy of Sciences USA*, 108, 11715-11720. (Co-senior author)

Geary, D. C. (2011). Consequences, characteristics, and causes of poor mathematics achievement and mathematical learning disabilities. *Journal of Developmental and Behavioral Pediatrics*, 32, 250-263.

Cho, S., Ryali, S., Geary, D. C., & Menon, V. (2011). How do you solve 7+8?: Decoding children's brain activity patterns during counting versus retrieval. *Developmental Science*, 14, 989-1001.

Bailey, D. H., Durante, K., & Geary, D. C. (2011). Men's perception of women's attractiveness is calibrated to relative mate value and dominance of the women's partner. *Evolution and Human Behavior*, 32, 138-146.

Geary, D. C., Berch, D. B., Boykin, A. W., Embretson, S., Reyna, V., & Siegler, R. S. (2011). Learning mathematics: Findings from the national (United States) mathematics advisory panel. In N. Canto (Ed.), *Issues and proposals in mathematics education* (pp. 175-221). Lisbon, Portugal: Gulbenkian.

Geary, D. C. (2011). Developing a top 25 program in the behavioral and social sciences. In M. L. Rice

(Ed.), *Merrill Series on The Research Mission of Public Universities* (Vol. 115) (pp. 38-42). Lawrence, KS: University of Kansas, Merrill Advanced Studies Center.

- Geary, D. C., Hoard, M. K., & Bailey, D. H. (2011). How SLD manifests in mathematics. In Flanagan, D. P., & Alfonso, V. C. (Eds.), *Essentials of Specific Learning Disability Identification* (pp. 43-64). Hoboken, NJ: Wiley.
- Geary, D. C. (2011). Folk abilities and academic learning. In N. M. Seel (Ed.), *Encyclopedia of the sciences of learning*. New York: Springer.
- Geary, D. C. Bailey, D. H., & Oxford, J. (2011). Reflections on the human family. In C. Salmon & T. Shackelford (Eds.), *The Oxford Handbook of Evolutionary Family Psychology* (pp. 365-385). New York: Oxford University Press.
- Geary, D. C. (2011). Reflections on evolutionary psychology. In Wang, X. T. & Su, Y.-J. (Eds.), *Thus spoke evolutionary psychologists* (进化心理学家如是说; pp. 264-271). Beijing, China: Peking University Press.

2010

- Geary, D. C. (2010). Missouri longitudinal study of mathematical development and disability. In Cowan, R., Saxton, M., & Tolmie, A. (Eds.), *Understanding number development and difficulties. BJEP Monograph Series II* (No. 7, pp. 31-49). Leicester: The British Psychological Society.
- Eriksson, K., Bailey, D. H., & Geary, D. C. (2010). The grammar of approximating number pairs. *Memory & Cognition*, 38, 333-343.
- Vigil, J. M., Geary, D. C., Flinn, M. V., & Granger, D. A. (2010). Sex differences in salivary cortisol, alpha-amylase, and psychological functioning following hurricane Katrina. *Child Development*, 81, 1228-1240.
- Fuchs, L. S., Geary, D. C., Compton, D. L., Fuchs, D., Hamlett, C. L., & Bryant, J. D. (2010). The contributions of numerosity and domain-general abilities for school readiness. *Child Development*, 81, 1520-1533.
- Oxford, J., Ponzi, D., & Geary, D. C. (2010). Hormonal responses differ when playing violent video games against an ingroup and outgroup. *Evolution and Human Behavior*, 31, 201-209. Digested in: *Science*, 325, 1605.
- Geary, D. C. (2010). Mathematical disabilities: Reflections on cognitive, neuropsychological, and genetic components. *Learning and Individual Differences*, 20, 130-133.
- Geary, D. C. (2010). Evolution and education. *Psicothema*, 22, 35-40.
- Winegard, B., Bailey, D. H., Oxford, J., Geary, D. C. (2010). Trade-offs and individual differences in evolved traits. *American Psychologist*, 65, 928-929.

- Fuchs, L., Geary, D. C., Compton, D. L., Fuchs, D., Hamlett, C. L., Seethaler, P. M., Bryant, J. D., & Schatschneider, C. (2010). Do different types of school mathematics development depend on different constellations of numerical versus general cognitive abilities? *Developmental Psychology*, *46*, 1731-1746.
- Geary, D. C. (2010). Mathematical learning disabilities. In J. Holmes (Ed.), *Advances in Child Development and Behavior* (Vol. 38, pp. 45-77). San Diego, CA: Academic Press.
- Meyer, M. L., Salimpoor, V. N., Wu, S. S., Geary, D. C., & Menon V. (2010) Differential contribution of specific working memory components to mathematical skills in 2nd and 3rd graders. *Learning and Individual Differences*, *20*, 101-109.
- Bailey, D. H., Winegard, B., & Geary, D. C. (2010). Not Father's Fatherhood Book [A Review of Peter D. Gray and Kermyt G. Anderson, *Fatherhood: Evolution and Human Paternal Behavior*. Harvard University Press: Cambridge, 2010]. *Evolutionary Psychology*, *8*, 236-239.
- Hale, J., Alfonso, V., Berninger, V., Bracken, B., Christo, C., Clark, E., Cohen, M., Davis, A., Decker, S., Denckla, M., Dumont, R., Elliott, C. Feifer, S., Fiorello, C., Flanagan, D., Fletcher-Janzen, E., Geary, D. et al. (2010). Critical Issues in response-to-intervention, comprehensive evaluation, and specific learning disabilities identification and intervention: An expert white paper consensus. *Learning Disability Quarterly*, *33*, 1-14.

2009

- Geary, D. C., Bailey, D. H., Littlefield, A., Wood, P., Hoard, M. K., & Nugent, L. (2009). First-grade predictors of mathematical learning disability: A latent class trajectory analysis. *Cognitive Development*, *34*, 411-429.
- Geary, D. C., Bailey, D. H., & Hoard, M. K. (2009). Predicting mathematical achievement and mathematical learning disability with a simple screening tool: The Number Sets Test. *Journal of Psychoeducational Assessment*, *27*, 265-279.
- Geary, D. C. (2009). An evolutionary twist on sex, mathematics, and the sciences. In C. Hoff Sommers (Ed.), *The science of women in science* (pp. 170-189). Washington, DC: American Enterprise Institute Press.
- Bailey, D. H, & Geary, D. C. (2009). Hominid brain evolution: Testing climatic, ecological, and social competition models. *Human Nature*, *20*, 67-79.
- Geary, D. C. (2009). Sex differences in reciprocal altruism: Reply to Mower. *Journal for the Theory of Social Behaviour*, *39*, 121-124.
- Geary, D. C. (2009). Evolution of general fluid intelligence. In S. M. Platek & T. K. Shackelford (Eds.), *Foundations in evolutionary cognitive neuroscience* (pp. 22-56). Cambridge, MA: MIT Press.

- Geary, D. C. (2009). The *Why* of learning. *Educational Psychologist*, *44*, 198-201.
- Bailey, D. H, Oxford, J. K., & Geary, D. C. (2009). Ultimate and proximate influences on human sex differences. *Behavioral and Brain Sciences*, *32*, 266-267.
- Vigil, J. M., & Geary, D. C. (2009). An exploratory analysis of family coping styles and psychobiological distress among adolescents affected by a large-scale disaster. *Journal of Child and Adolescent Trauma*, *2*, 81-89.
- Vigil, J. M., Carle, A. C., Geary, D. C., Granger, D. A., Flinn, M. V., & Pendleton, P. (2009). Maternal correlates of children's stress functioning following a major natural disaster. *Journal of Child and Adolescent Trauma*, *2*, 287-296.

2008

- Geary, D. C., Hoard, M. K., Nugent, L., & Byrd-Craven, J. (2008). Development of number line representations in children with mathematical learning disability. *Developmental Neuropsychology*, *33*, 277-299.
- Byrd-Craven, J., Geary, D. C., Rose, A. J., & Ponzi, D. (2008). Co-rumination increases stress hormone levels in women. *Hormones and Behavior*, *53*, 489-492.
- Geary, D. C. (2008). An evolutionarily informed education science. *Educational Psychologist*, *43*, 279-295.
- Geary, D. C. (2008). Whither evolutionarily educational psychology? *Educational Psychologist*, *43*, 217-226.
- Wu, S., Meyer, M. L., Maeda, U., Salimpoor, V., Tomiyama, S., Geary, D. C., & Menon, V. (2008). Standardized assessment of strategy use and working memory in early mental arithmetic performance. *Developmental Neuropsychology*, *33*, 365-393.
- Hoard, M. K., Geary, D. C., Byrd-Craven, J., & Nugent, L. (2008). Mathematical cognition in intellectually precocious children. *Developmental Neuropsychology*, *33*, 251-276.
- Reprinted in (2009). *Mensa Research Journal*, *40*, 39-52.
- Vigil, J. M., & Geary, D. C. (2008). A preliminary investigation of family coping styles and psychological well-being among adolescent survivors of hurricane Katrina. *Journal of Family Psychology*, *22*, 176-180.
- Vigil, J. M., & Geary, D. C. (2008). Developmental consequences of childhood sexual abuse. In M. J. Smith (Ed.), *Childhood sexual abuse: Issues and challenges* (pp. 43-66). Hauppauge, NY: Nova Science Publishers, Inc.

Geary, D. C. (2008). Children's academic development: Where evolution meets culture. *Anuario de Psicología*, 39, 209-223.

Geary, D. C. (2008). Cognitive development: Biological theories. In E. M. Anderman (Ed.), *Psychology of Classroom Learning: An Encyclopedia*, Detroit: Macmillan Reference.

2007

Geary, D. C., Hoard, M. K., Byrd-Craven, J., Nugent, L., & Numtee, C. (2007). Cognitive mechanisms underlying achievement deficits in children with mathematical learning disability. *Child Development*, 78, 1343-1359.

Geary, D. C. (2007). An evolutionary perspective on sex differences in mathematics and the sciences. In S. J. Ceci & W. M. Williams (Eds.), *Why aren't more women in science? Top researchers debate the evidence* (pp. 173-188). Washington, DC: American Psychological Association.

Geary, D. C. (2007). An evolutionary perspective on learning disability in mathematics. *Developmental Neuropsychology*, 32, 471-519.

Geary, D. C. (2007). The motivation to control and the evolution of general intelligence. In S. Gangestad & J. Simpson (Eds.), *The evolution of mind: Fundamental questions and controversies* (pp. 305-312). New York: Guilford Publications.

Halpern, D., Benbow, C., Geary, D. C., Gur, R., Hyde, J., & Gernsbacher, M. A. (2007, December). Sex, math and scientific achievement: Why do men dominate the fields of science, engineering and mathematics? *Scientific American Mind*, 18, 44-51.

DeSoto, M. C., Bumgardner, J., Close, A., & Geary, D. C. (2007). Investigating the role of hormones in theory of mind. *North American Journal of Psychology*, 9, 535-544.

Geary, D. C., Nugent, L., Hoard, M. K., & Byrd-Craven, J. (2007). Strategy use, long-term memory, and working memory capacity. In D. B. Berch & M. M. M. Mazzocco (Eds.), *Why is Math So Hard for Some Children? The Nature and Origins of Mathematical Learning Difficulties and Disabilities* (pp. 83-105). Baltimore, MD: Paul H. Brookes Publishing Co.

Byrd-Craven, J., & Geary, D. C. (2007). Biological and evolutionary contributions to developmental sex differences. *Reproductive BioMedicine*, 15 (Suppl. 2), 12-22.

Geary, D. C. (2007). Evolution of fatherhood. In C. Salmon & T. Shackelford (Eds.), *Family relationships: An evolutionary perspective* (pp. 115-144). New York: Oxford University Press.

Repinted in V. G. Haase & I. B. M. da Cruz (in press). *Evolução da família humana: como as adaptações evolutivamente selecionadas influenciam a família contemporânea. (Evolution of the human family: How evolutionary selected adaptations influence contemporary family life)*. Santa Maria, Brazil: Editora da Universidade Federal de Santa Maria

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- Hovell, M. F., Geary, D. C., Black, D. R., Kamachi, K., & Kirk, R. (1984). The effects of lay counseling on medication adherence and blood pressure: Adjunctive treatment for hypertension. *Patient Education and Counseling, 6*, 91-94.

Published Abstracts

Hovell, M. F., Black, D. R., & Geary, D. C. (1984). Paraprofessional counseling for hypertension control: A quasi-experimental analysis. *Society of Behavioral Medicine Proceedings, 5*, 28-29.

Geary, D. C. & Gilger, J. W. (1985). Clinical utility of the Luria-Nebraska Neuropsychological Battery - Children's Revision. *International Journal of Clinical Neuropsychology*, 7, 50-51.

Geary, D. C., Little, T. D., Widaman, K. F., & Cormier, P. (1987). Cognitive addition: Comparison of learning disabled and academically normal children. *Abstracts: Society for Research in Child Development*.

Geary, D. C., Hamson, C., Chen, G.-P., Liu, F., Hoard, M. K., & Salthouse, T. A. (1996). A cross-generational perspective on the mathematical competencies of Chinese and Americans. *Abstracts of the Psychonomic Society*, 1, 51.

Geary, D. C., Sauls, S. C., Liu, F., & Hoard, M. K. (1999). Sex differences in spatial cognition and arithmetical reasoning. *Abstracts of the Psychonomic Society*, 4, 5.

Byrd-Craven, J., Hoard, M. K., & Geary, D. C. (2002). Counting span, counting knowledge, and procedural competencies in children with mathematical disabilities. *Abstracts of the Psychonomic Society*, 7, 50.

Unpublished Manuscripts, Microfiche Documents, and Technical Reports

Geary, D. C. (1981). *Effects of a nonpharmacological adjunctive treatment for essential hypertension*. MS thesis. California State University, Hayward, CA.

Geary, D. C. (1984, September). Sex hormones and patterns of hemispheric specialization at puberty. Dissertation Proposal, University of California, Riverside, (70 ms. pages).

Cormier, P., Widaman, K. F., & Geary, D. C. (1984). General model for simple and complex addition. *Resources in Education* (ERIC Document #ED 252 434).

Geary, D. C., Little, T. D., Widaman, K. F., & Cormier, P. (1985). Chronometric analysis of complex addition: Verification of a general model. *Resources in Education* (ERIC Document #ED 258 791).

Geary, D. C. (1986). Internal and external validation of cognitive arithmetic component processes. Doctoral dissertation. University of California, Riverside, CA. *Dissertation Abstracts International*, 47b, 3142B.

Geary, D. C. (1989). *Numerical facility: Convergence of cognitive and factor analytic models. Final report* (AFOSR-88-0239). Washington, DC: Bolling AFB.

Geary, D. C., Brown, S. C., & Samaranayake, V. A. (1991). Longitudinal and cross-sectional analyses of an early learning deficit in mathematics. Final report (Weldon Spring Grant). Rolla, MO.

Editorial and Ad Hoc Reviewer

Associate Editor

Developmental Psychology, 2010-

Guest Editor

Developmental Review, 2005-06, (special issue, Evolutionary Developmental Psychology, Vol. 26, pp. 113-276).

Acta Psychologica Sinica, 2006-2007, co-editor with L. Chang (special issue Evolutionary Psychology, Vol. 39, pp. 381-570).

Editorial Board

Developmental Psychology, 1996

Journal of Educational Psychology, 1996-2002, 2007-2009

Child Development, 1997-2002

Contemporary Educational Psychology, 2000-2006

Journal of Learning Disabilities, 2001-

Evolutionary Psychology, 2001-

Human Nature, 2005-

Journal of Experimental Child Psychology, 2007-

Annals of Dyslexia, 2007-2009

Journal of Social, Evolutionary, and Cultural Psychology, 2008-

Frontiers in Evolutionary Psychology, 2010-

Ad Hoc Reviewer; 80+ journals

Science; Cognition; Child Development; Acta Psychologica; Memory & Cognition; Brain and Cognition; Psychology and Aging; American Psychologist; Cognitive Development; Mathematical Cognition; Psychological Bulletin; Merrill-Palmer Quarterly; Developmental Psychology; Perceptual and Motor Skills; Evolution and Human Behavior; Developmental Neuropsychology; Behavioral and Brain Sciences; Journal of Abnormal Psychology; Journal of Educational Psychology; International Journal of Psychology; Trends in Cognitive Sciences; American Educational Research Journal; European Journal of Cognitive Psychology; Journal of Experimental Child Psychology; Journal of Experimental Psychology: Applied; Journal of Experimental Psychology: General; Journal of Personality and Social Psychology; International Journal of

Behavioral Development; Journal of Gerontology: Psychological Sciences; Journal of Experimental Psychology: Learning, Memory, and Cognition; Canadian Journal of Experimental Psychology; Cognition and Emotion; Psychological Research; Current Directions in Psychological Science; Human Biology; Psychonomic Bulletin & Review; Psycology; Contemporary Educational Psychology; British Journal of Psychology; Journal of the International Neuropsychological Society; Journal of Learning Disabilities; Journal of Personality; Neuropsychology; Journal of Cognition and Development; Psychological Review; European Journal of Cognitive Psychology; Applied Developmental Science; European Journal of Psychology of Education; Social Biology; Mathematical Thinking and Learning; Cortex; Journal of Research in Personality; British Journal of Psychology; Cerebral Cortex; Parenting: Science and Practice; Learning Disabilities Research and Practice; Human Nature; Current Psychology Letters: Behavior; Quarterly Journal of Experimental Psychology; Biology Letters; Hormones and Behavior; Behavior Genetics; Social Sciences Quarterly; Journal of Comparative Psychology; Journal of Family Psychology; Child Neuropsychology; Cognitive Psychology; Dyslexia; Visual Cognition; Cognitive Science; Annals of the New York Academy of Sciences; Gender Studies; Current Anthropology; Proceedings of the Royal Society of London Biological Sciences; Perspectives in Child Development; Exceptional Children; Scandinavian Journal of Psychology; American Journal of Physical Anthropology; Developmental Science; Proceedings of the National Academy of Sciences USA.

Grant and Other Reviews (Partial List)

Site visit team member, National Institute of General Medical Sciences, National Institutes of Health (2/87)

Study Section Member: Behavioral and Neuroscience Special Emphasis Panel, Human Development and Aging, National Institutes of Health (7/92); Learning Disabilities Research Center Grants, National Institutes of Health (ZHD1 DSR-H 27 D; 10/05).

Ad hoc reviewer, American Institute for Biological Sciences for U.S. Army Medical Research and Development Command (Cognitive and behavioral development of children with neurofibromatosis-1) (5/93); Various study sections of the National Institutes of Health.

Ad Hoc Reviewer, The Israel Science Foundation; Natural Sciences and Engineering Research Council of Canada, National Science Foundation (U.S.); The Wellcome Trust (United Kingdom); Gent University, Belgium; Economic and Social Research Council (United Kingdom); Medical Research Council (United Kingdom); Social Sciences and Humanities Research Council of Canada; Research Council, Catholic University of Louvain (Belgium); Academy of Finland; Netherlands Organisation for Scientific Research; Leverhulme Trust (UK); US Department of Education, Division of Educational Sciences.

External Review Panel, International Human Frontier Science Program (1997-).

Review Committee (2004), Eleanor Maccoby Book Award, American Psychological Association

Association Affiliations

Member: Psychonomic Society, Human Behavior and Evolution Society, American Association for the Advancement of Science
Fellow, Association for Psychological Sciences
Member: American Psychological Association, 1990-1999
Associate Member: National Academy of Neuropsychologists, 1984-1987

Courses Taught

Cognitive Development (undergraduate); General Psychology (undergraduate); Life-span Developmental Psychology (undergraduate); Learning (undergraduate); Cognition (undergraduate, graduate); Child Psychology (undergraduate); Graduate Seminar in Learning and Cognition; Psychology of Development (graduate); Psychobiology of Social Development (graduate); Sexual Selection (graduate seminar); Evolution of Human Sex Differences (Honors); Readings in Evolution and Behavior (graduate seminar); Sex Differences (undergraduate).

Independent Study Courses

Geary, D. C. (1990). *Child Psychology*. Columbia, MO: University of Missouri Extension.

Geary, D. C. (1991). *Cognitive Psychology*. Columbia, MO: University of Missouri Extension.

Community Service (partial list)

Radio

National Public Radio (Adolescent Development); "Best of our knowledge," *National Public Radio* (children's mathematical development; assessment of mathematical achievement; mathematics reform; evolution and education) *Voice of America* (development of mathematical skills in Chinese and American children); *Canadian Broadcasting Company* (mathematical development); Radio Stations across Missouri (mathematical skills of Chinese and American children; mathematical skills of elderly adults; international differences in mathematical competencies); *British Broadcasting Company* (sex differences in math and science); *Chorus Broadcasting Network* (Roy Green Show, brain evolution); *KCSN* (Northridge, CA; book interview for show Full Circle); *WERS* (Boston, MA; people's understanding of magnitude of economic stimulus).

Television

'Missouri Forum,' *KOMU* (NBC; Effect of Day Care on Child Development); Scientific Advisor, Palfreman Film Group, *Public Broadcasting System* (Advisor for Documentary on Math Education in Inner Cities); *Arts & Entertainment* (interview, sex differences); *M5* (national television, France; interview, hormones and sex differences in mate preferences); *Canadian Broadcasting Company* (interview, science series on sex differences); *ABC World News Tonight* (interview, sex differences), *KSDK* (NBC, St. Louis; brain and cognitive sex differences), *Fox News* (KC, brain evolution), *CBS News* (brain evolution).

Print

Interviews for or research described in various outlets, including (among others) *Discover*, *New Scientist*, *Science*, *News Week*, *Psychology Today*, *Washington Post*, *Science News*, *Chicago Tribune*, *Psychiatric Times*, *USA Today*, *Ming Pao Daily News* (Hong Kong), *Wall Street Journal*, *Education Week*, *St. Louis Post Dispatch*, *Management Accounting*, *Kansas City Star*, *Cankao Xiaoxi* (China), *Education Digest*, *El Paso Times*, *The Detroit News*, *Building Design*, *Family Life*, *Psychological Monitor*, *London Times*, *Viewpoint* (UK), *Chicago Sun Times*, *Forbes*, *Chronicle of Higher Education*, *WebMD*, *Congressional Quarterly Researcher*, *Dossier BioSciences* (France), *Psychologies* (UK), *Women's Health*, *Men's Health*, *Thalamus*, *Best Life Magazine*, *Science and Spirit*; *Chronic'art* (France); *Times of India* (India); *Glasgow Evening Times* (UK), *The Sun* (UK); *The Globe and Mail* (Canada); *New York Times*.

Newspaper & Web articles/commentary:

La Vanguardia, ¿Difieren realmente hombres y mujeres? (Spain; June 20, 2004 in print, June 21, on line; invited, sex differences in abilities); *American Psychological Association Observer*, Is there life after the ivory tower? Donald Kausler's second career as the country's guru on aging; *Edge: The Third Culture* (comment on Assortative mating theory by Baron-Cohen; http://www.edge.org/3rd_culture/baron-cohen05/baron-cohen05_index.html); On-line Web discussant, Colloquy, *Chronicle of Higher Education* (3/05 – available with Google search); Educating the evolved mind, *Florida Humanist Journal* (Spring 2009).

Other

One of the principle authors of the *Mathematics Framework for California Public School Grades K through 12* (1999); Advisor, *National Center for Educational Statistics* (2002), on the development of assessment measures of early quantitative abilities in preschool children as part of a national longitudinal study of mathematical abilities. Book review for *National Geographic* children's series.

Invited Talks

University of Texas at El Paso (Physics), Air Force Human Resources Laboratory, University of Colorado (Institute for Behavioral Genetics), Washington University in St. Louis (2, Computer Science, Mathematics), University of Southern Illinois (Behavioral Sciences, Medical School), Italian Association for Research and Treatment of Learning Disorders (keynote), International Association for Cognitive Education (keynote), University of Michigan, University of Kansas, Catholic University of Louvain (2, Psychology, Education), SUNY, Oswego (University Lecture), Harvard (2, Kennedy School of Government, Mind/Brain/Behavior), University of Northern Illinois, MIT (Brain and Cognitive Sciences), Carnegie Mellon, University of Lethbridge, Florida Atlantic University, Max Planck Institute Berlin (2, Human Development, Adaptive Cognition), University of Vienna (Institute of Molecular Pathology), Purdue, Brookings Institute, Humboldt University in Berlin, University of Delaware (2, Linguistics and Philosophy, Cognitive Science), American Enterprise Institute (2), London School of Economics (Darwin Center), University of London (Education), Portuguese

Mathematical Society (keynote), International Society for Human Ethology (plenary), Chinese University of Hong Kong (Education), Wallace International Research Symposium on Talent Development (keynote), European Molecular Biology Laboratory, International Society for Research on Intelligence (keynote) , invited symposium speaker, meetings of American Psychological Association, Association for Psychological Sciences, American Educational Research Association, International Dyslexia Association, Society for Research in Child Development.

Presentations

- Frankel, B. S., Geary, D. C., and Hovell, M. F. (1981, May). Survey methodology in the clinic setting: Issues of reactivity and reliability. Annual Meeting of the Association of Behavior Analysis, Milwaukee, WI.
- Geary, D. C., Jennings, S. M., & Schultz, D. D. (1982, April). Luria-Nebraska Neuropsychological Battery- Children's Revision Comparison of normal and learning disabled children. Presented at the annual meeting of the Western Psychological Association, Sacramento, CA.
- Geary, D. C. (1982, May). The Luria-Nebraska Children's Battery: Issues for school psychologists. Invited presentation, Department of Educational Psychology, California State University, Hayward, CA.
- Geary, D. C., Hovell, M. F., Black, D. R., Walton, C., Kamachi, K., & Kirk, R. (1982, November). Experimental analysis of adherence counseling: Behavioral measurement of hypertension. Presented at the annual meeting of the Northern California Behavior Analysis Association, Asilomar, CA.
- Geary, D. C., Hovell, M. F., Black, D. R., Walton, C., Kamachi, K., & Kirk, R. (1982, November). Medical alerts for hypertension management: Effects of Behavioral and biological feedback on physicians and patients. Presented at the Annual meeting of the Northern California Behavior Analysis Association, Asilomar, CA.
- Geary, D. C. (1984, January). The Luria-Nebraska Children's Revision: Early research and limitations. Invited Presentation, Department of Mental Health, Riverside County, Palm Springs, CA.
- Gilger, J. W., Geary, D. C. & Jennings, S. M. (1984, April). Performance on the Luria-Nebraska Children's Battery associated with VIQ-PIQ differences. Presented at the Annual Meeting of the Western Psychological Association, Los Angeles, CA.
- Geary, D. C., & Gilger, J. W. (1984, April). Performance on the Luria-Nebraska for normal and LD children matched on FSIQ. Presented at the Annual meeting of the Western Psychological Association, Los Angeles, CA.
- Gerstle, R. M., Geary, D. C., & Reller-Geary, L. L. (1984, April). Intellectual and social changes in a 48,XXYY male. Presented at the Annual Meeting of the Western Psychological Association, Los Angeles, CA.
- Widaman, K. F., Cormier, P. A., & Geary, D. C. (1984, April). A chronometric analysis of simple and complex addition. Presented at the Annual meeting of the Western Psychological Association, Los Angeles, CA.
- Hovell, M. F., Black, D. R., & Geary, D. C. (1984, May). Paraprofessional counseling for hypertension control: A quasi-experimental analysis. Presented at the Annual Meeting of the Society of Behavioral Medicine, Philadelphia, PA.
- Cormier, P. A., Widaman, K. & Geary, D. C. (1984, August). A general model for mental addition. Presented at the Annual Meeting of the American Psychological Association, Toronto, Canada.
- Geary, D. C., & Gilger, J. W. (1984, October). Clinical utility of the Luria-Nebraska Neuropsychological Battery-Children's Revision. Presented at the Annual Meeting of the National Academy of Neuropsychologists, San Diego, CA.

- Little, T. D., Widaman, K. F., Cormier, P., & Geary, D. C. (1985, April). Influence of instructional variation on the pattern of addition algorithms. Presented at the annual meeting of the Western Psychological Association, San Jose, CA.
- Little, T. D., Widaman, K. F., Geary, D. C., & Cormier, P. (1985, April). Development of addition algorithms: Difference between normal and learning deficient children. Presented at the annual meeting of the Western Psychological Association, San Jose, CA.
- Geary, D. C., Widaman, K. F., Little, T. D., & Cormier, P. (1985, April). Chronometric analysis of complex addition: Verification of a general model. Presented at the annual meeting of the Western Psychological Association, San Jose, CA.
- Geary, D. C., Little, T. D., Widaman, K. F., & Cormier, P. (1985, August). Analysis of complex addition: Model estimation and stability of estimates. Presented at the annual meeting of the American Psychological Association, Los Angeles, CA.
- Cormier, P., Widaman, K. F., Geary, D. C., & Little, T. D. (1985, August). Individual differences in mental addition: Testing the network-retrieval model. Presented at the annual meeting of the American Psychological Association, Los Angeles, CA.
- Little, T. D., Widaman, K. F., Geary, D. C., & Cormier, P. (1985, August). Individual differences in the development of addition algorithms. Presented at the annual meeting of the American Psychological Association, Los Angeles, CA.
- Widaman, K. F., Geary, D. C., Cormier, P., & Little, T. D. (1985, August). Cognitive processing strategies for complex addition. Presented at the annual meeting of the Cognitive Science Society, Irvine, CA.
- Cormier, P., Tomlinson-Keasey, C., & Geary, D. C. (1985, November). Specialization hemispheric differente chez les hommes et les femmes lors de l'apprentissage du code morse: Analyse des responses. Presented at the 8th annual conference of the Societe Quebecoise pour la Recherche en Psychologie, Montreal, Canada.
- Whalen, R. E., Geary, D. C., & Johnson, F. (1986, May) Models of Sexuality. Presented at the Second Kinsey Symposium: Homosexuality/Heterosexuality: The Kinsey Scale and Current Research. The Kinsey Institute, Bloomington, IN.
- Geary, D. C. (1986, October). The information processing approach to human intelligence: A case study of arithmetic. Invited presentation, Department of Physics, University of Texas, El Paso, Texas.
- Geary, D. C., Little, T. D., Widaman, K. F., & Cormier, P. (1987, April). Cognitive addition: Comparison of learning disabled and academically normal children. Presented at the biannual meeting of the Society for Research in Child Development, Baltimore, MD.
- Gerstle, R. M., Himelstein, P., Geary, D. C., & Reller-Geary, L. (1987, April). Changes in comprehensive Rorschach system variables following inpatient treatment of disturbed children. Presented at the annual meeting of the Southwestern Psychological Association, New Orleans, LA.
- Geary, D. C. (1988, November). Sex-dimorphic behavior patterns, maturational timing, and gender differences in spatial ability. Presented at the annual meeting of the Psychonomic Society, Chicago, IL.
- Geary, D. C. (1988, December). Individual differences in cognitive arithmetic. Invited presentation, Human Abilities Measurement Program, Air Force Human Resources Laboratory, Brooks AFB, Texas.
- Cormier, P., Lunn, M., Geary, D.C., Goggin, J.P., & Estrada, P. (1990, August). Mental arithmetic in bilinguals: New evidence from chronometric analysis. Presented at the annual meeting of the American Psychological Association, Boston, MA.
- Geary, D. C., & Frensch, P. A. (1991, June). A production-system model for simple and complex addition. Presented at the annual meeting of the American Psychological Society, Washington, DC.

- Geary, D. C. (1992, January). Numerical cognition: Skill development in mathematically disabled children. Invited presentation, Institute for Behavioral Genetics, University of Colorado, Boulder, CO.
- Geary, D. C. (1992, January). Potential loci of multinational achievement differences in mathematics. Invited presentation, Department of Computer Science, Washington University, St. Louis, MO.
- Geary, D. C., & Frensch, P. A. (1992, April). A production-system model for simple and complex addition. Presented at the annual meeting of the Tagung Experimental Arbeitender Psychologen (TEAP), Dsnobruck, Germany.
- Geary, D. C., Bow-Thomas, C. C., Fan, L., Mueller, J., Turk, A., & Siegler, R. S. (1992, November). Acquisition of arithmetic skills in Chinese and American children. Presented at the annual meeting of the Psychonomic Society, St. Louis, MO.
- Aube, R., Cormier, P., & Geary, D. C. (1992, November). La specialisation hemispherique dans une tache 'addition simple. Presented at the 15th annual meeting of the Societe Quebecoise pour la Recherché en Psychology, Montreal, Canada.
- Geary, D. C., Fan, L., Bow-Thomas, C. C., & Siegler, R. S. (1993, November). Memory span and strategy choices in Chinese and American children. Presented at the annual meeting of the Psychonomic Society, Washington, DC.
- Geary, D. C. (1993, December). Counting and arithmetic in Chinese and American children: The early influence of language. Invited presentation, Annual meeting of the Missouri Council of Teachers of Mathematics, Columbia, MO.
- Geary, D. C. (1994, April). Subtypes of mathematical disabilities. Invited symposium participant, "From Beijing to Yonkers: Differences in early mathematical thinking." Annual meeting of the American Educational Research Association, New Orleans, LA.
- Geary, D. C. (1994, November). Are East Asian versus American differences in arithmetical abilities a recent phenomenon? Invited presentation, Department of Anthropology, University of Missouri, Columbia, MO.
- Geary, D. C., Salthouse, T. A., Chen, G. P., & Fan, L. (1994, November). Numerical cognition: Are U.S.--East Asian ability differences a recent phenomenon? Presented at the annual meeting of the Psychonomic Society, St. Louis, MO.
- Geary, D. C. (1994, December). The East Asian versus American differences in arithmetic skill might not have existed 50 years ago. Invited presentation, Annual meeting of the Missouri Council of Teachers of Mathematics, Columbia, MO.
- Geary, D. C. (1995, January). Subtypes of mathematical disabilities: Conceptual and empirical perspectives. Invited colloquia, Department of Behavioral Sciences, School of Medicine, University of Southern Illinois, Carbondale, IL.
- Geary, D. C. (1995, April). Are differences in the arithmetic abilities of East Asians and Americans a recent phenomenon? Invited symposium participant, Sources of Asian children's superiority in mathematics: Culture or classroom in this cohort? Annual meeting of the American Educational Research Association, San Francisco, CA.
- Geary, D. C. (1995, July). Biology, ontogeny, and learning: Implications for mathematics education and development. Main speaker at plenary symposium, biannual meeting of the International Association for Cognitive Education, Monticello, New York.
- Geary, D. C. (1995, October). Reflections of evolution and cultural in children's cognition. Invited Colloquia, Max Planck Institute for Human Development and Education, Berlin, Germany.
- Geary, D. C. (1995, October). Subtypes of mathematical disabilities. Keynote Address, Italian Association for Research and Treatment of Psychopathology of Learning, Trieste, Italy.

- Geary, D. C. (1996, April). Computational and reasoning abilities in arithmetic: Cross-generational change in China and the United States. Invited Colloquia, Department of Psychology, University of Missouri, Rolla, MO.
- Geary, D. C. (1996, May). A gross-generation perspective on the mathematical development of individuals from China and the United States. Keynote address, Festschrift Conference in Honor of Harold Stevenson, University of Michigan Ann Arbor, MI.
- Geary, D. C. (1996, October). Computational and reasoning abilities in arithmetic: Cross-generational change in China and the United States. Invited Colloquia, Department of Psychology, University of Kansas, Lawrence, KS.
- Geary, D. C., Hamson, C. O., Chen, G.-P., Liu, F., Hoard, M. K., & Salthouse, T. A. (1996, November). A cross-generational perspective on the mathematical competencies of Chinese and Americans. Presented at the annual meeting of the Psychonomic Society, Chicago, IL.
- Geary, D. C. (1997, April). Integrating biological and cultural influences on children's cognitive and academic development. Discussant, symposium on Sources of cognitive growth: Toward a biocultural synthesis." Presented at the biannual meeting of the Society for Research in Child Development, Washington, D.C.
- Lin, J., & Geary, D. C. (1997, May). Age-related differences in the speed of two numerical cognitive processes. Presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- Geary, D. C. (1998, January). Mathematical development and mathematical disabilities. Invited colloquia, Faculty of Psychology and Educational Science, Catholic University of Louvain, New Louvain, Belgium.
- Geary, D. C. (1998, April). Mathematical disabilities/dyscalculia. Invited address, Conference on Mathematical Cognition, National Institutes of Health, Bethesda, MD.
- Geary, D. C. (1999, March). Biology, culture, and sex differences in mate choice. Invited University Lecture, State University of New York, Oswego, NY.
- Geary, D. C. (1999, October). Darwinism, mathematics, and schooling. Invited address, John F. Kennedy School of Government, Harvard University, Cambridge, MA.
- Geary, D. C., Sauls, S. C., Liu, F., & Hoard, M. K. (1999, November). Sex differences in spatial cognition and arithmetical reasoning. Annual meeting of the Psychonomic Society, Los Angeles, CA.
- Geary, D. C. (2000, June). Chair, invited cross-cutting symposium, Psychological Research and Educational Practice and Policy. Annual meeting of the American Psychological Society, Miami, FL.
- Geary, D. C. (2000, June). Learning mathematics. Cross-cutting symposium, Psychological Research and Educational Practice and Policy. Annual meeting of the American Psychological Society, Miami, FL.
- Geary, D. C. (2000, June). Evolution and developmental sex differences. Annual meeting of the American Psychological Society, Miami, FL.
- MacDonald, K. B., & Geary, D. C. (2000, June). The evolution of general intelligence: Domain-general cognitive mechanisms and human adaptation. Presented at the annual meeting of the Human Behavior and Evolution Society, Amherst, MA.
- Geary, D. C. (2000, October). Sexual selection and human sex differences in brain and cognition. Invited colloquia, Lecture Series on Ecology, Evolution & Behavior, Division of Biological Sciences, University of Missouri, Columbia.
- Geary, D. C. (2001, March). Sexual selection and human sex differences in brain and cognition. Invited colloquia, Department of Psychology, University of Northern Illinois.

- Geary, D. C. (2001, April). Evolution, development, and sex differences. Symposium presentation, Evolutionary Developmental Psychology, at the biannual meeting of the Society for Research in Child Development, Minneapolis, MN.
- Geary, D. C. (2001, November). A Darwinian perspective on mathematics and mathematical development. Invited colloquia, Department of Mathematics, Washington University, St. Louis, MO.
- Geary, D. C. (2001, December). A Darwinian perspective on mathematics and mathematical development. Invited colloquia, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA.
- Geary, D. C. (2002, March). A Darwinian perspective on mathematics and mathematical development. Invited colloquia, Department of Psychology, Carnegie Mellon University, Pittsburgh, PA.
- Geary, D. C. (2002, March). Brain and cognitive evolution: Forms of modularity and functions of mind. Invited colloquia, Department of Psychology, Carnegie Mellon University, Pittsburgh, PA.
- Geary, D. C. (2002, May). What is the evolutionary *raison d'être* of lifetimes. Invited colloquia, Department of Psychology and Neuroscience, and Canadian Center for Behavioral Neuroscience, University of Lethbridge, Lethbridge, Alberta, Canada.
- Geary, D. C., Hoard, M. K., & Byrd-Craven, J. (2002, November). Mathematics and learning disabilities. Invited symposium speaker, annual conference of the International Dyslexia Association, Atlanta, GA.
- Byrd-Craven, J., Hoard, M. K., & Geary, D. C. (2002). Counting span, counting knowledge, and procedural competencies in children with mathematical disabilities. Presented at the annual meeting of the Psychonomic Society, Kansas City, MO.
- Geary, D. C. (2004, April). A Darwinian perspective on mathematics and mathematical development. Invited colloquia, Department of Psychology, Florida Atlantic University, Boca Raton, FL.
- Geary, D. C. (2004, November). The origin of mind: Evolution of brain, cognition, and general intelligence. Invited colloquia, Center for Adaptive Cognition, Max Planck Institute, Berlin, Germany.
- Geary, D. C. (2004, November). The origin of mind: Evolution of brain, cognition, and general intelligence. Invited colloquia, Institute for Psychology, Humboldt University, Berlin, Germany.
- Geary, D. C. (2004, November). What is the evolutionary *raison d'être* of lifetimes? Invited colloquia, Institute of Molecular Pathology, University of Vienna, Vienna, Austria.
- Geary, D. C. (2005, March). The origin of mind: Evolution of brain, cognition, and general intelligence. Invited colloquia, Department of Psychological Sciences, Purdue University, West Lafayette, IN.
- Geary, D. C. (2005, September). Does evolution explain women's advantages in social cognition? Invited symposium colloquia, Mind/Brain/Behavior Initiative, Harvard University, Cambridge, MA.
- Geary, D. C. (2005, September). Algebraic reasoning: Developmental, neurocognitive, and disciplinary foundations for instruction. Invited discussant, symposium co-sponsored by NIH, IES, NSF, and Brookings Institute, Washington, DC.
- Geary, D. C. (2006, May). Can evolution contribute to our understanding of sex differences in math and science abilities? Invited symposium colloquia, 4th annual Brain and Learning Conference, co-sponsored by Harvard School of Education, Dana Foundation, and others, Cambridge, MA.
- Geary, D. C. (2006, August). Sex differences in science and mathematics: Is an evolutionary perspective

- informative? Invited talk, plenary symposium, annual meeting of the American Psychological Association. New Orleans, LA.
- Geary, D. C. (2006, September). The origin of mind: Evolution of brain, cognition, and general intelligence. Invited colloquia, Department of Linguistics and Philosophy, University of Delaware, Willington, DE.
- Geary, D. C. (2006, September). Does evolution explain women's advantages in social cognition? Invited colloquia, Cognitive Science Lecture Series, University of Delaware, Willington, DE.
- Geary, D. C., Hoard, M. K., Byrd-Craven, J., & Nugent, L. (2007, March). Cognitive mechanisms underlying achievement deficits in children with mathematical learning disability. Presented at the biannual meeting of the Society for Research in Child Development. Boston, MA.
- Menon, V., Wu, S., Keller, K. E., & Geary, D. C. (2007, March). Neural basis of mathematical skill development. Presented at the biannual meeting of the Society for Research in Child Development. Boston, MA.
- Wu, S., Keller, K. E., Geary, D. C., & Menon, V. (2007, March). Neural basis of rapid retrieval of simple addition facts in 2nd and 3rd grade children. Presented at the biannual meeting of the Society for Research in Child Development, Boston, MA.
- Anguiano, J., Wu, S., Keller, K., Geary, D., & Menon, V. (2007, June). Neural basis of differential mathematical strategy use in children. Presented at the 13th Annual Meeting of the Organization for Human Brain Mapping, Chicago, IL.
- Geary, D. C. (2007, October). An evolutionary twist on sex, mathematics, and the sciences. Invited talk for conference on Women in Science. American Enterprise Institute, Washington, DC.
- Geary, D. C. (2008, May). An evolutionary twist on sex differences in mathematics and science. Invited seminar, Darwin Center, London School of Economics, London, UK.
- Geary, D. C. Hoard, M. K., Nugent, L., Bailey, D. H., & Wood, P. (2008, May). Cognitive deficits in children with mathematical learning disability: A longitudinal, latent class analysis. Invited talk Institute of Education, University of London, London, UK.
- Geary, D. (2008, November). Learning mathematics: Findings from the national (U.S.) mathematics advisory panel. Keynote address, international conference on issues and proposals in mathematics education sponsored by the Gulbenkian Foundation and the Portuguese Mathematical Society, Lisbon, Portugal.
- Geary, D. C. (2009, April). Evolutionary developmental psychology: Implications for modern education. Symposium presentation, biannual meeting of the Society for Research in Child Development, Denver, CO.
- Cho, S., Wu, S. S., Anguiano, J. M., Geary, D. C., & Menon, V. (2009, June) Neural correlates of individual differences in children's strategy use during early mental arithmetic learning. Presented at the 15th Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA.
- Rosenberg-Lee, M., Kondos, L., Barth, M., Geary, D., & Menon, V. (2009, June). Neural deficits underlying mathematical disability in children. Presented at the 15th Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA.
- Geary, D. C. (2009, July). Origin of mind: Evolution of brain, cognition, and general intelligence. Plenary address, summer institute, International Society for Human Ethology, Orono, ME.
- Geary, D. C. (2009, October). The evolved mind and the creation of culture: Implications for scientific discovery and learning. Invited address, From Child to Scientist: Mechanisms of Learning and Development A Festschrift in honor of the scientific and educational contributions of David Klahr, 37th Carnegie symposium on cognition. Pittsburgh, PA.

- Geary, D. C. (2010, April). The Missouri longitudinal study of mathematical development and disability. Invited talk, School of Education, Chinese University of Hong Kong, Hong Kong, China.
- Geary, D. C. (2010, May). Evolved cognitive biases, human intellectual talent, and the creation of culture. Invited keynote address, Wallace National Research Symposium on Talent Development, Iowa City, IA.
- Geary, D. C. (2010, June). Sexual selection and sex differences in vulnerability. Invited symposium talk, Fourth Annual Meeting, Organization for the Study of Sex Differences, Ann Arbor, MI.
- Rosenberg-Lee, M., Young, C., Tenison, C., Geary, D. & Menon, V. (2010, June). Neural Correlates of Developmental Dyscalculia in Children: Univariate and Multivariate Analysis. Poster presented at the 16th Annual Meeting of the Organization for Human Brain Mapping. Barcelona, Spain.
- Geary, D. C. (2010, November). Evolution and cultural expression of human sex differences. Invited address, 11th annual science and society symposium, European Molecular Biology Laboratory, Heidelberg, Germany.
- Geary, D. C. (2010, December). Evolution of sex differences in brain and cognition. Invited keynote address, annual meeting of the International Society for Research on Intelligence, Arlington, VA.
- Geary, D.C., Jasarevic, E., Rosenfeld, C.S. (2011, March). Collision of endocrine disruptors and developmental sex differences: How the chemical byproducts of our modern world may differentially affect boys and girls. Invited presentation, evolution and development preconference, biannual meeting of Society for Research in Child Development, Montreal, Canada.
- Geary, D.C., Hoard, M.K., Nugent, L., & Bailey, D.H. (2011, March). Missouri longitudinal study of mathematical development and disability: Predictors of long-term mathematical disability. Symposium presentation, biannual meeting of Society for Research in Child Development, Montreal, Canada.
- Geary, D.C. (2011, March). Cognitive predictors of achievement growth in mathematics and reading: A five year longitudinal study. Symposium presentation, biannual meeting of Society for Research in Child Development, Montreal, Canada.
- Geary, D. C. (2011, May). Sex differences in STEM occupations. Invited symposium presentation, American Enterprise Institute, Washington, DC.
- Jasarevic, E., Sieli, P. T., Warzak, D. A., Caldwell, L., Welsh, T. H., Hess, R. A., Schachtman, T., Geary, D. C., Rosenfeld, C. S. (2011, July). Maternal exposure to bisphenol A disrupts and reverses sex differences in deer mice (*Peromyscus maniculatus*) offspring. Presented at the annual meeting of the Society for the Study of Reproduction.
- Geary, D. C. (2011, June). The Missouri Longitudinal Study of Mathematical Development and Disability: The first five years. Invited, plenary talk, 3rd International Conference on Dyscalculia. London, UK.
- Geary, D. C. (2011, June). Learning mathematics: Findings from the national (U.S.) mathematics advisory panel. Invited, plenary talk, 3rd International Conference on Dyscalculia. London, UK.