Educational History

1992	Ph.D. in Psychology, University of Illinois at Urbana-Champaign
	Major: Cognitive and Experimental Psychology; Minors: Biological
	Psychology, Philosophy; Dissertation: The Error-Related Negativity: Evidence for a
	Neural Mechanism for Error-Related Processing; Advisors: Michael G. H. Coles and
	Emanuel Donchin
1985	A.B. in Psychology, summa cum laude, Phi Beta Kappa.
	Augustana College, Rock Island, IL; Advisor: Tyler S. Lorig

Professional Experience

Professor Emeritus, Department of Psychology, University of Michigan
Arthur F. Thurnau Professor Emeritus, University of Michigan
Professor, Department of Psychology, University of Michigan
Arthur F. Thurnau Professor, University of Michigan
Visiting Scholar, Graduate School of Education and Information Studies, UCLA
Associate Research Professor, Center for Human Growth and Development,
University of Michigan
Associate Professor, Department of Psychology, University of Michigan
(Cognition and Perception Area Chair, 2006–2008)
Assistant Professor, Department of Psychology, University of Michigan
Postdoctoral Fellow, Center for Neuroscience, University of California, Davis

Honors

2019, 2020	University Housing Honored Instructor, University of Michigan
2011	Fellow, Association for Psychological Science
2010	John Dewey Teaching Award, University of Michigan, College of LS&A
2009	University of Michigan Greek Community Outstanding Teaching Award
2004	Arthur F. Thurnau Professorship, "the University's highest award for excellence in undergraduate education"
1999	University of Michigan, College of Literature, Science, and the Arts, Excellence in Education Award
1994	National Institute of Neurological Disorders & Stroke Postdoctoral Fellowship (Individual Award)
1992-1993	McDonnell-Pew Postdoctoral Fellowship, UC Davis, Center for Neuroscience
1986-1989	National Science Foundation Graduate Fellowship, UIUC
1985-1986	Dallenbach Fellowship, UIUC
1985	Ralph Waldo Hansen Award for Excellence in Psychology, Augustana College
1985	John Lang Writing Excellence Award, Augustana College

Academic Interests

For over three decades, I have investigated how the brain processes errors and how error processing affects anxiety disorders and executive function. I was a co-discoverer of the error-related negativity (ERN), an event-related potential that occurs when people make errors. That original report has been cited over 3600 times and is the third highest cited article ever in the journal *Psychological Science*. My laboratory made the initial discovery that individuals with OCD show exaggerated ERN activity compared to healthy controls, which has spawned a large research literature on anxiety and the ERN. Since then, I have collaborated with colleagues in Psychiatry on a major research program using the ERN to understand the development of pediatric psychopathology, including OCD, ADHD, and autism. In a second major line of my research, I have collaborated with developmental psychologists, using rigorous causal inference techniques to understand how elementary school affects brain activity and executive function in children transitioning from pre-school to kindergarten.

Just as important to my scholarly identity is my interest in higher education and student success: teaching first-year college students cognitive science principles for academic success, developing new approaches to instruction, and exploring institutional factors that shape academic success. One of my most rewarding experiences has been creating and teaching a first-year seminar called "Cognitive Science of Academic Success," which distills evidence-based principles governing memory, attention, motivation, and anxiety into practical strategies that help students become self-directed learners. I taught a similar course in Michigan's Comprehensive Studies Program (CSP) Summer Bridge Program, Michigan's renowned program for students from underserved communities. I have always reserved half of my seats in the academic success class for CSP students. I have made numerous presentations on the cognitive science of learning for other audience, including professionals, high school students, and college students at the University of Michigan and elsewhere (see list below).

Most recently, I have focused on developing generative artificial intelligence tools that help undergraduates learn more effectively, using the same principles I teach in my courses. In my smaller online classes I combine generative AI with oral exams, an approach I describe in this video: https://ggl.link/gehring1. In larger classes I have developed AI tutoring tools to help students learn course materials. I have presented my approach to the university's Information Technology Teaching and Learning Group, who are responsible for classroom applications of generative AI at Michigan.

My interest in academic success extends to improving instruction. For three years I co-taught my department's graduate student instructor training course. My expertise in instructional practices led to roles on university committees, including chairing the search for the new director of Michigan's Center for Research on Learning and Teaching and chairing a provost's advisory team for engaged education and digital learning. I have developed a line of research uses institutional administrative data to understand the factors that contribute to undergraduate academic success, especially for students from under-resourced academic backgrounds. In a paper under revision with economist Julian Hsu, I use quasi-experimental methods and large-scale institutional data to uncover factors that promote or hinder student success. For example, we used a regression discontinuity design to show that university placement recommendations for Pre-Calculus vs. Calculus impact students' eventual likelihood of earning a STEM degree. Intriguingly, we also identified gender differences in how students respond to placement advice, underscoring the importance of tailoring interventions to specific student populations. Engaging with these institutional data sets has required me to develop new analytical skills, including merging and cleaning administrative records and applying rigorous causal inference techniques.

Courses Taught

Introduction to Cognitive Psychology (online, enrollment 30): Spring and Summer Terms, 2024, Spring and Summer Terms 2025.

Introduction to Cognitive Psychology (online, enrollment 330): Fall Term, 2024

Introduction to Cognitive Psychology (enrollment 350-450) (1995-2019, average instructor rating 4.9/5.0)

First-Year (Freshman) Seminar: Cognitive Science of Academic Success (enrl. 18; 2013-2020, average instructor rating 5.0/5.0)

Psychology Dept. Graduate Student Teaching Academy (instructor training) (2016-2018)

Comprehensive Studies Program/Summer Bridge Program: CSP 100 (2014)

Mind, Brain, and Spirituality (enrollment 300) (2013)

Cutting-Edge Cognition (upper-level undergraduate seminar) (2012)

First-Year (Freshman) Seminar: Mind, Brain, and Evil (a.k.a. Mind, Brain, and Violence)

First-Year (Freshman) Seminar: Consciousness

Group Section for Laboratories in Biopsychology

Methods in Cognitive Neuroscience

Graduate Seminar on Event-Related Brain Potentials

Cognition and Perception Graduate Preliminary Exam Preparation Seminar

Invited Talks on Improving Undergraduate Academic Success

UM Information and Technology Services Teaching and Learning Summit (2024) (on AI tutoring)

UM Information and Technology Services Teaching and Learning Group (2024) (on AI tutoring)

UM Bentley Historical Library Faculty Seminar (2019)

UM Ross School of Business Preparation Initiative Boot Camp (2012-2014, 2016-2018)

Chemistry 209, Structure and Reactivity Co-Requisite Seminar (2018)

Shiawassee Scholars Program (2015, 2017)

UCLA Graduate School of Education and Information Sciences (2018)

Campus Connections, UM Comprehensive Studies Program (2018)

UCLA Center for Education Innovation and Learning in the Sciences (2016)

UCLA Department of Psychology, Cognitive Forum (2016)

Guest lecture, Cognitive Development and Schooling course, UCLA (2016)

UCLA Robert and Elizabeth Bjork Lab Meeting, CogFog (2016)

University of Michigan Causal Inference in Education Research Seminar (2015)

University of Michigan LSA Institute on Diversity and Campus Climate. Session 4: Building Skills and Social Capital. (2014, 2015)

Bill McKeachie's Teaching Tips and "Learning to Learn": Lessons for Learning Analytics. Talk presented at the dedication of the Wilbert J. (Bill) McKeachie Auditorium, UM Psychology. (Marcy 27, 2015)

Institutional Challenges Dealing with the Underprepared/At-Risk Student Population. Chemical Sciences at the Interface of Education | University of Michigan (CSIE | UM) Program (2015)

Media Arts High School, Detroit (Jan. 27, 2015)

Ottawa Hills High School, Grand Rapid, MI (Oct. 22, 2014)

Athletic Department Academic Success Program, Freshman Transition Workshop for Student Athletes (Sept 21, 2014)

Symposium on Learning Analytics at Michigan (SLAM) (March 7, 2012; Nov 16, 2013)

UM Enriching Scholarship Conference Session on Best Practices for Improving Introductory Courses (May 6, 2014)

Classroom Climate. U of M LSA Advisors Professional Development Series. (March 26, 2014)

How Can We Improve Learner Success? Organizational Effectiveness and Diversity Seminar. University of Michigan Health System (Feb. 25, 2014)

Study Skills, Study Groups, and Faculty Coaching. UM LSA Faculty Diversity Workshop (Feb. 6, 2014)

Leadership Learning Coalition (UM administrative staff development program). (Oct. 18, 2014)

Summer Bridge Program Friday Lecture (July 28, 2012; July 12, 2013)

Leadership Learning Coalition (UM administrative staff development program) (Oct. 18, 2013)

Graduate Student Instructor Fall Training, UM Psychology Department (Sept 1, 2012)

Professional Memberships

Society for Research on Educational Effectiveness Association for Psychological Science

Professional Service

Editorial Positions

Editorial Board, Cognitive, Affective, and Behavioral Neuroscience (2007-2014)

Editorial Board, Psychological Science (2008-2012)

Associate Editor, International Journal of Psychophysiology (2009-2011)

Associate Editor, Cognitive, Affective, and Behavioral Neuroscience (2005-2007)

Associate Editor, *Psychophysiology* (2002-2005)

University of Michigan: College and University

NIH Data Safety Monitoring Board (2016-2019)

Grievance Hearing Board, University of Michigan (2017)

Comprehensive Studies Program Advisory Board (2014-2016)

Provost's Digital Innovation Advisory Group (2014-2015)

Chair, search committee for Director of the Center for Research on Learning and Teaching (CRLT) (2014-2015)

Developing a Tools and Technology Innovation Pipeline Subcommittee (2014-2015)]

Digital Program Pipeline Subcommittee (2014-2015)

University of Michigan Learning Analytics Task Force (2012-2015)

Ross Business School Preparation Initiative Advisory Committee (2014)

Comprehensive Studies Program Futures Task Force (2013-2014)

Provost's Task Force on Engaged Learning and Digital Instruction (2014)

Provost's Online Course (MOOC) Selection Committee (2012-13)

Curriculum Committee, College of Literature, Science, and the Arts (2012-2013)

Advisory Board, University of Michigan Center for Culture, Mind and Brain (2010-2013)

Teaching Academy, LSA/Center for Research on Learning and Teaching (2012)

U-M Teaching Evaluation Group (to reform methods for evaluating instruction) (2012)

University of Michigan Google Tools Faculty Learning Committee (2011-2012)

Selection Committee for Provost's Teaching Innovation Prize (2011-2012)

Faculty Panel, Workshop on Music and the Brain, UM Department of Musicology, April 15-16, 2011.

Faculty Panel, Workshop on Music and the Brain, UM Department of Musicology, March 26-27, 2010.

Arthur F. Thurnau Professorship Steering Committee (2009)

Provost's Council on Student Honors (Rhodes/Marshall Scholarship Nominations) (2006-2010)

New Student Summer Orientation Faculty Presenter (2005-2007)

Carnegie Academy on the Scholarship of Teaching and Learning Large Lecture Initiative, University of Michigan Center for Research on Learning and Teaching (2007)

U of M/Carnegie Academy on the Scholarship of Teaching and Learning Leadership program advisory committee (2006-2007)

University of Michigan Provost's Seminar on Teaching and Learning, session leader, "Enhancing Student Learning in Introductory Courses" (2007)

Faculty Advisor, Psychology Department Information Systems (2005-2006)

College of Literature, Arts, and Sciences Information Technology Committee (2005-2006)

Advisory Board, University of Michigan Center for Research on Learning and Teaching (2004-2006)

University of Michigan: Psychology Department

Student Academic Affairs Committee (2019-2020)

Admissions Chair, Cognition and Cognitive Neuroscience Area (2017-18, 2018-19, 2019-2020)

Assistant Professor Third-year Review Committee, chair (2018-2020)

Lecturers' Employee Organization Lecturer review committee (2020)

Undergraduate Education Self-Study Committee (2018-2019)

Executive Committee (2017-19)

Cognition and Cognitive Neuroscience Graduate Student Recruitment Committee (2017-18, chair 2018)

Promotion Review Panel (for Full Professor) (2017)

Graduate Admissions Chair, Cognition and Cognitive Neuroscience Area (2017)

Psychology Lecturers' Employee Organization Lecturer review committee (2016)

Student Academic Affairs Committee, Department of Psychology (2014-2015)

Department of Psychology Augmented Executive Committee (2011-2014)

Department of Psychology Student Academic Affairs Committee (2011-2012)

University of Michigan Cognition and Cognitive Neuroscience Admissions Committee, chair (2011-2012)

Undergraduate Concentration Advisor: Brain, Behavior and Cognitive Sciences Concentration (2009-2010)

Developmental Psychology Area Faculty Search Committee (2008-2009)

Cognition and Perception Area Graduate Recruitment Committee (2008-2009)

Chair, Cognition and Perception Area, Department of Psychology (2006-2008)

Pre-2005 Service: Faculty Search Committees for Cognition and Perception and Developmental Psychology;
Psychology Department Augmented Executive Committee (merit review and promotions); Psychology
Department Executive Committee; Office of the Vice President for Research, Advisory Panel for
Functional Magnetic Resonance Imaging Instrumentation Expansion; Psychology Department
Computing Committee; Information Technology Search Committee; Psychology Department Graduate
Committee; Cognition and Perception Admissions and Recruitment Committees; Cognition and
Perception Faculty Search Committees

Reviewer – Grants

National Institute of Mental Health: Cognition and Perception (BBBP-4) Study Section (ad hoc member), 2003, 2005; Special Emphasis Panel for Interdisciplinary Centers on Mental Health, 2004; B/START program ad hoc reviewer; NIMH Special Emphasis Panel on Cognitive Neuroscience, 2005, 2006, 2007; NIH Challenge Grants Panel BBBP L 58, 2009.

National Science Foundation ad hoc reviewer

University of Michigan Substance Abuse Research Center

University of Michigan Medical School Biomedical Research Council

Biotechnology and Biological Sciences Research Council (UK) Binational (Israel-US) Science Foundation

Ad Hoc Reviewer - Journals

Aggressive Behavior; Archives of General Psychiatry; Behavioral Neuroscience; Behavioural Brain Research; Biological Psychiatry; Biological Psychology; Brain; Brain and Language; Brain Research; Cognitive, Affective and Behavioral Neuroscience; Cognitive Brain Research, Developmental Psychobiology; Electroencephalography and Clinical Neurophysiology; European Journal of Neuroscience; Neurophysiology; Human Brain Mapping; JAMA Psychiatry, Journal of Behavioral Decision Making; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Human Perception and Performance; Journal of Experimental Psychology: Learning, Memory and Cognition; Journal of Forensic Sciences; Journal of Gerontology: Psychological Sciences; Journal of Neurophysiology; Journal of Neuroscience; Learning and Motivation; Nature; Nature Neuroscience; Neuroimage; Neuron; Neuropsychologia; Neuroreport; Neuroscience and Biobehavioral Reviews; Perspectives on Psychological Science; Proceedings of the National Academy of Sciences; Psychological Bulletin; Psychological Review; Psychological Science; Psychophysiology; Quarterly Journal Experimental Psychology; Science; Scientific Data; Studies in Educational Evaluation

Interviews and Features

Brown, K. (February 13, 1999). Oops....sorry. New Scientist.

National Public Radio Weekend Edition Sunday. (January 14, 2001). Interview. Audio: bit.ly/Gehring_NPR
Todd Mundt Show, National Public Radio (June 24, 2002). Interview.

New York Times (April 27, 2004). Quoted in "Passengers Feel the Driver's Anxiety, Too." Available at http://tinyurl.com/36fn6.

The University Record, University of Michigan (October 11, 2004). "U-M researchers study humor, starting with New Yorker cartoons." Available at http://www.umich.edu/~urecord/0405/Oct11_04/02.shtml Creating an Identity-Safe Classroom. University of Michigan blog post summarizing my February 2014 talk.

Grants

2020	DevEEG: A Robust Repository for Developmental Electroencephalogram Data. Role: Co-PI. PI
	Amy Pienta. Direct Costs: \$89,653.
2014-2019	Neurodevelopmental Pathways in Adolescent Health Risk Behavior, NIH. Role: Co-I. PI
	Daniel Keating. Direct Costs: \$2,743,864.
2014-2017	Exploring the Effects of Schooling on Changes in Behavioral and Neurological Indices of
	Children's Executive Functioning. National Science Foundation. Role: Co-PI. Direct
	Costs: \$496,032.
2013-2017	Action Monitoring and Exomic Variants in Obsessive-Compulsive Disorder, NIMH. Role: Co-
	PI. Direct Costs: \$1,557,254.
2013	Emotion Regulation in the Brain, M-Cubed Initiative Grant, University of Michigan, Role:
	Co-PI with Twila Tardif and Kate Fitzgerald, \$60,000.
2011-2015	LSA-Instructional Technology Committee: New Infrastructure/New Initiatives Award for
	Teaching with Technology Project (\$59,506).
2011-2015	Electrical Neuroimaging of Brain Processes During Human Gait, National Institutes of Health
	R01, Role: Co-I; Daniel Ferris, PI (\$1,501,560).

2010-2012	Schooling and Growth of Executive Functioning: Steps to an Integrative Approach, National
	Institute of Child Health and Human Development, R21, Co-PI with Fred Morrison
	(\$275,000).
2009-2011	Mechanisms for Error Detection and the Error-Related Negativity. University of Michigan
	Office of the Vice President for Research, Role: PI (\$14,822).
2008-2010	Error-Related Negativity in Unaffected Siblings of Youth with Obsessive-Compulsive Disorder,
	Obsessive-Compulsive Foundation, Role: Co-PI with Gregory Hanna (\$18,211).
2005-2010	Functional Neuroanatomy of Obsessive -Compulsive Disorder, National Institute of Mental
	Health R01. Role: Co-I; Stephan Taylor, PI (\$1,250,000).
2002-2004	The Medial Frontal Cortex and the Processing of Probability and Value, Role. University of
	Michigan Office of the Vice President for Research, PI (\$17,000)
1999-2001	Task Switching in Parkinson's Disease, Role: Co-I; Roger Albin, PI. University of Michigan
	Medical School (\$100,000)
1999-2001	Functional Magnetic Resonance Imaging of the Anterior Cingulate Cortex, Role: Co-I; Stephan
	Taylor, PI. University of Michigan Medical School (\$12,000)
1999-2000	Neural Correlates of Theory of Mind Reasoning in Preschoolers, Role: Co-I; Henry Wellman,
	PI. University of Michigan Office of the Vice President for Research (\$11,430)
1996-1997	The Neurocognitive Basis of Obsessive-Compulsive Disorder, Role: PI. University of Michigan
	Horace H. Rackham School of Graduate Studies Faculty Grant (\$15,000)
1995-1996	Brain Mechanisms for the Inhibition of Action, Role: PI. University of Michigan Office of the
	Vice President for Research (\$12,500)
1994-1996	Brain Mechanisms for the Inhibition of Action, Role: PI. National Institute of Mental Health
	B/START Grant (\$25,000)

Publications

Under review and in revision (drafts upon request)

Hsu, J., & Gehring, W. J. Math for all? Regression discontinuity in signals of preparation for college quantitative coursework. (In revision at Education Finance and Policy.)

In press and published

- Brown, T., Kim, K., Gehring, W. J., Lustig, C., & Bohnen, N. I. (2024). Sensitivity to and Control of Distraction: Distractor-Entrained Oscillation and Frontoparietal EEG Gamma Synchronization. *Brain Sciences*, 14(6), 609. https://doi.org/10.3390/brainsci14060609
- Hanna, G. L., Liu, Y., Rentschler, L., Hanna, B. S., Arnold, P. D., Gehring, W. J. (2024). Error monitoring and decreased flanker task accuracy in obsessive-compulsive disorder. *Child Psychiatry & Human Development*, 1-14. https://doi.org/10.1007/s10578-024-01711-4
- Liu, Y., Hampton Wray, A., Hall, M., Lescht, E. R., Gehring, W. J., Fitzgerald, K. D., Chang, S-E. Brain response to errors in children who stutter. (2024). *Journal of Fluency Disorders*, 79, 106035. [doi]
- Morrison, F. J., Grammer, J., Gehring, W. J., Weixler, L. B., Kim, M. H. (2024). Role of Self-Regulation in the Transition to School. In L. Verhoeven, S. Nag, C. Perfetti, & Pugh K. (eds.), *Global Variation in Literacy Development* (pp. 316-332). Cambridge: Cambridge University Press.
- Suzuki, T., Gu, P., Grove, T. B., Hammond, T., Collins, K. M., Pamidighantam, P., Arnold, P. D., Taylor, S. F., Liu, Y., Gehring, W. J., Hanna, G. L., & Tso, I. F. (2023). Abnormally enhanced midfrontal theta-band

- activity during response monitoring in youth with obsessive-compulsive disorder. *Biological Psychiatry* (93)11, 1031-1040. [doi]
- Rapp, A. M., Tan, P. Z., Grammer, J. K., Gehring, W. J., Miller, G. A., & Chavira, D. A. (2021). Cultural values influence relations between parent emotion socialization and adolescents' neural responses to peer rejection. *Research on Child and Adolescent Psychopathology*, 50, 255–267. [doi] [PDF]
- Rapp, A. M., Tan, P. Z., Grammer, J. K., Gehring, W. J., Miller, G. A., & Chavira, D. A. (2021). Cultural group differences in the association of neural sensitivity to social feedback and social anxiety among diverse adolescents. *Journal of Psychiatric Research*, 143, 400-408. [doi] [PDF]
- Ellis, A., Ahmed, S. F., Zeytinoglu, S., Isbell, E., Calkins, S. D., Leerkes, E. M., Grammer, J. K., Gehring, W. J., Morrison, F. J., & Davis-Kean, P. E. (2021). Reciprocal associations between executive function and academic achievement: A conceptual replication of Schmitt et al. (2017). *Journal of Numerical Cognition*, 7(3), 453-472. [doi] [PDF]
- Clayson, P. E., Kappenman, E. S., Gehring, W. J., Miller, G. A., & Larson, M. J. (2021). A commentary on establishing norms for error-related brain activity during the arrow flanker task among young adults. *NeuroImage*, 234, 117932. [doi] [PDF]
- Rapp, A. M., Grammer, J. K., Tan, P. Z., Gehring, W. J., Chavira, D. A., & Miller, G. A. (2021). Collectivism is associated with enhanced neural response to socially salient errors among adolescents. *Social Cognitive and Affective Neuroscience*, 16(11), 1150-1159. [doi] [PDF]
- Hanna, G. L., Liu, Y., Rough, H. E., Suprapeneni, B. B. A., Hanna, B. S., Arnold, P. D., Gehring, W. J. (2020). A diagnostic biomarker for pediatric Generalized Anxiety Disorder using the Error-Related Negativity. *Child Psychiatry & Human Development*, 51(5), 827-838. [doi] [PDF]
- Rough, H. E., Hanna, B. S., Gillett, C. B., Rosenberg, D. R., Gehring, W. J., & Arnold, P. D., & Hanna, G. L. (2020). Screening for pediatric obsessive-compulsive disorder using the Obsessive-Compulsive Inventory Child Version. *Child Psychiatry and Human Development, 51*, 888-899. [doi] [PDF]
- Liu, Y., Hanna, G. L., Rough, H. E., Arnold, P. D., & Gehring, William J. (2020). Behavioral and electrophysiological correlates of performance monitoring and development in children and adolescents with attention deficit/hyperactivity disorder. *Brain Sciences*, 10, 79. [doi] [PDF]
- Mathias, B., Gehring, W. J., & Palmer, C. (2019). Electrical Brain Responses Reveal Sequential Constraints on Planning during Music Performance. *Brain Sciences*, 9(2), 25. [doi] [PDF]
- Hanna, G. L., Liu, Y., Isaacs, Y. E., Ayoub, A. M., Brosius, A., Salander, Z., Arnold, P.D., & Gehring, W. J. (2018). Error-related brain activity in adolescents with obsessive-compulsive disorder and major depressive disorder. *Depression and Anxiety*, 35, 752-760. [doi] [PDF]
- Grammer, J. K., Gehring, W. J., & Morrison, F. J. (2018). Associations between developmental changes in error-related brain activity and executive functions in early childhood. *Psychophysiology*, 55(3), e13040. [doi] [PDF]
- Gehring, W. J., Goss, B., Coles, M. G. H., Meyer, D. E., & Donchin, E. (2018). The error-related negativity. Perspectives on Psychological Science, 13(2), 200-204. [doi] [PDF]
- Kim, M. H., Marulis, L. M., Grammer, J. K., Morrison, F. J., & Gehring, W. J. (2017). Motivational processes from expectancy–value theory are associated with variability in the error positivity in young children. *Journal of Experimental Child Psychology*, 155, 32–47. [doi] [PDF]

- Grabell, A. S., Olson, S. L., Tardif, T., Thompson, M. C., & Gehring, W. J. (2017). Comparing self-regulation-associated event related potentials in preschool children with and without high levels of disruptive behavior. *Journal of Abnormal Child Psychology*, 45(6), 1119-1132. [doi] [PDF]
- Mathias, B., Gehring, W. J., & Palmer, C. (2017). Auditory N1 reveals planning and monitoring processes during music performance. *Psychophysiology*, *54*(2), 235-247. [doi] [PDF]
- Kim, M. H., Grammer, J. K., Marulis, L. M., Carrasco, M., Morrison, F. J., & Gehring, W. J. (2016). Early math and reading achievement are associated with the error positivity. *Developmental Cognitive Neuroscience*, 22, 18–26. [doi] [PDF]
- Hanna, G. L., Liu, Y., Isaacs, Y. E., Ayoub, A. M., Torres, J. J., O'Hara, N. B., & Gehring, W. J. (2016). Withdrawn/depressed behaviors and error-related brain activity in youth with obsessive-compulsive disorder. *Journal of the American Academy of Child and Adolescent Psychiatry*, 55(10), 906–913.e2. [doi] [PDF]
- Hanna, G. L., & Gehring, W. J. (2016). The NIMH Research Domain Criteria Initiative and error-related brain activity [commentary]. *Psychophysiology*, *53*(3), 386-388. [doi] [PDF]
- Ferdinand, N.K., Becker, A.M.W., Kray, J., & Gehring, W.J. (2016). Feedback processing in children and adolescents: Is there a sensitivity for processing rewarding feedback? *Neuropsychologia*, 82, 31-38. [doi] [PDF]
- Liu, Y., Nelson, L. D., Bernat, E. M., & Gehring, W. J. (2014). Perceptual properties of feedback stimuli influence the feedback-related negativity in the flanker gambling task. *Psychophysiology*, *51*(8), 7828-788. [doi] [PDF]
- Grammer, J. K., Carrasco, M., Gehring, W. J., & Morrison, F. J. (2014). Age-related changes in error processing in young children: A school-based investigation. *Developmental Cognitive Neuroscience*, *9*, 93-105. [doi] [PDF]
- Hochman, E. Y., Orr, J. M., & Gehring, W. J. (2014). Toward a more sophisticated response representation in theories of medial frontal performance monitoring: The effects of motor similarity and motor asymmetries. *Cerebral Cortex*, 24(2), 414-425. [doi] [PDF]
- Liu, Y., Hanna, G. L., Carrasco, M., Gehring, W. J., & Fitzgerald, K. D. (2013). Altered relationship between electrophysiological response to errors and gray matter volumes in an extended network for error-processing in pediatric obsessive-compulsive disorder. *Human Brain Mapping*. [doi] [PDF]
- Carrasco, M., Hong C., C., Nienhuis, J. K., Harbin, S. M., Fitzgerald, K. D., Gehring, W. J., & Hanna, G. L. (2013). Increased error-related brain activity in youth with obsessive-compulsive disorder and other anxiety disorders. *Neuroscience Letters*, *541*, 214-218. [doi] [PDF]
- Carrasco, M., Harbin, S. M., Nienhuis, J. K., Fitzgerald, K. D., Gehring, W. J., & Hanna, G. L. (2013). Increased error-related brain activity in youth with obsessive-compulsive disorder and unaffected siblings. *Depression and Anxiety*, 30(1), 39-46. [doi] [PDF]
- Ferdinand, N. K., Mecklinger, A., Kray, J., & Gehring, W. J. (2012). The processing of unexpected positive response outcomes in the mediofrontal cortex. *Journal of Neuroscience*, 32(35), 12087-12092. [doi] [PDF]
- Hanna, G. L., Carrasco, M., Harbin, S. M., Nienhuis, J. K., LaRosa, C. E., Chen, P., Fitzgerald, K. D., & Gehring, W. J. (2012). Error-related negativity and tic history in pediatric obsessive-compulsive disorder. *Journal of the American Academy of Child and Adolescent Psychiatry, 51*(9), 902-910. [doi] [PDF]

- Liu, Y., Gehring, W. J., Weissman, D. H., Taylor, S. F., Fitzgerald, K. D. (2012). Trial-by-trial adjustments of cognitive control following errors and response conflict are altered in pediatric obsessive-compulsive disorder. *Frontiers in Psychiatry*, *3(41)*, 1-8. [doi] [PDF]
- Gehring, W. J., Liu, Y., Orr, J. M., & Carp, J. (2012). The error-related negativity (ERN/Ne). In S. J. Luck, & E. Kappenman (eds.), Oxford handbook of event-related potential components (pp. 231-291). New York: Oxford University Press. [PDF]
- Bernat, E.M., Nelson, L.D., Steele, V.R., Gehring, W.J., & Patrick, C. J. (2011). Externalizing psychopathology and gain/loss feedback in a simulated gambling task: Dissociable components of brain response revealed by time-frequency analysis. *Journal of Abnormal Psychology*, 120(2), 352-364. [doi] [PDF]
- Mai, X., Tardif, T., Doan, S. N., Liu, C., Gehring, W. J., Luo, Y-J. (2011). Brain activity elicited by positive and negative feedback in preschool-aged children. *PLoS One*, *6*(4), e18774. [doi] [PDF]
- Stern, E. R., Welsh, R. C., Fitzgerald, K. D., Gehring, W. J., Lister, J. J., Himle, J. A., Abelson, J. L, Taylor, S. F. (2011). Hyperactive error responses and altered connectivity in ventromedial and frontoinsular cortices in obsessive-compulsive disorder. *Biological Psychiatry*, *69*, 583-591. [doi] [PDF]
- Stern, E.R., Liu Y., Gehring, W.J, Lister, J.J., Yin, G., Zhang, J, Fitzgerald, K.D., Himle, J.A., Abelson, J.L., & Taylor, S.F. (2010). Chronic medication does not affect hyperactive error responses in obsessive-compulsive disorder. *Psychophysiology*, 47(5), 913-20. [doi] [PDF]
- Liu, C., Tardif, T., Mai, X., Simms, N., Gehring, W. J., & Luo, Y. (2010). What's in a name? Brain activities reveal categorization processes differ across languages. *Human Brain Mapping*, *31(11)*, 1786-1801. [doi] [PDF]
- Anguera, J. A., Seidler, R. D., & Gehring, W. J. (2009). Changes in performance monitoring during sensorimotor adaptation. *Journal of Neurophysiology*, 102, 1868-1879. [doi] [PDF]
- Liu, Y., & Gehring, W. J. (2009). Loss feedback negativity elicited by single- vs. conjoined-feature stimuli. Neuroreport, 20(6), 632-636. [doi] [PDF]
- Liu, D., Sabbagh, M. A., Gehring, W. J., & Wellman, H. (2009). Neural correlates of children's theory of mind development. *Child Development*, 80(2), 318-326. [doi] [PDF]
- Bernat, E. M., Nelson, L. D., Holroyd, C. B., Gehring, W. J., & Patrick, C. J. (2008). Separating cognitive processes with principal components analysis of EEG time-frequency distributions. *Proceedings of SPIE*, 7074, 7074S 1-10. [doi] [PDF]
- Taylor, S. F., Stern, E. R., & Gehring, W. J. (2007). Neural systems for error monitoring: Recent findings and theoretical perspectives. *The Neuroscientist*, 13, 160-172. [doi] [PDF]
- Gehring, W. J. (2006). Ordinary minds, extraordinary violence. *Science and Theology News, 6 (11/12), 36.*[PDF]
- Masaki, H., Takeuchi, S., Gehring, W. J., Takasawa, N., & Yamazaki, K. (2006). Affective-motivational influences on feedback-related ERPs in a gambling task. *Brain Research*, 1105, 110-121. [doi] [PDF]
- Sarter, M., Gehring, W. J., & Kozak, R. (2006). More attention must be paid: The neurobiology of attentional effort. *Brain Research Reviews*, *51*, 145-160. [doi] [PDF]
- Taylor, S. F., Martis, B., Fitzgerald, K. D., Welsh, R. C., Abelson, J. L., Liberzon, I., Himle, J. A., & Gehring, W. J. (2006). Medial frontal cortex activity and loss-related responses to errors. *The Journal of Neuroscience*, 26(15), 4063-4070. [doi] [PDF]
- Bernat, E., Williams, W. J., & Gehring, W. J. (2005). Decomposing ERP time-frequency energy using PCA. *Clinical Neurophysiology*, 116, 1314-1334. [doi] [PDF]

- Fitzgerald, K. D., Welsh, R. C., Gehring, W. J., Abelson, J.L, Himle, J.A., Liberzon, I., & Taylor, S. F. (2005). Error-related hyperactivity of the anterior cingulate cortex in obsessive-compulsive disorder. *Biological Psychiatry*, *57*, 287-294. [doi] [PDF]
- Gehring, W. J., & Taylor, S. F. (2004). When the going gets tough, the cingulate gets going. *Nature Neuroscience*, 7, 1285 1287. [doi] [PDF]
- Masaki, H., Gehring, W. J., Takasawa, N., Yamazaki, K. (2004). The functional significance of the error-related negativity in action monitoring. *Japanese Journal of Physiological Psychology and Psychophysiology, 22(1), 3-18.* [doi] [PDF]
- Gehring, W. J. & Willoughby, A. R. (2004). Are all medial frontal negativities created equal? Toward a richer empirical basis for theories of action monitoring. In M. Ullsperger & M. Falkenstein (eds.), *Errors, Conflicts, and the Brain. Current Opinions on Performance Monitoring* (pp. 14-20). Leipzig: Max Planck Institute of Cognitive Neuroscience. [PDF]
- Liu, D., Sabbagh, M. A., Gehring, W. J., & Wellman, H. M. (2004). Decoupling beliefs from reality in the brain: An ERP study of theory of mind. *Neuroreport*, *15*, 991-995. [doi] [PDF]
- Taylor, S. F., Welsh, R. C., Wager, T. D., Luan Phan, K. L., Fitzgerald, K. D., & Gehring, W. J. (2004). A functional neuroimaging study of motivation and executive function. *Neuroimage*, *21*, 1045-1054. [doi] [PDF]
- Gehring, W. J., Karpinski, A., & Hilton, J. L. (2003). Thinking about interactions. *Nature Neuroscience*, 6, 1241-1243. [doi] [PDF]
- Gehring, W. J., Bryck, R., Jonides, J., Albin, R., & Badre, D. (2003). The mind's eye, looking inward? In search of executive control in internal attention switching. *Psychophysiology*, 40, 572-585. [doi] [PDF]
- Gehring, W. J., & Willoughby, A. R. (2002). The medial frontal cortex and error potentials [letter]. *Science*, 296, 1610-1611. [PDF]
- Gehring, W. J., & Willoughby, A. R. (2002). The medial frontal cortex and the rapid processing of monetary gains and losses. *Science*, *295*, 2279-2282. [doi] [PDF]
- Gehring, W. J., & Knight, R. T. (2002). Lateral prefrontal damage affects processing selection but not attention switching. *Cognitive Brain Research*, 13, 262-279. [doi] [PDF]
- Gehring, W. J., & Fencsik, D. E. (2001). Functions of the medial frontal cortex in the processing of conflict and errors. *The Journal of Neuroscience*, 21(23), 9430-9437. [doi] [PDF]
- Gehring, W. J., & Knight, R. T. (2000). Prefrontal cingulate interactions in action monitoring. *Nature Neuroscience*, *3*, 516-520. [doi] [PDF]
- Gehring, W. J., Himle, J., & Nisenson, L. G. (2000). Action monitoring dysfunction in obsessive-compulsive disorder. *Psychological Science*, 11, 1-6. [doi] [PDF]
- Awh, E., & Gehring, W. J. (1999). The anterior cingulate cortex lends a hand in response selection. *Nature Neuroscience*, 2, 853-854. [doi] [PDF]
- Scheffers, M. K., Coles, M. G. H., Bernstein, P., Gehring, W. J., & Donchin, E. (1996). Event-related brain potentials and error-related processing: An analysis of incorrect responses to go and no-go stimuli. *Psychophysiology*, 33, 42-53. [doi] [PDF]
- Gehring, W. J., Coles, M. G. H., Meyer, D. E., & Donchin, E. (1995). A brain potential manifestation of errorrelated processing. In G. Karmos, M. Molnar, V. Csepe, I. Czigler and J. E. Desmedt (Eds.) *Perspectives of Event-Related Potentials Research, Electroencephalography and Clinical Neurophysiology, Supplement 44* (pp. 287-296). [PDF]

- Gehring, W. J., & Coles, M. G. H. (1994). Expectancy and response strategy to sensory stimuli [Comment]. Neurology, 44, 2212-2213.
- Gehring, W. J., Goss, B., Coles, M. G. H., Meyer, D. E., & Donchin, E. (1993). A neural system for error detection and compensation. *Psychological Science*, 4, 385-390. [doi] [PDF]
- Coles, M. G. H., Gehring, W., Gratton, G., & Donchin, E. (1992). Response activation and verification: A psychophysiological analysis. In G. E. Stelmach & J. Requin (Eds.), *Tutorials in motor behavior II* (pp. 779-792). Amsterdam: North Holland.
- Gehring, W. J., Gratton, G., Coles, M. G. H., & Donchin, E. (1992). Probability effects on stimulus evaluation and response processes. *Journal of Experimental Psychology: Human Perception and Performance*, 18, 198-216. [doi] [PDF]
- Coles, M. G. H., de Jong, R., Gehring, W. J., & Gratton, G. (1991). Continuous versus discrete information processing: Evidence from movement-related potentials. In C. H. M. Brunia (Ed.), *Proceedings of the Ninth International Conference on Event-Related Potentials of the Brain (EEG Supplement 42)* (pp. 260-269). Amsterdam: Elsevier.
- Coles, M. G. H., Gratton, G., & Gehring, W. J. (1987). Theory in cognitive psychophysiology. *Journal of Psychophysiology*, 1, 13-16.
- Lorig, T. S., Gehring, W. J., & Hyrn, D. L. (1986). Period analysis of the EEG during performance of the Trail Making Test. *The International Journal of Clinical Neuropsychology*, *8*, 97-99.
- Lorig, T. S., Brown, D., & Gehring, W. J. (1986). Period analysis of the EEG during timing. *The International Journal of Clinical Neuropsychology*, 8, 9-11.

Manuscripts in Preparation

Grammer, J. K., Gehring, W. J., Hazlett, C., Kim, M., & Morrison, F. J. Schooling effects on error-related brain activity.

Invited Talks

University of Chicago, 5/23/2002

McGill University, Killam Lecture Series, 4/1/2003

Chinese University, Hong Kong, 11/22/2003

Kanazawa Institute of Technology, Kanazawa, Japan, 12/11/2003

Institute for Psychology, Chinese Academy of Sciences, Beijing, China, 11/25/2003

Capital Normal University, Beijing, China, 11/28/2003

Waseda University, Tokorozawa, Japan, 5/25/2003

Max Planck Institute for Cognitive Neuroscience, Leipzig, Germany, 4/2/2004

Center for Forensic Psychiatry, Milan, Michigan, 11/05/2004

University of Minnesota, 12/14/2004

Rice University, 4/1/2005

NSF and Stonybrook Conference on Undergraduate Education, Washington, DC 11/9/2006

Vanderbilt University, 12/6/2006

Johns Hopkins University, 2/21/2007

University of Minnesota, 4/3/2008

McGill University, Killam Lecture Series, 5/10/2009

Annual Conference on Psychiatry and Behavioral Sciences, Keynote Address, University of Toledo and Bowling Green State University, 4/19/2012.

Beckman Institute, University of Illinois Urbana-Champaign, 10/29/2012.

11th Dutch Endo-Neuro-Psycho Meeting (ENP 2013), Keynote Address, Lunteren, The Netherlands, 5/31/2013

UCLA Department of Education and Information Sciences, 1/11/2016

UCLA Department of Psychology Cognitive Forum, 3/11/2016.

UCLA Center for Education, Innovation, and Learning in the Sciences, 5/13/2016.

UCLA Department of Education and Information Sciences, 1/8/2018

Drexel University Department of Psychology Graduate Seminar on EEG/ERP, 11/3/2021

Recent (since 2013) and Important Conference Presentations

- Suzuki, T., Gu, P., Liu, Y., Taylor, S., Arnold, P., Gehring, W., Hanna, G., Tso, I. (2023). Psychometric Analyses of Response and Conflict Monitoring Midfrontal Theta-Band Oscillatory Activities. Poster presented at the Annual Meeting of the Society of Biological, April 27 29, 2023 in San Diego, CA. Appears as *Biological Psychiatry*, 93(9), S300. https://doi.org/10.1016/j.biopsych.2023.02.750.
- Suzuki, T., Gu, P., Arnold, P. D., Taylor, S., Liu, Y., Gehring, W., Hanna, G., Tso, I. (2022). Midfrontal Theta-Band Activity During Response Monitoring in Pediatric Patients With Attention-Deficit/Hyperactivity Disorder and Other Psychiatric Conditions. Poster presented at the 61st Annual Meeting of the American College of Neuropsychopharmacology, December 4-7, 2022, Phoenix, Arizona. Appears as Neuropsychopharmacology, 47, 501.
- Gu, P., Tso, I., Taylor, S., Arnold, P., Liu, Y., Gehring, W., Hanna, G., Suzuki, T. (2022). Midfrontal Theta-Band Activities During Response Monitoring in Non-Obsessive-Compulsive Anxiety Disorders. Poster presented at the 35th Annual Meeting of the Society for Research in Psychopathology, September 8-11, 2022, Philadelphia, Pennsylvania.

- Collins, K., Hanna, B. S., Gehring, W. J., Rosenberg, D., Arnold, D., Hanna, G. (2021). Planning deficits in pediatric cases with current or past obsessive-compulsive disorder. Poster presented at the 68th Annual Meeting of the American Academy of Child and Adolescent Psychiatry, October 18-30, 2021. Appears as *Journal of the American Academy of Child & Adolescent Psychiatry* 60(10), \$203
- Suzuki, T., Gu, P., Grove, T. B., Hammond, T., Collins, K. M., Pamidighantam, P., Arnold, P. D., Taylor, S. F., Liu, Y., Gehring, W. J., & Hanna, G. L., & Tso, I.F. (2021). Abnormal midfrontal theta-band activity during response monitoring in children with obsessive-compulsive disorder. Poster presented at the 60th Annual Meeting of the American College of Neuropsychopharmacology, December 5-8, 2021, San Juan, Puerto Rico. *Neuropsychopharmacology*, 46 (Suppl 1), 308.
- Grammer, J., Isbell, E., Kim, M., Gehring, W., Hazlett, C., & Morrison, F. (2021, April). The impact of school experience on cognitive control processes. Society for Research in Child Development Biennial Meeting.
- Ellis, E., Ahmed, s., Zeytinoglu, S., Isbell, E., Leerkes, E., Grammer, J., Gehring, W., Morrison, F., & Daivs-Kean, P. (2021, April). Executive function and academic achievement: bidirectional or unidirectional? A conceptual replication of Schmitt et al. (2017). Society for Research in Child Development Biennial Meeting.
- Rapp, A. M., Grammer, J. K., Tan, P. Z., Gehring, W., Miller, G. A., & Chavira, D. A. (2020, March). Attentional shifting mediates the association of neural sensitivity to social context and social anxiety. Symposium talk to be presented at the 2020 Anxiety and Depression Association of America (ADAA) Annual Conference, San Antonio, TX.
- Rapp, A., Chavira, D., Gehring, W., Grammer, J., Miller, G. A., & Tan, P. (2019, March). Neural response to peer feedback is associated with social anxiety severity in adolescents. Symposium talk to be presented at the Society for Research in Child Development (SRCD) Biennial Meeting, Baltimore, MD.
- Gehring, W. J. (2019). ERN!...ERN? Talk presented at the Emanuel Donchin Memorial Symposium, Fifty-Ninth Annual Meeting of the Society for Psychophysiological Research, Washington, DC, September 25-29th 2019.
- Rough, H.E., Hanna, B. S., Gehring, W. J., Arnold, P. D., Rosenberg, D. R., Hanna, G. L. (2019). Screening for pediatric OCD using the Obsessive-Compulsive Inventory=Child Version (OCI-CV). *Journal of the American Academy of Child & Adolescent Psychiatry*, 58 (10), S260. Talk presented at the annual meeting or the American Academy of Child and Adolescent Psychiatry.
- Hanna, G., Liu, Y., Isaacs, Y., Rough, H., Hanna, B., Arnold, P., Gehring, W. (2019). Increased error-related brain activity in pediatric anxiety disorders. *Biological Psychiatry*, 85(10). S220-S221. Talk presented at the annual meeting of the Society for Biological Psychiatry.
- Hanna, G. L., Liu, Y., Isaacs, Y. E., Ayoub, A. M., Arnold, P. D., Gehring, W. J. Increased error-related brain activity in youth with anxiety disorders. Poster presented at the 65th annual meeting of the American Academy of Child and Adolescent Psychiatry. Seattle, WA., October 22-27, 2018.
- Grammer, J., Xu, K., Kim, M., Hazlett, C., Morrison, F., Gehring, W. Examining the neural and behavioral correlates of young children's response inhibition. Paper presented at DEVSEC: Conference on the Use of Secondary and Open Source Data in Developmental Science. Phoenix, Arizona, Oct. 4-6, 2018.
- Hsu, J., & Gehring, W. J. (2018, March). Machine Learning Guided Evaluation of a College Program for Under-Prepared Students. Paper to be presented at the annual meeting of the Society for Research on Educational Effectiveness, Washington D. C.

- Torgrimson, S. J., Grammer, J., Kim, M. H., Morrison, F., & Gehring, W. J. (2017, April). *Executive functions and academic success: Neural indices of response inhibition relate to children's literacy and math achievement.* Presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.
- Ahmed, S. F., Salander, Z., Waters, N. E., Grammer, J. K., Gehring, W.J, & Morrison, F. J. (2017, April). Self-regulation during the early school transition: An ERP exploration. Poster presented at the biennial meeting of the Society for Research in Child Development (SRCD), Austin, TX
- Hsu, J., & Gehring W. J. (2016, March). Math for all? Evidence from regression discontinuities in college math recommendations. Paper presented at the annual meeting of the Association for Education Finance and Policy, Denver, CO.
- Hsu, J., & Gehring W. J. (2016, March). Math for all? Evidence from regression discontinuities in college math recommendations. Paper presented at the annual meeting of the Society for Research on Educational Effectiveness, Washington, D.C.
- Cho, L. I., Karabenick, S. A., Gehring, W. J. (2016, April). Incremental analysis of "noncognitive" predictors of achievement: determining contributions over measures of cognitive ability. Poster presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Grammer, J. G., Kim, M., Gehring, W., & Morrison, F. (2015, April). Associations between non-task behavior and error monitoring in children undergoing ERP testing. In K. Fitzgerald & J. Moser (Chairs). Error Monitoring Brain Activity in Child and Adolescent Anxiety. Paper presented at the annual meeting of the Anxiety and Depression Association of America, Miami, FL.
- Salander, Z. B., Grammer, J.K., O'Hara, N., Carrasco, M., Gehring, W.J., & Morrison, F. J., (2015, October). Examining the electrophysiological correlates of response inhibition in young children. Poster presented at the Seventh Biennial Meeting of the Cognitive Development Society, Columbus, OH.
- Marulis, L. M., Kim, M. H., Grammer, J. K., Carrasco, M., Morrison, F. J., & Gehring, W. J. (2015). The association between young children's metacognitive knowledge, error-related brain activity, and reading and math skills. Poster presented at the Biennial meeting of the Society for Research in Child Development, Philadelphia, PA
- Aguilar, S., Karabenick, S., Gehring, W.J, Lonn, S. (2015). Better than Predicted? Modeling College Math Students' Predictions of Future Exam Performance. Paper presented at the Annual Meeting of the American Educational Research Association. Chicago, IL.
- Grammer, J., Kim, M., Carrasco, M., Gehring, W., & Morrison, F. (2014). Literacy and executive functions: An electrophysiological perspective. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Santa Fe, NM.
- Grammer, J., Kim, M., Gehring, W., & Morrison, F. (2014). Examining neurophysiological correlates of executive function in elementary schools. Poster presented at the SRCD Special Topic Meeting: Strengthening connections among child and family research, policy, and practice, Alexandria, VA.
- Kim, M. H., Marulis, L. M., Grammer, J. K., Gehring, W. J., & Morrison, F. J. (2014). Motivational beliefs and achievement-related emotions are associated with error monitoring processes: Linking brain and behavioral perspectives. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Santa Fe, NM.

- Marulis, L. M., Kim, M. H., Grammer, J. K., Carrasco, M., Morrison, F. J., & Gehring, W. J. (2013). How does young children's metacognitive knowledge relate to their error-related brain activity and academic achievement? Paper presented at the European Association for Research on Learning and Instruction Biennial Conference, Munich, Germany.
- Torres, J.J., Habhab, S. N., Eckles, L. M., Sareini, M. A., Gehring, W. J. (2013, April). Error-related negativity elicited by a correct response within an erroneous movement sequence. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Marulis, L. M., Kim, M. H., Grammer, J. K., Carrasco, M., Morrison, F. J., & Gehring, W. J. (2013, April). Young children's inhibitory control skills are associated with error-related brain activity. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Kim, M. H., Marulis, L. M., Grammer, J. K., Carrasco, M., Morrison, F. J., & Gehring, W. J. (2013, April). Motivational characteristics of young children are associated with error-related brain activity. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Gehring, W. J., Himle, J., & Nisenson, L. G. (1998). Action monitoring deficits in obsessive-compulsive disorder. Talk presented at the Annual Meeting of the Society for Psychophysiological Research, Atlanta, September 23-27, 1998.
- Gehring, W. J. (1994). Electrophysiological studies of executive control in humans with frontal lobe lesions. Psychophysiology, 31, S13 (abstract). Paper presented for a symposium Converging Perspectives on Frontal Lobe Function (symposium chair: W. Gehring), at the Thirty-fourth Annual Meeting of the Society for Psychophysiological Research, Atlanta, October 5-9, 1994.
- Gehring, W. J., & Knight, R. T. (1994). An electrophysiological study of prefrontal executive control. Poster presented at the inaugural meeting of the Cognitive Neuroscience Society, San Francisco, March 27-29, 1994.
- Gehring, W. J., & Coles, M. G. H. (1992). An event-related potential accompanying errors in choice reaction-time tasks. Invited paper presented at the Tenth International Conference on Evoked Potentials (EPIC X), Eger, Hungary, May 29 June 5, 1992.
- Gehring, W. J., Coles, M. G. H., Meyer, D. E., & Donchin, E. (1990). The error-related negativity: An event-related brain potential accompanying errors. *Psychophysiology*, *27*, S34 (abstract).
- Gehring, W. J., & Kramer, A. (1989). Event-related brain potentials and delayed pitch recognition. *Psychophysiology*, 26, S28 (abstract).
- Gehring, W., Gratton, G., Coles, M. G. H., & Donchin, E. (1988). Feature analysis and the N2b component of the event-related brain potential. *Psychophysiology*, 25, 449 (abstract).
- Gehring, W. J., Strayer, D. L., Kramer, A. F., Donchin, E., & Miller, G. A. (1987). An evaluation of age differences in the development of automaticity. *Proceedings of the 4th International Conference of Cognitive Neuroscience*, Paris-Dourdan, France (abstract).
- Gehring, W. J., Gratton, G., Coles, M. G. H., & Donchin, E. (1986). Response priming and components of the event-related brain potential. *Psychophysiology*, *23*, 437-438 (abstract).