Kirk I. Erickson, Ph.D. Curriculum Vitae

Professor
Department of Psychology
Center for the Neural Basis of Cognition
University of Pittsburgh
3107 Sennott Square
210 South Bouquet St.
Pittsburgh, PA 15260

Email: kiericks@pitt.edu Phone: 412-624-4533

Professional History

Professor 2017-current Department of Psychology Center for the Neural Basis of Cognition University of Pittsburgh **Associate Professor** 2013 - 2017 Department of Psychology Center for the Neural Basis of Cognition University of Pittsburgh **Assistant Professor** 2011 School of Medicine, Department of Geriatric Medicine University of Pittsburgh **Teaching Faculty** 2011 - current Center for Neuroscience University of Pittsburgh **Assistant Professor** 2008 - 2013 Department of Psychology Center for the Neural Basis of Cognition

Post-doctoral Scientist

University of Pittsburgh

2005 - 2008

Beckman Institute for Advanced Science and Technology Department of Psychology Neuroscience Program University of Illinois at Urbana-Champaign

Education

Graduate Education 1999 – 2005

Department of Psychology, University of Illinois at Urbana-Champaign

Awarded Doctor of Philosophy degree in 2005.

Thesis title: "Training-induced changes in dual-task fMRI activation in young and old adults".

Mentor: Dr. Arthur Kramer

Undergraduate Education

1996 - 1999

Marquette University, Milwaukee, WI St. Clare's College, Oxford, UK

Awarded Bachelor of Art's degree in 1999.

Fellowships and Awards

Fellow, Academy of Behavioral Medicine Research	2016
Chancellor's Distinguished Research Award	2015
Senior Beckman Institute Fellow	2014
Illinois Transdisciplinary Obesity Prevention Program Visiting Faculty Scholar	2014
Neal Miller Young Investigator Award from Academy of Behavioral Medicine Research	2013
Pepper Center Junior Scholar Award	2010 - 2011
NIMH Cognitive Psychophysiology Training Fellowship	2004
Psychology Department Travel Award	2004
Graduate College Travel Award	2004
Paul D. Doolen Scholarship for the Study of Aging	2003 - 2004
Beckman Institute Predoctoral Fellowship	2002 - 2003
NIMH Cognitive Psychophysiology Training Fellowship	2001 - 2002

Teaching

Undergraduate Courses

Introduction to Psychology (2009)

Psychology of Aging (2009, 2010, 2011, 2015, 2016, 2017)

Advanced Research Methods: functional MRI (2012; 2013, 2015)

Graduate Courses

Health and Aging (2010; 2013)

Neuroimaging Methodology (2010; 2012)

Advanced Laboratory Methods: functional MRI (2011; 2013; 2015)

Other Courses

Co-Director of Psychology Department Genetics Journal Club (2010-present)

Center for Neuroscience Graduate Journal Club (2012)

Coordinator, Biological/Health Psychology Brown Bag (2012)

Multi-modal Neuroimaging Training Program – fMRI series (2014)

Guest Lectures

Behavioral Medicine Interventions 20	016
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University of Pittsburgh, Department of Psychology

Dr. Tom Kamarck

Chronic Disease Case Studies 2016, 2017, 2018

University of Pittsburgh, Department of Health and Physical Activity

Dr. Christopher Kline

Chronic Disease Case Studies 2015

University of Pittsburgh, Department of Health and Physical Activity

Dr. Renee Rogers

Research Emphasis in Chronic Disorders	2013
University of Pittsburgh, Department of Epidemiology	
Dr. Lora Burke	
Advanced Laboratory Methods – Magnetic Resonance Imaging	2011
University of Pittsburgh	
Dr. John Jakicic	
Introduction to Biology	2008
Art Institute of Pittsburgh	
Ms. Barbara Suever	
Cognitive Neuroscience	2006
Illinois Wesleyan University	
Dr. Renee Countryman	
fMRI Methods	2005
University of Illinois Urbana-Champaign	
Dr. Stan Colcombe	
Neurobiology of Aging	2005
University of Illinois Urbana-Champaign	
Dr. Donna Korol	
Estrogen and Aging	2005
University of Illinois Urbana-Champaign	
Dr. Donna Korol	
Neuropsychology	2002
University of Illinois Urbana-Champaign	
Dr. Wendy Heller	
Cognitive Psychology	2002
University of Illinois Urbana-Champaign	
Dr. Mike Wilson	

Mentoring

Junior Faculty

Marc Coutanche (University of Pittsburgh) Klaus Libertus (University of Pittsburgh)

Post-doctoral and K-awardee mentoring

2015-	Dr. Chelsea Stillman – T32 primary mentor
2013-	Dr. Christina Hugenschmidt - K99 consultant
2013-2015	Dr. Kristine Wilckens - T32 co-mentor
2014-2016	Dr. Fatma Uyar – Post-doctoral mentor
2011-2012	Dr. Tim Verstynen – Post-doctoral mentor

Current Graduate (PhD) Students:

Sarah Aghjayan (started 2017)

Program: Clinical/Health Psychology

Awards:

• University of Pittsburgh Art's and Sciences Fellowship - 2017

Alina Lesnovskaya (started 2017)

Program: Clinical/Health Psychology

Jamie Cohen (started in 2015)

Program: Clinical/Health Psychology

Awards:

• University of Pittsburgh Art's and Sciences Fellowship – 2015-2016

- E.B. Huey Award 2016
- Predoctoral Training Fellowship in Behavioral Brain Research 2017-2018
- Bassell Student Publication Award 2018

Lauren Oberlin (started 2012)

Program: Clinical/Health Psychology

Awards:

- Predoctoral Training Fellowship in Behavioral Brain Research 2014
- Multi-Modal Neuroimaging Training Program (MNTP) fellowship 2015
- Bassell Student Publication Award 2015
- Bassell Student Publication Award 2016
- Mellon Scholarship 2017-2018
- Bassell Student Publication Award 2018

Completed PhD Students:

Destiny Miller (started 2009) - Defended 2013

Program: Biological/Health Psychology (transitioned from Social Psychology program) Awards:

• Center for Neural Basis of Cognition Teaching Fellowship (2011)

Andrea Weinstein (started 2009) - Defended 2015

Program: Clinical/Health Psychology

Awards:

- University of Pittsburgh Art's and Sciences Fellowship
- Predoctoral Training Fellowship in Behavioral Brain Research
- International Neuropsychological Society Phillip K. Rennick Award for Excellence
- Travel Award, Alzheimer's Association International Conference, Vancouver, Canada
- Mellon Scholarship 2013-2014
- Lazovik Dissertation Award 2013-2014
- NRSA fellowship 2014-2015
- APA Division 20 Walter G. McMillen Memorial Award for Parkinson's Disease Research –
 2014
- Bassell Student Award 2015

Regina Leckie (started 2011) - Defended 2016

Program: Cognitive Psychology

Awards:

- Ruth L. Myers Mentoring Excellence Award 2014
- Multi-Modal Neuroimaging Training Program (MNTP) fellowship 2015
- Mellon Scholarship 2015-2016

Swathi Gujral (started 2012) - Defended 2018

Program: Clinical/Health Psychology

Awards:

- University of Pittsburgh Art's and Sciences Fellowship 2012
- National Science Foundation (NSF) Graduate Fellowship 2014-2017
- Bassell Student Publication Award 2014
- Lazovik Dissertation Award 2015-2016

Master's Degree Committee

Kristine Wilckens (Advisor: Dr. Mark Wheeler) - 2009

Andrea Weinstein (Chair) - 2012

Ikechukwu Onyewuenyi (Advisor: Dr. Peter Gianaros) - 2012

Regina Leckie (Chair) - 2013

Bart Larsen (Advisor: Dr. Bea Luna) - 2013 Becky Roush (Advisor: Dr. Nancy Glynn) - 2013

Jon Siegel (Advisor: Dr. Mark Wheeler) - 2014

Swathi Gujral (Chair) - 2014 Lauren Oberlin (Chair) - 2014

Rebecca Emery (Advisor: Dr. Michele Levine) – 2015 Lea Martin (Advisor: Dr. Michael Sayette) - 2016

Jamie Cohen (Chair) - 2017

Comprehensive Exam Committee

Destiny Miller (Chair) – 2010

Kristine Wilckens (Advisor: Dr. Mark Wheeler) - 2010 Aarthi Padmanabhan (Advisor: Dr. Bea Luna) - 2011 Michelle Carter (Advisor: Dr. Amy Wagner) - 2011

Andrea Weinstein (Chair) - 2012

Hyunjung Oh (Advisor: Dr. Etienne Sibille) - 2012

Adrienne Taren (Carnegie Mellon University; Advisor: Dr. David Creswell) - 2013

Regina Leckie (Chair) - 2013

Ikechukwu Onyewuenyi (Advisor: Dr. Peter Gianaros) - 2014

Mary Gilliam (Advisor: Dr. Daniel Shaw) - 2014 Scott Marek (Advisor: Dr. Bea Luna) - 2014

Shannon Donofry (Advisor: Dr. Kathryn Roecklein) - 2015 Megan Miller (Advisor: Dr. Kathryn Roecklein) - 2015 Susan Kuo (Advisor: Dr. Michael Pogue-Geile) - 2016

Swathi Gujral (Chair) - 2016 Lauren Oberlin (Chair) - 2016

Lisanne ten Brinke (University of British Columbia; Advisor: Dr. Teresa Liu-Ambrose) - 2016

Jamie Cohen (Chair) - 2018

Doctoral Degree Committee

Victoria Egizio (Advisor: Dr. J. Richard Jennings) – completed 2011 Jessica Yokley (Advisor: Dr. Michael Pogue-Geile) – completed 2012 Kristin Long (Advisor: Dr. Anna Marsland) – completed 2012

Lindsay Jorgensen (Advisor: Dr. Catherine Palmer) – completed 2012 Kristine Wilckens (Advisor: Dr. Mark Wheeler) – completed 2012

Laura Chaddock (University of Illinois; Advisor: Dr. Arthur Kramer) – completed 2012

Aarthi Padmanabhan (Advisor: Dr. Bea Luna) - completed 2012

Lindsay Victoria (Carnegie Mellon University; Advisor: Dr. Michael Tarr) - completed 2013

Teresa (Qu) Tian (Advisor: Dr. Caterina Rosano) – completed 2013

Stephanie Davis (Advisor: Dr. Jen Silk) - completed 2014

Michelle Failla-Carter (Advisor: Dr. Amy Wagner) - completed 2014

Hyunjung Oh (Advisor: Dr. Etienne Sibille) – completed 2015

Adrienne Taren (Carnegie Mellon University; Advisor: Dr. David Creswell) - completed 2015

Dani Simmonds (Advisor: Dr. Bea Luna) - completed 2015

Andrea Weinstein (Chair) – completed 2015

Regina Leckie (Chair) - completed 2016

David Montez (Advisor: Dr. Bea Luna) - completed 2016

Shinjini Kungu (Carnegie Mellon University; Advisor: Dr. Gustave Rhode) - completed 2016

Scott Marek (Advisor: Dr. Bea Luna) - completed 2017

Beata Ferencz (Karolinska Institute; Advisor: Lars Backman) - completed 2017

Megan Miller (Advisor: Dr. Kathryn Roecklein) - completed 2017

Shannon Donofry (Advisor: Dr. Kathryn Roecklein) - completed 2017

Swathi Gujral (Chair) – completed 2018

Lisanne ten Brinke (University of British Columbia; Advisor: Dr. Teresa Liu-Ambrose) -

Beth Shaaban (Advisor: Dr. Caterina Rosano) - completed 2018

Cristina Cadenas Sanchez (University of Granada; Advisor: Dr. Francisco Ortega) – completed 2018 Anne Kaer Gejl (University of Southern Denmark; Advisor: Dr. Lars Bo Anderson) – completed 2018

Other Graduate Mentoring

Andrea Weinstein – B² Training Grant Mentor Kristine Wilckens – B² Training Grant Mentor Lauren Oberlin - B² Training Grant Mentor Jamie Cohen - B² Training Grant Mentor

Post-Baccalaureate Mentoring

Lisheema Barr – Hot Metal Bridge Program, University of Pittsburgh (2010-2011) Indira Turney - Hot Metal Bridge Program, University of Pittsburgh (2011-2012) Travis Alvarez - Hot Metal Bridge Program, University of Pittsburgh (2011-2012) Colleen Vaughan – Hot Metal Bridge Program, University of Pittsburgh (2015-2016) Jermon Drake – Hot Metal Bridge Program, University of Pittsburgh (2018-2019)

Senior Thesis Committee

Christopher Stevens (Advisor: Dr. Mark Wheeler) - 2010 KayLoni Olson (Advisor: Dr. Dana Rofey) - 2010 Sara Troupe (Advisor: Dr. Dana Rofey) - 2011 Rachel Milgrom (Chair - Neuroscience Program) - 2012 Alexis Wnuk (Chair - Neuroscience Program) - 2012 Brighid Lynch (Chair- Neuroscience Program) - 2013 Mariegold Wollam (Chair - Psychology Program) - 2013 Rebecca Sax (Chair - Psychology Program) - 2014 Maria Alessi (Chair - Psychology Program) - 2015 Jonae Lloyd (Chair- Neuroscience Program) - 2015 Winnie Rao (Chair- Neuroscience Program) - 2015 Jordan Baird (Chair- Neuroscience Program) - 2015 Kaitlin Dlugosz (Advisor: Dr. Kathyrn Roecklein) - 2015 Sara Winter (Chair - Psychology Program) - 2015 Shelly Burke (Chair - Neuroscience Program) - 2016 Aasha Waiwood (Chair - Psychology Program) - 2017 Leighanne Ohlinger (Chair - Psychology Program) - 2018 Morgan Lehman (Chair - Neuroscience Program) - 2018

Undergraduate Mentoring

Research Training Seminars

fMRI training seminar - Multimodal neuroimaging training program	2014, 2015
fMRI data analysis seminar at Johns Hopkins U	2007 - 2009
Voxel-based morphometry seminar at Wayne State U.	2005
Voxel-based morphometry seminar at U. of Michigan	2004

Public Outreach Programs

Dorm Advisor – Lothrop Hall, University of Pittsburgh

Brain Awareness Week – Urbana-Champaign

2009 – 2010

2006

Visiting Fellows:

Sarah Valkenboroughs - University of Newcastle (2018)

Dr. Cristina Cadenas Sanchez - University of Granada, Spain (2018)

Dr. Irene Esteban-Cornejo - University of Granada, Spain (2018)

Radka Hlavackova - Charles University of Prague (2018)

Dr. Natali Valim Oliver Bento Torres - Institute of Science, Brasil (2017-2018)

Dr. Joao Bento Torres - Institute of Science, Brasil (2017-2018)

Dr. Ina Tarkka – University of Jyvaskyla, Finland (2017)

Dr. Maria Mataro - University of Barcelona (2015; 2017)

Feng-Tzu Chen - National Taiwan Sports University (2017)

Sarah Valkenboroughs - University of Newcastle (2015)

Dr. Xiaofeng Xie - Wuhan University (2015)

Dr. Belinda Brown - Edith Cowan University (2015)

Professional Memberships

Alzheimer's Association (ISTAART)	2011 - current
American Psychological Association (Member)	2009 - current
American Psychological Society	2009 - current
American College of Sports Medicine	2009 - 2011
Society for Psychophysiological Research	2007 - 2009
Organization for Human Brain Mapping	2005 – current
Cognitive Neuroscience Society	2002 - current
Society for Neuroscience	2000 - current

Clinical Experience

Neuropsychological Assessment Practicum	2001 - 2002
University of Illinois Urbana-Champaign	
Autistic Treatment Center, Milwaukee, WI	1998 - 1999
Internship at Oxford School for Autistic Children	1998

Professional Services

National and International Panels

Global Council on Brain Health (2016) - AARP

Physical Activity Guidelines Advisory Committee (2016-2018) – Federal appointment by Secretary of Health and Human Services.

Subcommittee: Brain Health (chair) Subcommittee: Aging (member)

Subcommittee: Leaders committee (member)

Editorship:

Guest editor: *Journal of Aging Research* - Special Edition: Physical Exercise and Brain Functions in Older Adults (2012)

Guest editor: *Journal of the International Neuropsychological Society*: Physical Activity and Brain Plasticity (2014-2015).

Editorial Board:

Kirk I. Erickson, Ph.D.

Aging Research (2010-2014)

Journal of the American Geriatric Society (2012-current)

Neuroimage (2015-current)

Journal of Cognitive Enhancement (2016-current)

Ad hoc referee (51 different journals):

Alzheimer's and Dementia • Annals of Neurology • Archives of General Psychiatry • Archives of Internal Medicine • Brain • Brain Research • British Journal of Sports Medicine • Cerebral Cortex • The Cleft Palate-Craniofacial Journal • Clinical Neurophysiology • Cognitive, Affective, and Behavioral Neuroscience • Comprehensive Physiology • Current Opinion in Behavioral Sciences • Developmental Neuroscience • Diabetes Care • Emotion • European Journal of Neuroscience • European Journal of Aging • Experimental Aging Research • Frontiers in Aging Neuroscience • Frontiers in Human Neuroscience • Human Brain Mapping • International Journal of Obesity • Journal of Aging and Physical Activity • Journal of the American Geriatric Society • Journal of Cognitive Neuroscience • Journal of Gerontology: Medical Sciences • Journal of the International Neuropsychological Society • Journal of Psychiatric Research • Journal of Psychophysiology • Journal of Neurology • Journal of Neuroscience • Journal of Sport Sciences • Medicine & Science in Sport and Exercise • Menopause • Molecular Psychiatry • Neurobiology of Aging • Neurobiology of Learning and Memory • Neurology • Neuroimage • Neuropsychologia • Neuropsychology • Neuroscience Letters • Neurotoxicology and Teratology • Proceedings of the National Academy of Sciences • Progress in Neurobiology • Psychonomic Bulletin & Review • Psychophysiology • Psychosomatic Medicine

Grant Reviewer Services:

Western Psychiatric - University of Pittsburgh

National Science Foundation

Austrian Science Fund

Indo-US Science and Technology Forum

University of Wisconsin-Milwaukee Research Growth Initiative

University of Pittsburgh Alzheimer's Disease Research Center

Alzheimer's Association

NIH study section - Risk, Prevention, and Health Behavior

NIH study section - Special section on prevention of Alzheimer's Disease

NIH study section – Social Psychology, Personality and Interpersonal Processes (Standing Member 2017-)

Kansas University Medical Center Clinical Research Pilot Grant Program

University of Pittsburgh Institute on Aging

Telux Stiftung Association

Committee Services:

Psychology Department Colloquium Committee, University of Pittsburgh	2009, 2016
Department of Psychology Executive Committee	2015 - 2016
University of Pittsburgh Senate subcommittee on Research	2015 - current
University of Pittsburgh Senate subcommittee on student affairs	2013 - 2015
University of Pittsburgh Faculty Assembly	2012 - 2015
Psychology Department Diversity Travel Award Committee	2012
Biological/Health Program Brown Bag Coordinator	2011, 2018
Magnetic Resonance Research Center Users Committee	2010 - 2014
Undergraduate Education Committee, University of Pittsburgh	2009 - 2013
Program Committee for Society for Psychophysiological Research	2008
Paul D. Doolen Scholarship Committee	2004

Grants

Current:

P01 HL040962 2018-2023

TDC: \$7,520,150

Role: Subproject 3 Lead Principal Investigator "Biobehavioral Studies of Cardiovascular Disease"

R01 AG060741 2018-2023

TDC: \$2,361,911

Role: Principal Investigator

"Rhythm Experience and Africana Culture Trial (REACT)"

R01 CA221882 2018-2023

TDC: \$1,710,692

Role: Co-Principal Investigator (co-PI: Conley, Bender)
"Epigenomics of Neurocognitive Function in Breast Cancer"

UPMC Enterprises 2017 – 2020

TDC: \$1,994,089

Role: Co-Investigator (PI: Ambrosio/Jakicic)

"A precision rehabilitation approach to counteract age-related cognitive declines"

R56 HL128317 2017 - 2018

TDC: \$497,484

Role: Co-investigator (PI: Rofey)

"Impact of cognitive function on weight management outcomes"

PSI2016-77475-R 2017 - 2019

Total costs: \$103,200 (Euros)

Role: Co-investigator (PI: Maria Mataro, PhD)

"Integrative omics study on the neurobiological effects of physical activity and cognitive stimulation"

R01 AG053952 2016 - 2021

Total costs: \$21,899,529 TDC: \$14,401,831

Role: Principal Investigator

"IGNITE: Investigating Gains in Neurocognition in an Intervention Trial of Exercise"

R01 CA196762 2016 - 2021

TDC: \$2,215,368

Role: Co-Principal Investigator (co-PI: Bender)

"Influence of exercise on neurocognitive function in breast cancer"

CIHR 366276 2016 - 2021

TDC: \$1,108,525

Role: Co-investigator (PI: Liu-Ambrose)

"One size does not fit all: Tailoring exercise prescription for brain health based on BDNF polymorphism"

1UF1AG051197-NIA 2016 - 2020

TDC: \$4,408,658

Role: Co-Investigator (PI: Becker)

"Connectomics of Brain Aging and Dementia"

Australian Research Council - DP160104162 2016 - 2019

TDC: \$401,000

Role: Co-Investigator (PI: Copland)

"Enhancing language learning in aging with exercise"

5P30 AG024827

TDC: \$1,026,227 Role: Co-Investigator

"Pittsburgh Older Americans Independence Center"

2004 - 2020

Completed:

NPSASA-14-321093 Alzheimer's Association

2014 - 2017

TDC: \$250,000

Role: Principal Investigator

"Influence of African Dance on Neurocognitive Function"

R01 DK095172 2012 – 2017

TDC: \$1,401,926

Role: Principal Investigator

"Influence of physical activity and weight loss on brain plasticity."

Pilot P30 MH90333 (PI: Reynolds)

2014 - 2016

TDC: \$100,000

Role: Co-Principal Investigator (co-PI: Aizenstein)

"A multi-level life-span characterization of adult depression and effects of medication and exercise"

R01 DK092237 2011 – 2015

TDC: \$2,445,572

Role: Co-Investigator (PI: Espeland)

"Action for health in diabetes brain magnetic resonance imaging ancillary study."

CLSA 2013 - 2014

TDC: \$24,620

Role: Co-Investigator (PI: Liu-Ambrose)

"Gaining insight to Brain-Behaviour Relationships: Developing a Neuroepidemiology Study Using the Canadian Longitudinal Study of Aging."

W81XWH-06-02 Department of Defense

2011 - 2013

TDC: \$31,718

Role: Co-Investigator (PI: Rofey)

"Identifying cognitive, functional, and structural brain-based differences in obese children with and without Type 2 Diabetes."

P30 AG024827 - Claude D. Pepper Center

2010 - 2012

TDC: \$70,000

Role: Co-Investigator (PI: van Swearingen)

"Benefits of two types of therapeutic exercise on gait and cognition."

The Office of Naval Research

2007 - 2012

TDC: \$6,750,000

Role: Co-Investigator (PI: Kramer)

"Capitalizing on research on animal and human brain plasticity to enhance warfighter training and performance."

P30 AG024827 - Claude D. Pepper Center

TDC: \$5,000

Role: Co-Investigator (PI: Nadkarni)

"Association between brain amyloid deposition and gait performance in cognitively normal older adults."

P30 AG024827 - Claude D. Pepper Center

2012

2012

TDC: \$20,000

Role: Co-Principal Investigator

"Neural adaptation: motor learning induced changes in functional brain networks."

Competitive Medical Research Fund of the UPMC Health System

2011 - 2012

TDC: \$25,000

Role: Principal Investigator

"Influence of physical activity on brain and cognition in mild cognitive impairment."

P30 AG024827 - Claude D. Pepper Center

2010 - 2011

TDC: \$35,000

Role: Principal Investigator

"The influence of a dancing intervention on neurocognitive function in postmenopausal healthy women."

P50-AG05133 - Alzheimer's Disease Research Center

2010 - 2011

TDC: \$25,000

Role: Principal Investigator

"The impact of physical activity on neurocognitive function in adults with cognitive impairment."

Center for Healthy Minds Seed Grant

2006 - 2007

TDC: \$10,000

Role: Principal Investigator

"Aerobic exercise and neurocognitive function in APOE epsilon 4 carriers."

Institute for the Study of Aging

2006 - 2008

TDC: \$50,000

Role: Co-Investigator (PI: Kramer)

"Influence of fitness on neurocognitive function of older adults."

Consultant:

R21 AG040310 (PI: Etnier)

2012 - 2014

"The effect of physical activity on cognition relative to ApoE and BDNF genotypes."

Publications (174 journal articles)

* graduate student; ^post-doc; **undergraduate student

- 1. Kramer, AF, Colcombe, SJ, **Erickson, KI**, Belopolsky, A, McAuley, E, Cohen, NJ, Webb, A. (2002). Effects of aerobic fitness training on human cortical function: A proposal. *Journal of Molecular Neuroscience*. 19(1-2): 227-31.
- 2. Milham, MP, **Erickson, KI**, Banich, MT, Kramer, AF, Webb, A, Wszalek, T, Cohen, NJ. (2002). Attentional control in the aging brain: Insights from an fMRI study of the Stroop task. *Brain & Cognition*. 49(3): 277-96.
- 3. Kramer AF, Colcombe, SJ, McAuley, E, **Erickson, KI**, Scalf, PE, Jerome, GJ, Marquez, DX, & Webb, AG. (2003). Enhancing brain and cognitive function of older adults through fitness training. *Journal of Molecular Neuroscience*. 20(3): 213-21.
- 4. Colcombe, SJ, **Erickson, KI**, Raz, N, Webb, AG, Cohen, NJ, McAuley, E, Kramer, AF. (2003). Aerobic fitness reduces brain tissue loss in aging humans. *Journal of Gerontology: Biological and Medical Sciences.* 58(2): 176-80.

- 5. Colcombe, SJ, Kramer, AF, McAuley, E, **Erickson, KI**, Scalf, PE. (2004). Neurocognitive aging and cardiovascular fitness: Recent findings and future directions. *Journal of Molecular Neuroscience*. 24(1): 9-14.
- 6. Colcombe, SJ, Kramer, AF, **Erickson, KI**, Scalf, PE, McAuley, E, Cohen, NJ, Webb, A, Jerome, GJ, Marquez, DX, Elavsky, S. (2004). Cortical recruitment and aging: The influence of cardiovascular fitness on executive brain function as assessed by event-related fMRI. *Proceedings of the National Academy of Sciences USA*. 101(9): 3316-21.
- 7. **Erickson, KI**, Milham, MP, Colcombe, SJ, Kramer, AF, Banich, MT, Webb, A, Cohen, NJ. (2004). Behavioral conflict, anterior cingulate cortex, and experiment duration: Implications of diverging data. *Human Brain Mapping*. 21(2): 96-105.
- 8. Bherer, L, Kramer, AF, Peterson, M, Colcombe, SJ, **Erickson, KI**, Becic, E. (2005). Training effects on dual-task performance: are there age-related differences in plasticity of attentional control? *Psychology and Aging*. 20(4): 695-709.
- 9. Kramer, AF, Colcombe, SJ, McAuley, E, Scalf, PE, **Erickson, KI**. (2005). Fitness, Aging, and Neurocognitive function. *Neurobiology of Aging*. 26 Suppl 1: 124-7.
- Colcombe, SJ, Kramer, AF, Erickson, KI, Scalf, PE. (2005). The implications of cortical recruitment and brain morphology for individual differences in cognitive performance in aging humans. *Psychology and Aging*. 20(3): 363-75.
- 11. **Erickson, KI**, Colcombe, SJ, Raz, N, Korol, DL, Scalf, PE, Webb, A, Cohen, NJ, McAuley, E, Kramer, AF. (2005). Selective sparing of brain tissue in post-menopausal women receiving hormone replacement therapy. *Neurobiology of Aging*. 26(8): 1205-13.
- 12. **Erickson, KI**, Colcombe, SJ, Wadhwa, R, Bherer, L, Peterson, M, Scalf, PE, Kramer, AF. (2005). Neural correlates of dual-task performance after minimizing task preparation. *NeuroImage*. 28(4): 967-79.
- 13. **Erickson, KI**, Ho, R, Colcombe, SJ, Kramer, AF. (2005). A structural equation modeling analysis of attentional control: An event-related fMRI study. *Cognitive Brain Research*. 22: 349-357.
- 14. Nielson, KA, Yee, D, **Erickson, KI**. (2005). Memory enhancement by a semantically unrelated emotional arousal source induced after learning. *Neurobiology of Learning and Memory*. 84(1): 49-56.
- 15. Bherer, L, Kramer, AF, Peterson, M, Colcombe, SJ, **Erickson**, KI, Becic, E. (2006). Testing the limits of cognitive plasticity in older adults: Application to attentional control. *Acta Psychologica.* 123(3): 261-78.
- 16. Colcombe, SJ, **Erickson, KI**, Scalf, PE, Kim, JS, Wadhwa, R, McAuley, E, Kramer, AF. (2006). Aerobic exercise training increases brain volume in aging humans: evidence from a randomized clinical trial. *Journal of Gerontology: Biological and Medical Sciences*. 61(11): 1166-70.
- 17. Kramer, AF, **Erickson, KI**, Colcombe, SJ. (2006). Exercise, cognition and the aging brain. *Journal of Applied Physiology*. 101 (4): 1237-42.
- 18. **Erickson, KI,** Colcombe, SJ, Elavsky, S, McAuley, E, Korol, DL, Scalf, PE, Kramer, AF. (2007). Interactive effects of fitness and hormone treatment on brain health in postmenopausal women. *Neurobiology of Aging*. 28(2): 179-85.
- 19. **Erickson, KI**, Colcombe, SJ, Wadhwa, R, Bherer, L, Peterson, M, Scalf, PE, Kim, JS, Alvarado, M, Kramer, AF. (2007). Training-induced functional activation changes in dual-task processing: An fMRI study. *Cerebral Cortex*. 17(1): 192-204.
- 20. **Erickson, KI**, Colcombe, SJ, Wadhwa, R, Bherer, L, Peterson, M, Scalf, PE, Kim, JS, Alvarado, M, Kramer, AF. (2007). Training-induced plasticity in older adults: effects of training on hemispheric asymmetry. *Neurobiology of Aging*. 28(2): 272-83.
- 21. Kramer, AF, **Erickson, KI**. (2007). Capitalizing on cortical plasticity: influence of physical activity on cognition and brain function. *Trends in Cognitive Sciences.* 11(8): 342-8.
- 22. Kramer, AF, **Erickson, KI**. (2007). Physical activity effects on cognition, well-being and brain: human interventions. *Alzheimer's and Dementia*. 3(2): S45-S51.
- 23. Prakash, RS, Snook, EM, **Erickson, KI**, Colcombe, SJ, Webb, ML, Motl, RW, Kramer, AF. (2007). Cardiovascular fitness: a predictor of cortical plasticity in multiple sclerosis. *NeuroImage*. 34(3): 1238-44.
- 24. Scalf, PE, Colcombe, SJ, McCarley, JS, **Erickson, KI**, Alvarado, M, Kim, JS, Wadhwa, R, Kramer, AF. (2007). The neural correlates of an expanded functional field of view. *Journals of Gerontology Series B: Psychological Sciences and Social Sciences.* 62(1): 32-44.

- Kirk I. Erickson, Ph.D.
- 25. Bherer, L, Kramer, AF, Peterson, M, Colcombe, SJ, **Erickson, KI**, Becic, E. (2008). Transfer effects in task-set cost and dual-task cost after dual-task training in older and younger adults: Further evidence for cognitive plasticity in attentional control in late adulthood. *Experimental Aging Research*. 34(3): 188-219.
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- 174. Galloway, M, Marsden, DL, Callister, R, **Erickson, KI**, Nilsson, M, English, C. (in press). What is the dose-response relationship between exercise and cardiorespiratory fitness after stroke? A systematic review. *Physical Therapy*.

Submitted Manuscripts

- 1. Bento-Torres, J, Bento-Torres, NVO, Stillman, CM, Grove, GA, Huang, H, Uyar, F, Watt, JC, Wollam, ME, **Erickson, KI**. Associations between cardiorespiratory fitness, physical activity, intraindividual variability and cingulate cortex in younger adults.
- 2. Boyle, C, Raji, CA, **Erickson, KI**, Lopez, OL, Becker, JT, Gach, HM, Longstreth, WT, Popov, M, Kuller, L, Carmichael, OT, Thompson, PM. Estrogen and brain structure in a multi-center cohort of post-menopausal women.
- 3. Chaddock-Heyman, L, **Erickson, KI**, Kienzler, C, Drollette, ES, Raine, LB, Kao, SC, Bensken, J, Weisshappel, R, Castelli, DM, Hillman, CH, Kramer, AF. Physical activity increases white matter microstructure in children.
- 4. Chen, FT, **Erickson, KI**, Huang, H, Chang, YK. The association between exercise type and white matter integrity in older adults: a diffusion tensor imaging study.
- 5. DiPietro, L, Campbell, WW, Buchner, DM, **Erickson, KI**, Powell, KE, Bloodgood, B, Hughes, T, Day, KR, Piercy, KL, Vaux-Bjerke, A, Olsen, R. The importance of physical activity to physical function in aging: a systematic review.
- 6. Donofry, SD, Jakicic, JM, Rogers, RJ, Watt, JC, Roecklein, KA, **Erickson, KI**. Functional network architecture in obesity: comparison of task-evoked and resting state connectivity.
- 7. Dostalova, R, Stillman, C, **Erickson, KI**, Slepicka, P, Mudrak, J. The relationship between physical activity, perceived health, and cognitive function in older adults.
- 8. **Erickson, KI**, Hillman, C, Stillman, CM, Ballard, RM, Bloodgood, B, Conroy, DE, Macko, R, Marquez, DX, Petruzzello, SJ, Powell, KE. Physical activity and cognition: a review of the 2018 Physical Activity Guidelines.
- 9. Esteban-Cornejo, I, Hillman, CH, Kramer, AF, **Erickson, KI**, Ortega, F. Fitness, cortical thickness and surface area in overweight/obese children from the ActiveBrains Project: the mediating role of body composition and relationship with intelligence.
- 10. Kundu, S, **Erickson, KI**, McAuley, E, Kramer, AF, Rhode, G. Aerobic fitness is associated with brain tissue distribution in older adults.
- 11. Kuo, JH, Parisi, JM, **Erickson, KI**, Nahin, R, Rapp, SR, Snitz, B, Williamson, J, Fitzpatrick, A, Carlson, MC. Late-life lifestyle activity as a buffer for cognitive decline.
- 12. Lehman, DE, Leckie, RL, Gianaros, PJ, **Erickson, KI**, Sereika, SM, Kuan, DCH, Manuck, SB, Ryan, CM, Yao, JK, Muldoon, MF. The effects of omega-3 fatty acids on neuropsychological functioning and brain morphology in mid-life adults: a randomized clinical trial.
- 13. McSween, MP, Coombes, JS, MacKay, CP, Rodriguez, AD, **Erickson, KI**, Copland, DA, McMahon, KL. The immediate effects of acute aerobic exercise on cognition in healthy older adults: a systematic review.
- 14. Miller, MA, Germain, A, Van Cott, AC, Donofry, SD, **Erickson, KI**, Roecklein, KA. Circadian disruption as a mechanism in long-term mood and cognitive impairments following TBI.
- 15. Powell, KE, King, AC, Buchner, D, Campbell, W, DiPietro, L, **Erickson, KI**, Hillman, CH, Jakicic, JM, Janz, KF, Katzmarzyk, PT, Kraus, WE, Macko, RF, Marquez, DX, McTiernan, A, Pate, RR, Pescatello, LS, Whitt-Glover, MC. The scientific foundation for the 2018 physical activity guidelines for Americans.
- 16. Rodriguez Ayllon, M, Cadenas-Sanchez, C, Estevez-Lopez, F, Ernesto Munoz, N, Mora Gonzalez, J, Migueles, JH, Molina-Garcia, P, Henriksson, H, Mena-Molina, A, Martinez-Vizcaino, V, Catena, A, Lof, M, **Erickson, KI**,

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 - Lubans, D, Ortega, FB, Esteban-Cornejo, I. Role of physical activity and sedentary behavior in the mental health of preschoolers, children and adolescents: a systematic review and meta-analysis.
- 17. Shaaban, CE, Aizenstein, HJ, Jorgensen, DR, MacCloud, RL, Meckes, NA, **Erickson, KI**, Glynn, N, Mettenburg, J, Guralnik, J, Newman, AB, Ibrahim, TS, Laurienti, PJ, Vallejo, AN, Pahor, M, Rosano, C. Physical activity and cerebral small vessel integrity in older adults.
- 18. Valkenborghs, SR, **Erickson, KI**, Nilsson, M, van Vliet, P, Callister, R. Feasibility of aerobic interval training in non-ambulant persons after stroke.
- 19. Valkenborghs, SR, van Vliet, P, Nilsson, M, Zalewska, K, Visser, M, **Erickson, KI**, Callister, R. Aerobic exercise and consecutive task-specific training (AExaCTT) for upper limb recovery after stroke: a randomized controlled pilot study.
- 20. Verstynen TD, *Leckie RL, *Weinstein AM, Jakicic JM, Rofey DL, **Erickson KI**. Weight-related variation in cortico-basal ganglia connectivity predicts inefficient executive control processing.
- 21. Vo, LTK, Wang, MY, Kramer, AF, Lee, H, Boot, WR, Voss, MW, **Erickson, KI**, Walther, DB. Nonheme iron captured by the time-averaged T2* signal predicts learning abilities.

Editorials:

- 1. **Erickson, KI**. (2013). Therapeutic effects of exercise on cognitive function. *Journal of the American Geriatric Society*, 61: 2038-9.
- 2. Bherer, L, **Erickson, KI**, Liu-Ambrose, T. (2013). Physical Exercise and Brain Functions in Older Adults. *Journal of Aging Research*, 197326: 1-2.
- 3. Hall, PA, **Erickson**, **KI**, Gianaros, PJ (2017). The neurobiology of health communication. *Psychosomatic Medicine*, 79(4):37-38.

Book Chapters

- 1. Kramer, AF, **Erickson, KI**, McAuley, E. (2008). Effects of physical activity on cognition and brain. Stuss, DT, Winocur, G, Robertson, IH. (Eds), <u>Cognitive neurorehabilitation: Evidence and applications</u> (2nd Edition). United Kingdom: Cambridge University Press.
- 2. **Erickson, KI**, Korol, DL. (2009). The effects of hormone replacement therapy on the brains of postmenopausal women: A review of human neuroimaging studies. Chodzko-Zajko, W, Kramer, AF., Poon, L. (Eds), <u>Enhancing Cognitive Functioning and Brain Plasticity</u> (1st Edition).
- 3. **Erickson, KI**. (2011). Augmenting brain and cognition by aerobic exercise. Foundations of Augmented Cognition. Directing the Future of Adaptive Systems, Volume 6780, p. 30-38.
- 4. **Erickson, KI**. (2012). Physical Activity and Brain Functions. Blair, S, Haskell, B, Bouchard, C, (Eds). <u>Physical Activity and Health (2nd Edition)</u>. Human Kinetics.
- 5. **Erickson, KI**, *Miller, DL, *Weinstein, AM. (2012). Physical activity training on brain and cognition. Wahl, HW, Tesch-Romer, C, Ziegelmann, J. (Eds). Angewandte Gerontologie: Interventionen fur ein gutes Altern in 100 Schlusselbegriffen. Kohlhammer.
- 6. **Erickson, KI**, Banducci, SE, Akl, SL. (2012). Effects of exercise on cognitive processing studied by MRI in elderly people. Boecker, H, Hillman, C, Scheef, L, Struder, HK. <u>Functional Neuroimaging in Exercise and Sport Sciences</u>. Springer, NY.
- 7. *Miller, DL, *Weinstein, AM, **Erickson, KI**. (2012). Structural plasticity induced by physical exercise. Boecker, H, Hillman, C, Scheef, L, Struder, HK. Functional Neuroimaging in Exercise and Sport Sciences. Springer, NY.
- 8. Erickson, KI. (2013). Exercise on the Brain. Pashler, Harold (Ed), Encyclopedia of the Mind. SAGE publications.
- 9. **Erickson, KI.** (in press). Aging, Training, and Brain Plasticity. <u>Proceedings from the Marcilius-Kolleg Summer School Program.</u>
- 10. Hillman, CH, **Erickson, KI.** (2012). Cognition, Exercise. Mooren, F & Skinner, J (Eds). <u>Encyclopedia of Exercise Medicine in Health and Disease</u>. Springer.
- 11. Voss, MW, **Erickson, KI**. (2013). Exercise effects on Brain and Cognition in Older Adults. Ekkakakis (Ed). Routledge Handbook of Physical Activity and Mental Health, Routledge.
- 12. **Erickson, KI** & Liu-Ambrose, T (in press). Exercise and Health on Brain Function. Schaie & Willis (Eds). Handbook for the Psychology of Aging.
- 13. **Erickson, KI** & Oberlin, LE. (2016). Exercise and Brain Functions. Park, Cabeza, Nyberg (Eds.) <u>Handbook for</u> the Cognitive Neuroscience of Aging.
- 14. Peven, JC, Stillman, CM, **Erickson, KI** (in press). Influence of Physical Exercise on Cognitive Aging. Heliman & Nadeau (Eds). <u>Cognitive Changes and the Aging Brain.</u>

Invited Lectures

[Keynote] Fit body, fit brain: exercise is the key. American Congress of Rehabilitation Medicine, (Presented: October, 2018), Dallas, TX.

[Keynote] Exercise and Brain Health. Health Across the Lifespan (Presented: September, 2018), Magdeburg, Germany.

Healthy Brain Aging: Effects of Exercise. Promoting Healthy Brain Aging and Preventing Dementia: Research and Translation (June, 2018), Banff, CA.

Physical Activity Guidelines Report: Brain Health. American College of Sports Medicine (May, 2018), Minneapolis, MN.

Exercise effects on brain health in mid-life and older adults. American Psychological Society (May, 2018), San Francisco, CA.

NIH Science of Behavior Change. American Psychological Society (May, 2018), San Francisco, CA.

Exercise and Cognition. Presented at UPMC International Workshop (May, 2018), Chianciano Terme, Italy.

[Keynote] Aging, Exercise, and Brain Plasticity. Presented at Learning and Plasticity (April, 2018), Akaslampolo, Finland.

[Keynote] Effects of physical exercise and fitness on brain in old age: the state of the art and future projects. (March, 2018), University of Granada, Spain.

Brain plasticity throughout the lifespan and approaches for initiating health behaviors. Presented at Science Strategy Meeting for the Royal Society. (February, 2018), University of West Indies, Kingston, Jamaica.

How to maintain your aging brain. Presented at BRITE program, (January 2018), University of Pittsburgh, PA.

Therapy: targets and approaches to improve cognitive and sensory outcomes. Presented at NIH workshop on Sensory Impairment and Cognitive Decline. (October, 2017), Bethesda, MD.

Effects of exercise on brain and cognition in healthy aging. Presented at European Congress on Neuropsychology and practice (September, 2017), Paris, France.

[Keynote] Aging, Exercise, and Brain Plasticity. Presented, American College of Sports Medicine (June, 2017), Denver, CO.

Aging, Exercise, and Brain Plasticity. Presented, CIHR Summer Program in Aging (May, 2017), Montreal, Canada.

Exercise and brain plasticity. Presented, Reversibility Network Meeting (April, 2017), New York, NY.

Exercise and brain plasticity. Presented, Physical Exercise and Brain Health Symposium, University of California, Irvine (March, 2017), Irvine, CA.

Exercise and brain function. Brain, Behavior, and Cancer series. Presented, University of Pittsburgh (January 2017), Pittsburgh, PA.

Run for your life: exercise effects on brain and cognition. Presented, Western Psychiatry, University of Pittsburgh (January 2017), Pittsburgh, PA.

Aging, exercise, and brain plasticity. Society for Neuroscience (November, 2016), San Diego, CA.

[Keynote] - Aging, exercise, and brain plasticity. Interdisciplinary work in social psychiatry (November, 2016), Heidelberg, Germany.

Effects of exercise on brain outcomes. National Taiwan Sports University (August 2016), Taiwan, China.

Aging, Exercise, and Brain Plasticity. World Congress on Active Ageing (June 2016), Melbourne, Australia.

Fit body, fit brain: effects of exercise training on brain health. Umea Center for Functional Brain Imaging (June 2016), Umea, Sweden.

Fit body, fit brain: effects of exercise on the aging brain and biomarkers of AD. Fudacio ACE. University of Barcelona (May 2016), Barcelona, Spain.

Using technology to enhance exercise adherence in middle-aged adults. University of British Columbia (May 2016), Vancouver, BC.

Fit body, fit brain: effects of exercise on brain plasticity. New York Association for Neuropsychologists (April 2016), New York, NY.

[Keynote]. Fit body, fit brain: effects of exercise on brain health. Active Living for Healthy Brains: a community engagement event (April 2016), Calgary, CA.

Exercise and brain plasticity. Presented at the American Association for Geriatric Psychiatry (March 2016), Washington DC.

New Research on Walking Effects on the Brain. Walk Works program, Indiana PA (March, 2016).

Fit body, fit brain. Presented at the University of Pittsburgh Winter Academy. West Palm Beach and Naples, Florida (February, 2016).

Exercise and Brain Plasticity. Presented at Neuroscience Colloquium, Syracuse University (January 2016). Syracuse, NY.

Predicting physical activity adherence from brain imaging data. Presented at the Behavioral and Psychological Phenotyping NIH Workshop (December 2015). Bethesda, MD.

Exercise and Brain Plasticity. Presented at the Network on Reversability, Rockefeller University (October, 2015). New York City, NY.

Exercise and hippocampal function. Presented at the Swiss Memory Workshop (August, 2015), Spiez, Switzerland.

Exercise and Brain Health. Presented at the 1st Congreso Internacional de Educacion Fisica y Deporte Escolar (August, 2015), Lima, Peru.

Exercise and brain plasticity. Presented at the University of Michigan (May, 2015), Ann Arbor, MI.

Effects of exercise on hippocampal volume and function. Presented at the Physiology Society (April, 2015). Edinburgh, UK.

Exercise and Human Brain Plasticity. Presented at the Neuroplasticity and Brain Repair Retreat (March, 2015). Los Angeles, CA.

Exercise and Brain Health. Presented at Annual Society for Experimental Neurotherapeutics (February, 2015). Washington D.C.

Moderators and Mediators of Exercise-induced brain plasticity. Presented at International Neuropsychological Society (February, 2015). Denver, CO.

Exercise and Brain Plasticity. Chronic Disorders Seminar (January, 2015), Pittsburgh, PA.

Preliminary results from the Look AHEAD Brain ancillary study. Presented at Look AHEAD Executive Steering Committee (November, 2014). Bethesda, MD.

Healthy Brain Aging. Presented at Wilkins Community Center (November, 2014). Pittsburgh, PA.

[Keynote]. Aging, Exercise, and Brain Plasticity. Presented at Hong Kong Hospital Authority (October, 2014). Hong Kong.

[Keynote]. Exercise and brain plasticity. Presented at International Society for Neuroimaging in Psychiatry (September, 2014). Halifax, Nova Scotia, CA.

[Keynote]. Exercise and brain functions. Presented at Stroke Rehabilitation Research Workshop (July, 2014), Hamilton Island, Australia.

Aging, Exercise and Brain Plasticity. Presented at Summer Clinical Symposium, (July, 2014), Chicago, IL.

Aging and Exercise. Presented at Homewood Senior Center (June, 2014), Pittsburgh, PA.

Physical activity versus sedentary time. Presented at Institute of Medicine. Committee on the Public Health Dimensions of Cognitive Aging. Arnold and Mabel Beckman Center of the National Academies, (June, 2014), Irvine CA.

Moderators and mediators of exercise-related brain plasticity. Presented at PERFORM center – Concordia University (May, 2014), Montreal, CA.

Aging, Exercise and Cognition – a brief overview. Presented at Research Day – Aging Institute (April, 2014), Pittsburgh, PA.

Aging, Exercise and Cognition – an Overview. Presented at Cognitive Aging Conference – Overview talk (April, 2014), Atlanta, GA.

Exercise, obesity, and brain function throughout the lifespan. Presented at Illinois Transdisciplinary Obesity Prevention Program (February, 2014), Champaign, IL.

Aging, Exercise and Brain Plasticity. Presented at Association for the Advancement of Science (February, 2014), Chicago, IL.

Update on exercise and brain health. Communication Sciences Roundtable Talk (January, 2014), Pittsburgh, PA.

Exercise and Brain Health. Presented at International College of Geriatric Psychoneuropharmacology (October, 2013), Pittsburgh, PA.

Aging, Exercise, and Brain Plasticity. Presented at Neuroscience Colloquium. Rosalind Franklin Medical School (September, 2013), Chicago, IL.

Lifestyle variables and brain health. Presented at Healthy Brain Workshop (September, 2013), Pittsburgh, PA.

Exercise and Brain Plasticity. Presented at National Space and Biomedical Research Institute (August, 2013), Houston, TX.

Exercise and Brain Health. Presented at Nutrition and Brain Conference (July, 2013), Washington DC.

Aging, Exercise, and Brain Plasticity. Presented at Pittsburgh Parkinson's Disease Support Group, (June, 2013), Pittsburgh, PA.

Effects of exercise on brain structure and function. Presented at Academy of Behavioral Medicine Research – Acceptance presentation for the Neal Miller Junior Investigator Prize. (June, 2013), Monterrey, CA.

Exercise and dementia. Presented at American College of Sports Medicine (May, 2013), Indianapolis, IN.

Exercise, Brain Health, and Alzheimer's Disease. Presented at American College of Sports Medicine (May, 2013), Indianapolis, IN.

Exercise and brain plasticity. Presented at University of Medicine and Dentistry at New Jersey (March, 2013), Newark, NJ.

Exercise and brain health in late life [Keynote Address]. Presented at Motor and Cognitive Performance Across the Lifespan (February, 2013), Stuttgart, Germany.

Exercise and brain health in late life. Presented at Department of Psychology Colloquium Series – University of Texas, Dallas (February, 2013), Dallas, TX.

Exercise and Brain Plasticity in Late Adulthood. Presented at University of Pennsylvania Institute Visiting Scholars Series (January, 2013), Philadephia, PA.

Aging, Exercise, and Brain Plasticity. Presented at Rutgers University Psychology Department Colloquium Series (October, 2012), Newark, NJ.

Aging, Exercise, and Brain Plasticity. Presented at Marquette University Neuroscience Colloquium Series (October, 2012), Milwaukee, WI.

Exercise and brain health in late life. To be presented at National Institute of Aging (October, 2012), Bethesda, MD.

Exercise, Aging, and Brain Plasticity. Presented at Multimodal Neuroimaging Training Program (June, 2012), Pittsburgh, PA.

Exercise, training, and Alzheimer's Disease. Presented at NIH Alzheimer's Disease Summit (May 2012), Bethesda, MD.

Exercise and Brain Plasticity in Humans. Presented at Brain Plasticity: Itself a plastic concept? (May, 2012), New York City, NY.

Physical activity, Cognition, and Brain-derived Neurotrophic Factor. Presented at Seizing the Opportunity: Planning and Developing Future Directions in Aging Research Using the Canadian Longitudinal Study on Aging (April, 2012), Vancouver. Canada.

Exercise and brain plasticity in late life. Presented at Seizing the Opportunity: Planning and Developing Future Directions in Aging Research Using the Canadian Longitudinal Study on Aging (April, 2012), Vancouver, Canada.

Physical activity and memory functions. Presented at Oxford Athletic Club for Alzheimer's Disease Research Center (April, 2012), Wexford, PA.

Physical activity and brain function in late life. Presented at Pittsburgh Alzheimer's Disease Research Center Review Conference (April, 2012), New Orleans, LA.

Exercise effects on brain health in late adulthood. Presented at American Society for Aging (March, 2012), Washington D.C.

Effects of exercise on brain plasticity. Presented at 5th NBCNS Research Symposium (March, 2012), Stockholm, Sweden.

Obesity and physical activity on brain health. Presented at Department of Nutritional Sciences (February, 2012), Champaign-Urbana, IL.

The Emerging Field of Health Neuroscience. Presented at Pittsburgh Undergraduate Neuroscience Club (February, 2012), Pittsburgh, PA.

The Emerging Field of Health Neuroscience. Presented at Pittsburgh Panther Psychology Club (January, 2012), Pittsburgh, PA.

Physical activity effects on brain health in late life. Presented at the Pittsburgh Alzheimer's Disease Research Center (November, 2011), Pittsburgh, PA.

Aging, Exercise, and Brain Health. Presented at Max Planck Institute (November, 2011), Berlin, Germany.

Physical activity effects on brain health. Presented at Center for the Neural Basis of Cognition (October, 2011), Seven Springs, PA.

The potential preventive benefits of exercise on Alzheimer's Disease. Presented at Western Pennsylvania Alzheimer's Association (October, 2011), Mars, PA.

Physical activity and brain health. Presented at Satellite symposium on Cognitive Neuroscience of Aging at International Conference on Cognitive Neuroscience (September, 2011), Palma, Spain.

The effects of physical activity on brain health in late life. Presented at Tannenbaum brain health symposium (September, 2011), Toronto, Canada.

From video games to sports: the influence of leisure activities on brain health. Presented at the American Museum of Natural History (September, 2011), New York, NY.

Exercise training on brain and cognition. Presented at Center for Advanced Study of Language (August, 2011), College Park, MD.

Effects of Exercise on Brain and Cognitive Function. Presented at 13th Annual Harvard Postgraduate Nutrition Symposium, (July, 2011), Boston, MA.

Aging and exercise: New Directions. Presented at Claude D. Pepper Center for Older Americans, (April, 2011), Pittsburgh, PA.

Aging, Exercise, and Brain Health. Presented at Mood, Brain, and Biology working group, (March, 2011), Pittsburgh, PA.

Aging, Exercise, and Brain Health. Presented at Pittsburgh VA, (February, 2011), Pittsburgh, PA.

Physical Activity as a means to enhance cognitive and brain health. Presented at International Neuropsychological Society (February, 2011), Boston, MA.

Aging, Exercise, and Brain Health. Presented at Institute on Aging (January, 2011), Pittsburgh, PA.

Aging, Exercise, and Brain Health. Presented at University of Heidelberg (January, 2011), Heidelberg, Germany.

Exercise and Brain Plasticity in Late Adulthood. Presented for the Graduate School of Public Health at University of Pittsburgh (November, 2010).

Aging, Exercise, and Brain Plasticity. Presented for the Department of Kinesiology at Penn State University (September, 2010).

Aging, Exercise, and Brain Plasticity. Presented for the Claude D. Pepper Center for Older Americans, University of Pittsburgh (September, 2010).

Aging, Exercise, and Brain Plasticity. Presented at Pittsburgh Mind Body Center (January, 2010), Pittsburgh, PA.

Aging, training, and neuroplasticity. Presented at Aging & Training Summer School Program, University of Heidelberg, Germany (September, 2009), Heidelberg, Germany.

Aerobic exercise: A method for preventing and reversing age-related cognitive and neural decline. Presented (April, 2008), Stockholm, Sweden.

Select Conference Symposia

(* student/post-doc presentation; † Chaired symposium)

Erickson, KI. Modifiers of the effects of exercise on the brain. Presented at the International Neuropsychological Society conference (February, 2015), Denver, CO.

* Weinstein, AM, Whitmoyer, P, Saxton, J, Morrow, L, Snitz, B, **Erickson, KI**. The relationship between physical activity and neurocognitive function in adults with cognitive impairment. Presented at Alzheimer's Association International Conference (July, 2012), Vancouver, Canada.

Erickson, KI, Weinstein, AM, Verstynen, TD, Voss, MW, Prakash, RS, Woods, J, McAuley, E, Kramer, AF. The influence of an aerobic exercise intervention on brain volume in late adulthood. Presented at Alzheimer's Association International Conference (July, 2012), Vancouver, Canada.

- * Weinstein, AM, Verstynen, TD, Prakash, RS, Voss, MW, Chaddock, L, Szabo, A, Kramer, AF, **Erickson, KI**. Gray matter volume, cardiorespiratory fitness, and cognitive function: a whole brain, voxel-based mediation analysis. Presented at Society for Neuroscience (November, 2012), New Orleans, LA.
- * Verstynen, TD, Leckie, RL, Weinstein, AM, Jakicic, JM, Rofey, DL, **Erickson, KI**. Altered cortico-basal ganglia connectivity with obesity predicts inefficient executive control processing. Presented at Society for Neuroscience (November, 2012), New Orleans, LA.

Basak, C, Kim, J, Voss, MW, Prakash RS, **Erickson, KI**, Szabo, A, McAuley, E, Kramer, AF. Determining a causal relationship between fitness and cognition in late adulthood. Presented at Cognitive Aging Conference (April, 2012), Atlanta, GA.

† Erickson, KI. Effects of physical activity training on cognitive and brain function. Presented at International Society for Neuroimaging in Psychiatry (September, 2011), Heidelberg, Germany.

Erickson, KI. Aging, Exercise, and Brain Health. Presented at International Conference on Augmented Cognition (July, 2011), Orlando, FL.

Erickson, KI. Aging, exercise, and brain health. Presented at International Neuropsychological Society (February, 2011). Boston, MA.

* Weinstein, AM, Sutton, BP, Prakash, RS, Voss, MW, Chaddock, L, Szabo, A, Mailey, E, White, SM, Wojcicki, TR, McAuley, E, Kramer, AF, **Erickson, KI**. The effect of aerobic fitness on n-acetylaspartate and memory in neurologically healthy older adults. Presented at International Neuropsychological Society (February, 2011). Boston, MA.

Raji, C, **Erickson, KI**, Lopez, O, Becker, JT, Rosano, C, Newman, A, Kuller, LH. Effect of walking on gray matter volume in Alzheimer's Disease. Presented at the Radiological Society of North America (November, 2010), Chicago, IL.

Erickson, KI. Aging, Exercise, and Brain Function. Presented at Winter Conference on Brain Research (January, 2010), Breckenridge, CO.

Erickson, KI. Aging, Exercise, and neuroplasticity. Presented at Aging and Speech Communication Research Conference (October, 2009), Bloomington, IN.

Erickson, KI. Effect of aerobic exercise on hippocampal volume and function. Presented at the American College of Sports Medicine (May, 2009), Seattle, WA.

Erickson, KI. Aerobic Exercise: a method for preserving and enhancing cognitive and brain function in old age. Presented at Winter Conference on the Neurobiology of Learning and Memory (January, 2009), Park City, UT.

Erickson, KI, Kramer, AF. Aging and training-induced plasticity. Presented at the International Congress of Psychology (July, 2008), Berlin, Germany.

Erickson, KI. The relationship between brain structure and brain function in older adults: The influence of lifestyle factors and genetics. Presented at Society for Psychophysiological Research (October, 2007), Savannah, GA.

Erickson, KI, Kramer, AF. Aging and training-induced plasticity. Presented at Aging and Speech Communication Research Conference (October, 2007), Bloomington, IN.

Kramer, AF, **Erickson, KI**, Boot, W, Becic, E. Aging and Attention. Presented at Aging and Speech Communication Research Conference (October, 2007), Bloomington, IN.

Erickson, KI, Malkowski, E, Voss, MW, Colcombe, SJ, Kramer, AF. Physical fitness alters the locus of activity in the right prefrontal cortex of older adults during the encoding of non-famous faces. Presented at Cognitive Aging Conference (July, 2007), Adelaide, South Australia.

Basak, C, Voss, MW, Boot, W, **Erickson, KI**, Kramer, AF. Can older adults benefit from videogame training? Relationship among cognition, game performance and brain structure. Presented at the Cognitive Aging Conference (July, 2007), Adelaide, South Australia.

Prakash, RS, **Erickson, KI**, Snook, EM, Colcombe, SJ, Motl, RW, Kramer, AF. Altered patterns of brain activation in Multiple Sclerosis during response inhibition: An fMRI investigation. Presented at International Neuropsychological Society (February, 2007), Portland, OR.

Kramer, AF, Colcombe, SJ, **Erickson, KI**, Scalf, PE. Fitness training and the brain: From molecules to minds. Presented at Cognitive Aging Conference (April, 2006), Atlanta, GA.

Erickson, KI, Kramer, AF. Aging & Fitness: Implications for cognitive and cortical plasticity? Presented at Winter Conference on Brain Research (January, 2005), Breckenridge, CO.

Behrer, L, Kramer, AF, Colcombe, SJ, **Erickson, KI**, Peterson, M, McCarley, J, Becic, E. Cognitive plasticity and aging: The effect of laboratory-based dual-task training on attentional time-sharing. Presented at Cognitive Aging Conference (April, 2004), Atlanta, GA.

Nielson, KA, Yee, D, **Erickson, KI**, Bryant, T. Enhancement of delayed memory retrieval by arousal after learning: A possible intervention approach. Presented at Society for Applied Research in Memory and Cognition (July, 2003), Aberdeen, Scotland, UK.

Kramer, AF, Colcombe, SJ, **Erickson, KI**, Scalf, PE. Enhancing cognitive vitality in older adults. Presented at Chicagoland Symposium on Functional MRI of the Brain in Health and Disease (2003), Chicago, IL.

Kramer, AF, Colcombe, SJ, **Erickson, KI**, Scalf, PE, McAuley, E. Cognitive and brain plasticity of older adults. Presented at Society for Psychophysiological Research (October, 2003), Chicago, IL.

Colcombe, SJ, **Erickson, KI**, Kramer, AF. Neurocognitive decline in older adults: Descriptions and developments. Presented at Life Long Learning Conference (December, 2002), Yokohama, Japan.

Colcombe SJ, Kramer AF, **Erickson, KI**, Belopolsky, A, Webb A, Cohen N, McAuley E, Wszalek T. An fMRI examination of models of age-related decline in cognitive functioning. Presented at Cognitive Aging Conference (2002), Atlanta, GA.

Selected Posters

(* student/post-doc presentation; † Chaired symposium)

Raji, CA, **Erickson, KI**, Lopez, OL, Becker, JT, Carmichael, O, Gach, H. Energy expenditure is associated with brain injury in normal cognition, MCI, and AD. To be presented at Radiological Society of North America (November, 2012), Chicago, IL.

- * Alvarez, TA, Turney, IC, Leckie, R, Voss, MW, Prakash, RS, Chaddock, L, Szabo, A, Mailey, E, White, SM, Wojcicki, TR, Veira, VA, Martin, SA, Pence, BD, Woods, JA, McAuley, E, Kramer, AF, **Erickson, KI**. Aerobic fitness moderates and age-related decline in serum BDNF. Presented at Cognitive Aging Conference (April, 2012), Atlanta, GA.
- * Turney, IC, Weinstein, AM, Alvarez, TA, Prakash, RS, Voss, MW, Kim, J, Chaddock, L, Woods, JA, McAuley, E, Greenwood, PM, Parasuraman, R, Fryxell, KJ, Kramer, AF, **Erickson, KI**. Val66Met polymorphism is not associated with volume of the hippocampus or basal ganglia in older adults. Presented at Cognitive Aging Conference (April, 2012), Atlanta, GA.

Vo, LT, Wang, MY, Lee, H, Kramer, AF, **Erickson, KI**, Voss, MW, Prakash, RS, Walther, DB. Predicting individual differences in future learning success from T2* images: physiological basis and mechanisms. Presented at Society for Neuroscience (November, 2011), Washington D.C.

Raji, CA, **Erickson, KI**, Lopez, OL, Kuller, LH, Gach, MG, Thompson, P. Regular fish consumption is neuroprotective and reduces risk for cognitive decline in the cardiovascular health study. Presented at Radiological Society of North America (November, 2011), Chicago, IL.

- * Garcia, J, **Erickson, KI**, Raji, C, Lopez, OL, Newman, A, Rosano, C, Kuller, L. Physical activity is predictive of dementia but not mortality. Presented at International Conference on Alzheimer's Disease (July, 2011), Paris, France.
- * Verstynen, T, Weinstein, AM, Schneider, WW, Jakicic, JM, **Erickson, KI**. Increased BMI is associated with globally decreased white matter integrity. Presented at Organization for Human Brain Mapping (June, 2011), Quebec City, CA.
- * Miller, DL, **Erickson, KI**, Prakash, RS, Voss, MW, Basak, C, Kim, JS, Chaddock, L, Szabo, A, Mailey, E, White, SM, Wojcicki, TR, McAuley, E, Kramer, AF. Fitness, cognition, and basal ganglia volume in older adults. Presented at Organization for Human Brain Mapping (June, 2011), Quebec City, CA.
- * Weinstein, AM, Milgrom, R, Casey, M, Miller, DL, Banducci, S, Akl, S, **Erickson, KI**. Investigating cue-related brain activity during task-switching. Presented at Cognitive Neuroscience Society (April, 2011), San Francisco, CA.

Fanning, J. T., Mullen, S. P., Szabo, A. N., **Erickson, K.I.**, Kramer, A. F., & McAuley, E. Individual Differences in Fitness and Memory Response Trajectories Across a 12-month Exercise Trial. Presented at the annual meeting of the Society of Behavioral Medicine (April, 2011), Washington, DC.

Mourany, L, Prakash, RS, Lee, H, Voss, MW, **Erickson, KI**, Boot, WR, Basak, C, Neider, MB, Simons, DJ, Fabiani, M, Gratton, G, Kramer, AF. Videogame training and cortical recruitment of the attentional and default-mode networks. Presented at Cognitive Neuroscience Society (April, 2011), San Francisco, CA.

Jelinek, PE, Leigh, SR, **Erickson, KI**. Allometry of sexual dimorphism in subcortical structures of the human brain. To be presented at the American Association of Physical Anthropologists. (April, 2011), Minneapolis, MN.

Onyewuenyi, IC, Christie, IC, **Erickson, KI**, Sheu, LK, Gianaros, PJ. Presence of the metabolic syndrome covaries with basal ganglia morphology and anhedonia. Presented at American Psychosomatic Society (March, 2011), San Antonio, TX.

Voss, M.W., **Erickson, K.I.,** Prakash, R.S., Basak, C., Chaddock, L., Kim, J.S., Alves, H., Heo, S., Szabo, A.N., White, S.M., Wojcicki, T.R., Mailey, E.L., Olson, E.A., Gothe, N., Potter, V.V., Martin, S.A., Pence, B.D., Cook, M.D., Woods, J.A., McAuley, E.M., & Kramer, A.F. Neurobiological markers on plasticity of brain networks in a randomized intervention trial of exercise training in older adults. Presented at the 2nd Biennial International Conference on Resting-State Connectivity (November, 2010), Milwaukee, WI.

Szabo, A. N., Mailey, E. L., White, S. M., Wójcicki, T. R., **Erickson, K.I.,** Voss, M., Kramer, A. F., & McAuley, E. Validating a non-exercise measure of cardiorespiratory fitness: Associations with brain structure and function. Paper presented at the annual meeting of the Gerontological Society of America (November 2010), New Orleans, LA.

Vo, L, Walther, D, Kramer, AF, **Erickson, KI**, Boot, WR, Lee, H, Voss, MW, Prakash, RS, Fabiani, M, Gratton, G, Wang, YM. Predicting training success for a video game: effect of number of subjects on prediction power. Presented at Organization for Human Brain Mapping (June, 2010), Barcelona, Spain.

Jelinek, PE, Leigh, SR, **Erickson, KI**. Sexual dimorphism of sub-cortical structures in the adult human brain using MRI. Presented at the American Association of Physical Anthropologists. (April, 2010), Albuquerque, NM.

Prakash, RS, Heo, S, **Erickson, KI**, Colcombe, SJ, Kramer, AF. Investigating effects of parametric manipulation and white matter integrity on age-related neural differences. Presented at Cognitive Aging Conference (April, 2010), Atlanta, GA.

Voss, MW, Prakash, RS, **Erickson, KI**, Basak, C, Chaddock, L, Kim, JS, Alves, H, Heo, S, Szabo, A, White, SM, Wojcicki, TR, Mailey, EL, Gothe, N, Olson, EA, McAuley, E, Kramer, AF. Plasticity of brain networks in a randomized intervention trial of exercise training in older adults. Presented at Cognitive Aging Conference (April, 2010), Atlanta, GA.

Kim, JS, Basak, C, **Erickson, KI**, Prakash, RS, Voss, MW, Fryxell, KJ, Parasuraman, R, Greenwood, PM, Kramer, AF. The effect of DBH genotype on executive control in healthy older adults. Presented at Cognitive Aging Conference (April, 2010), Atlanta, GA.

- * Miller, DL, McGarry, C, Lane, J, McLaren, M, Weinstein, AM, Brown, RL, **Erickson, KI**. Cueing the target: examining the effect of cues to ameliorate age-related deficits in attentional control. Presented at Cognitive Aging Conference (April, 2010), Atlanta, GA.
- * Weinstein, AM, Glaser, JR, Tunacao, JM, Brown, RL, Miller, DL, **Erickson, KI**. The effect of extended cueing periods on task-switch performance in late adulthood. Presented at Cognitive Aging Conference (April, 2010), Atlanta, GA.

Chaddock, L, **Erickson, KI**, Prakash, RS, Kim, JS, Voss, MW, VanPatter, M, Pontivex, MB, Raine, LB, Konkel, A, Hillman, CH, Cohen, NJ, Kramer, AF. A neuroimaging investigation of the association between aerobic fitness, hippocampal volume and memory performance in preadolescent children. Presented at Cognitive Neuroscience Society (April, 2010), Montreal, Canada.

Voss, MW, Prakash, RS, **Erickson, KI**, Boot, W, Basak, C, Neider, M, Fabiani, M, Gratton, G, Kramer, AF. Training-induced plasticity in large-scale brain networks from the acquisition of skilled space fortress performance. Presented at Cognitive Neuroscience Society (April, 2010), Montreal, Canada.

Erickson, KI, Miller, DL, Weinstein, AM, Jakicic, JM. How normal weight, overweight, and obese brains work differently: differential neural responses to food stimuli and inhibition tasks. Presented at Cognitive Neuroscience Society (April, 2010), Montreal, Canada.

Szabo, AN, Voss, M, **Erickson, KI**, White, SM, Wojcicki, T, Mailey, E, Kramer, AF, McAuley, E. Hippocampus volume, memory function, and frequency of forgetting in older adults. Presented at Gerontological Society of America (November, 2009), Atlanta, GA.

Vo, LTK, Walther, DB, Wang, YM, **Erickson, KI**, Boot, WR, Voss, MW, Prakash, RS, Kramer, AF. Predicting training success for individuals from patterns of pre-training fMRI activity. Presented at Human Brain Mapping Conference (June, 2009), San Francisco, CA.

Erickson, KI, Epstein, DE, Malkowski, EJ, Warraich, Z, Korol, DL. Voluntary exercise enhances place-learning in young male rats. Presented at Society for Neuroscience (November, 2007), San Diego, CA.

Kim, JS, **Erickson, KI**, Suever, BL, Colcombe, SJ, McAuley, E, Francis, BM, Kramer, AF. COMT and DBH genotype predict performance in healthy older adults. Presented at Society for Neuroscience (November, 2007), San Diego, CA.

Erickson, KI, Kim, JS, Suever, BL, Colcombe, SJ, McAuley, E, Francis, BM, Kramer, AF. COMT val158met polymorphism is associated with working memory and executive function in community-dwelling older adults. Presented at Cognitive Aging Conference (July, 2007), Adelaide, South Australia.

Erickson, KI, Suever, BL, Prakash, RS, Colcombe, SJ, Kramer, AF. Greater intake of vitamins B_6 and B_{12} spares gray matter in healthy elderly: A voxel-based morphometry study. Presented at Cognitive Aging Conference (July, 2007), Adelaide, South Australia.

Alvarado, M, **Erickson, KI**, Kim, JS, Voss, MW, Colcombe, SJ, Kramer, AF. Higher physical fitness levels are associated with greater cortical activity in a dual-task paradigm. Presented at Cognitive Aging Conference (July, 2007), Adelaide, South Australia.

Kennedy, KM, **Erickson, KI**, Rodrigue, KM, Voss, MW, Kramer, AF, Raz, N. Age-related changes in regional brain volume: manual volumetry vs. voxel-based morphometry. Presented at Cognitive Neuroscience Society (April, 2007), New York, NY.

Prakash, RS, **Erickson, KI**, Colcombe, SJ, Kim, JS, Sutton, B, Kramer, AF. Age-related differences in the involvement of the prefrontal and parietal cortex in attentional control. Presented at Society for Psychophysiological Research (November, 2006), Vancouver, Canada.

Prakash, RS, Snook, EM, **Erickson, KI**, Colcombe, SJ, Webb, ML, Motl, RW, Kramer, AF. Cardiorespiratory Fitness: A Predictor of Cortical Plasticity in Multiple Sclerosis. Presented at Society for Psychophysiological Research (November, 2006), Vancouver, Canada.

Erickson, KI, Pruis, T, Debrey, S, Bohacek, J, Korol, DL. Estrogen and exercise interact to up-regulate BDNF levels in the hippocampus but not striatum of middle-aged brown-norway rats. Presented at Society for Neuroscience (October, 2006), Atlanta, GA.

Wadhwa, R, **Erickson, KI**, Colcombe, SJ, Kim, JS, Kramer, AF. Age-related differences in activation of the prefrontal cortex in response to modulation of levels of conflict. Presented at Society for Psychophysiological Research (2006), Vancouver, Canada.

Wadhwa, R, Snook, EM, **Erickson, KI**, Colcombe, SJ, Webb, ML, Motl, RW, Kramer, AF. Cardiorespiratory fitness: a predictor of cortical plasticity in multiple sclerosis. Presented at Society for Psychophysiological Research (2006), Vancouver, Canada.

Chang, SE, **Erickson**, **KI**, Ambrose, NG, Hasegawa-Johnson, M, Ludlow, CL. White matter development in left hemisphere speech-language regions differentiates stuttering children from normally fluent children: A diffusion tensor imaging (DTI) study. Presented at Society for Neuroscience (October, 2006), Atlanta, GA.

Kennedy, KM, **Erickson, KI**, Rodrigue, KM, Webb, M, Colcombe, SJ, Kramer, AF., Raz, N. Age-related differences in regional brain volumes: A manual volumetric vs voxel-based morphometry comparison. Presented at Human Brain Mapping (June, 2006), Florence, Italy.

Erickson, KI, Colcombe, SJ, Wadhwa, R, Bherer, L, Peterson, MS, Scalf, PE, Kim, JS, Alvarado, M, Kramer, AF. Training-induced plasticity in older adults: Effects of training on hemispheric asymmetry. Presented at Cognitive Aging Conference (April, 2006), Atlanta, GA.

Colcombe, SJ, Wadhwa, R, **Erickson, KI**, Scalf, PE, Kim, JS, Alvarado, M, Kramer, AF. Old brains do not learn new tricks: Intact functional specificity in the aging prefrontal cortex. Presented at Cognitive Aging Conference (April, 2006), Atlanta, GA.

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