

David A. Ziegler, Ph.D.

Sandler Neuroscience Center
675 Nelson Rising Lane, Room 505
UCSF MC 0444
San Francisco, CA 94158
Tel: 415-502-7322
david.ziegler@ucsf.edu



Education and Training

August 2011 – June 2016	Postdoctoral Scholar Department of Neurology University of California, San Francisco Principle Investigator: Adam Gazzaley
September 2011	<i>Ph.D.</i> in Systems Neuroscience Department of Brain and Cognitive Sciences MIT, Cambridge, MA Thesis advisor: Suzanne Corkin
May 1999	<i>B.S.</i> in Psychobiology, Summa Cum Laude Denison University, Granville, OH

Principle Positions

July 2016 – present	<i>Director of Multimodal Biosensing, Technology Program, Neuroscape, UCSF</i>
March 2019—present	<i>Associate Professional Researcher, Department of Neurology, UCSF Affiliate, Weill Institute for Neurosciences & Kavli Institute for Fundamental Neuroscience, UCSF</i>
July 2016—February 2019	<i>Specialist, Department of Neurology, UCSF</i>

Teaching Positions

January 2015 – present	Adjunct Professor (part time) Department of Psychology University of San Francisco Courses taught: “Human Neuropsychology,” “Advanced Research Topics: Neuropsychology of Aging,” and “Advanced Research Methods: Cognitive Neurotherapeutics”
January 2014 – May 2014	Instructor (part time) Department of Psychology San Francisco State University Courses taught: “Perception”

Research Positions

2001 – 2004	<i>Senior Research Assistant</i> Center for Morphometric Analysis, Department of Neurology Massachusetts General Hospital, Boston, MA Principle Investigators: Martha R. Herbert & Verne S. Caviness
-------------	---

Honors and Awards

- Selected for participation in the NIH-sponsored Research Career Institute in the Mental Health of Aging mentorship program (2020)
- Advanced Psychometrics in Cognitive Aging Workshop Award, Friday Harbor, WA (2015 & 2017)
- UCSF School of Medicine Technology Transformation Grant Recipient (2014)
- Organization for Human Brain Mapping Trainee Abstract Travel Award (2013)
- NIH Loan Repayment Program (2012-present)
- UCSF Postdoctoral Travel Award (2012)
- Angus MacDonald Award for Excellence in Undergraduate Teaching (MIT; 2011)
- Advanced Multimodal Neuroimaging Training Program Fellowship (MIT/MGH; 2007-2009)
- Honorable Mention, NSF Graduate Research Fellowship Program (2005)
- Précis Presidential Fellowship (MIT; 2004-2005)
- Young Investigator Scholarship, UC Davis Epilepsy and Autism Conference (2004)
- John Merck Fund scholarship to attend Cold Spring Harbor course “Neurobiology of Developmental Disorders” (Summer 2002)
- President's Medal (Denison University; 1999)
- Distinguished Leadership Award (Denison University; 1999)
- Irvine Wolf Prize in Psychology (Denison University; 1999)
- Anderson Summer Research Fellowship, (summer 1997 & 1998)
- Denison University Trustee Award (4 years; 1995-1999)
- Phi Beta Kappa (1999-present)
- Department of Psychology Fellow, Denison University (Fall 1998-May 1999)
- Mortar Board, member (1998-present)
- Omicron Delta Kappa, member (1998-present)

Professional Societies

- Organization for Human Brain Mapping 2005 – present
- Society for Neuroscience 2002 – present
- Cognitive Neuroscience Society 2001 – 2003
- Sigma Xi 1997 – 2001
- Psi Chi 1997 – 2001

Ad Hoc Referee

- Brain Structure and Function
- Cerebral Cortex
- Clinical EEG & Neuroscience
- Cognitive, Affective, and Behavioral Neuroscience
- JAMA Neurology
- Journal of Experimental Child Psychology
- Journal of Neurology, Neurosurgery, and Psychiatry
- Journal of Neuroscience
- Journal of Parkinson's Disease
- Journal of the American Aging Association (AGE)
- Nature Sustainability
- Neurobiology of Aging
- NeuroImage
- Neuroscience and Biobehavioral Reviews
- Neurology
- Neuroscience Letters
- Parkinsonism & Related Disorders
- PLoS ONE
- Translational Neuroscience

Invited Lectures

Date	Organization	Lecture Series	Title
Feb 2021	American Society for Experimental Neurotherapeutics	Invited Symposium at Annual Meeting	A digital approach to enhancing cognition, reducing stress, and boosting cellular markers of aging
Dec 2020	UCSF Center for Health and Community	Aging, Metabolism, and Emotions (AME) Center Colloquium	MediTrain: A closed-loop digital meditation approach to enhancing cognition and wellbeing
May 2018	UCSF	UCSF Digital Health Core Seminar Series	MediTrain: A Mobile Meditation Intervention for Improving Attention
Dec 2017	UCSF Osher Center for Integrative Medicine	OCIM Research Seminar	A neuroplasticity-based approach to enhancing internal attention
Dec 2016	Center for Practical Wisdom, University of Chicago	Essential Self Technology Network meeting	Cognitive Neurotherapeutic Approaches to Enhancing Attention and Self-Regulation
Nov 2016	International Symposium on Contemplative Studies	Symposium: Quantifying Interoception	Quantifying Interoception: A neuroplasticity-based approach to meditation training in novices
Nov 2015	University of San Francisco	Neuroscience Minor Lecture Series	Dynamics and plasticity of attention and self-regulation in healthy aging
June 2015	UCSF Medical School	Training the Mind Seminar Series	Training internal attention with a novel meditation game
April 2013	Cognitive Aging Conference (Dortmund, DE)	Symposium on oscillations in aging (organizer and chair)	The effects of aging on white matter and cognitive rhythms
Dec 2012	MIT	Symposium honoring Sue Corkin's career	Cognitive control networks in the aging brain
June 2012	International Neuropsychological Society (Oslo, NO)	Symposium on Aging and MCI	Cognitive control networks in the aging brain
Nov 2011	Mills College	Mills College Lifespan Development Lecture Series	Structural and functional integrity of cognitive control networks in healthy aging
Mar 2011	MGH	Moshe Bar Lab Meeting	Cognition in healthy aging: Structural and functional integrity of neural circuits that support memory and attention
Feb 2007	MGH	Movement Disorders Unit Lecture Series	Unmasking heterogeneity in Parkinson's disease: Novel MRI and cognitive measures

Mar 2006	MIT	BrainLunch	White or gray: Which matter matters more in healthy aging?
Oct 2003	Colby College	Department of Mathematics Colloquium Series	A bit more here, a bit less there: Factor analyzing brain volumes in autism

Teaching Experience

- Guest Lecturer, Neural Basis of Learning and Memory (MIT, 9.03) Fall 2005
Title: “Imaging the human brain”
Instructors: Suzanne Corkin and Matthew Wilson
- Teaching Assistant, Introduction to Psychology (MIT, 9.00) Spring 2006
Instructor: Jeremy Wolfe
- Guest Lecturer, Cognitive Neuroscience (MIT, 9.10) Spring 2006
Title: “Neural plasticity in adult brains: From synapses to cognitive networks”
Instructor: Suzanne Corkin
- Teaching Assistant, Cognitive Processes (MIT, 9.65) Spring 2007
Instructor: Molly Potter
- Guest Lecturer, Neural Basis of Learning and Memory (MIT, 9.03) Fall 2007
Title: “Neuroimaging techniques for studying learning and memory” Fall 2009
Instructors: Suzanne Corkin and Matthew Wilson
- Guest Lecturer, Cognitive Processes (MIT, 9.65) Spring 2008
Title: “Implicit and explicit memory: Evidence for multiple memory systems in the brain?” Spring 2009
Instructor: Molly Potter
- Teaching Assistant, Cognitive Neuroscience (MIT, 9.10) Fall 2008
Instructor: Suzanne Corkin Fall 2010
Lectures: “Neuroimaging techniques for studying cognitive processes”
“Working memory and cognitive control processes”
- Teaching Fellow, The Human Mind (Harvard University, SB-62) Spring 2009
Instructor: Steven Pinker
- Teaching Fellow, Psychological Science (Harvard University, SLS-20) Fall 2009
Instructor: Steven Pinker
- Guest Lecturer, Cognitive Neuroscience (San Francisco State University) July 2012
Title: “Working memory and cognitive control processes”
Instructor: Joaquin Anguera
- Guest Lecturer, Cognitive Neuroscience (San Francisco State University) May 2013
Title: “Working memory and cognitive control processes” Sept 2013
Title: “Who’s doing the Thinking? Techniques in Cognitive Neuroscience”
Instructor: Judy Pa
- Adjunct Professor, Perception (Psych 492; San Francisco State University) Spring, 2014
- Adjunct Professor, Advanced Research Topics: Neuropsychology of Aging (PSYC 387; University of San Francisco) 2015-present

- Adjunct Professor, Human Neuropsychology (PSYC 351; University of San Francisco) 2015-present
- Adjunct Professor, Advanced Research Methods: Cognitive Neurotherapeutics (PSYC 388; University of San Francisco) 2016-present
- Visiting Lecturer, Advanced Clinical Neuroscience for Residents and Fellows (NS219, UCSF) 2018-present

Current Research Support

National Institute on Aging (NIA) 06/01/2022 – 5/31/2027
 R01-AG076668: *Optimizing a closed-loop digital meditation intervention for remediating cognitive decline and reducing stress in older adults.*
 Total costs: \$7,115,741
 Role: **Principal Investigator**

Anonymous Corporate Sponsor 03/01/2021 – 03/31/2023
 C56-20-00061: *Music & Brain Interaction on Performance & Well-Being*
 Total costs: \$383,918
 Role: Co-Investigator (PI: Zanto)

Pending Research Support

National Institute on Aging (NIA) 12/01/2022 – 11/30/2024
 R61-AG080528: *Accelerating Cognitive Gains from Digital Meditation with Noninvasive Brain Stimulation: A Pilot Study in MCI*
 Total award amount: \$1,049,177
 Role: **Principal Investigator**

National Institute on Aging (NIA) 04/01/2021 – 3/31/2023
 P0552230 / R21: *Portable technology to predict cognitive decline towards Alzheimer's disease*
 This research aims to ascertain whether biometrics and behavioral performance on everyday tasks can predict cognitive deficiencies in older adults with mild cognitive impairment (MCI). Advanced aging, particularly in MCI, has been associated with numerous cognitive deficits that decrease quality of life and increases risk for subsequent dementia
 Total costs: \$444,125
 Role: Co-Investigator (PI: Zanto)

Past Research Support

National Institute on Aging (NIA) 08/15/2015 – 05/31/2020
 R01-AG049424: *Enhancing Cognitive Control in Older Adults with Complementary Interventions*
 Total costs: \$2,462,385
 Role: Co-Investigator (PI: Gazzaley)

National Institute on Aging (NIA)
 R21-AG041071: *Mechanisms of self-regulation of internal distraction*.
 Total costs: \$382,388
 Role: Postdoctoral Scholar (PI: Gazzaley)

09/30/2011 – 08/31/2013

Publications

- Simon AJ, Gallen CL, **Ziegler DA**, Mishra J, Marco EJ, Anguera JA, Gazzaley A. (in prep). Defining attention span: How long can you sustain an “in the zone” attentional state?
- Ziegler DA**, Anguera JA, Gallen CL, Hsu WY, Wais PE, Gazzaley A. (in press). Leveraging Technology to Personalize Cognitive Enhancement in Aging. *Nature Aging*.
- Velasquez AG, Gazzaley A, Toyoda H, **Ziegler DA** and Morsella E. (2021). The Generation of Involuntary Mental Imagery in an Ecologically-Valid Task. *Front. Psychol.* 12:759685. doi: 10.3389/fpsyg.2021.759685
- Brechet L, **Ziegler DA**, Simon AJ, Brunet D, Gazzaley A, Michel CE. (2021). Reconfiguration of EEG microstates after breath-focused digital meditation training. *Brain Connect*, Feb 9. doi: 10.1089/brain.2020.0848.
- Weng HY, Lewis-Peacock JA, Hecht FM, Uncapher M, **Ziegler DA**, Farb N, Goldman V, Skinner S, Duncan LG, Chao M, Gazzaley A. (2020). Focus on the breath: Brain decoding reveals internal states of attention during meditation. *Front. Hum. Neurosci.*
- Hammond T, Xing X, Ma D, 4, Nho K, Crane P, Elahi F, **Ziegler DA**, Liang T, Cheng Q, Jacobs N, Lin A, Alzheimer’s Disease Neuroimaging Initiatives (ADNI). (2020). β -Amyloid and Tau Drive Early Alzheimer’s Disease Decline While Glucose Hypometabolism Drives Late Decline. *Communications Biology*. 3, Article number: 352. DOI: [10.1038/s42003-020-1079-x](https://doi.org/10.1038/s42003-020-1079-x)
- Mishra J, Sagar R, Parveen S, Kumaran S, Modi K, Maric V, **Ziegler DA**, Gazzaley A. (2020). Closed-loop Digital Meditation Facilitates Neuro-Cognitive and Behavioral Development in Adolescents with Childhood Trauma. *Translational Psychiatry*. 10, 1-13. DOI: [10.1038/s41398-020-0820-z](https://doi.org/10.1038/s41398-020-0820-z)
- Ziegler DA**, Simon AJ, Gallen CL, Skinner S, Janowich JR, Volponi JJ, Rolle CE, Mishra J, Kornfield J, Anguera JA, Gazzaley A. (2019). Closed-loop Digital Meditation Improves Sustained Attention in Young Adults. *Nature Human Behaviour*, 3(7):746-757. DOI: [10.1038/s41562-019-0611-9](https://doi.org/10.1038/s41562-019-0611-9)
- Ziegler DA**, Janowich J, Gazzaley A. (2018). Differential Impact of Interference on Internally- and Externally-Directed Attention. *Scientific Reports*, 8(1):2498.
- Simon AJ, Skinner SN, **Ziegler DA**. (2016). Training Working Memory: Anatomy Matters. *Journal of Neuroscience*. 36(30):7805-6.
- Ziegler DA**, Mishra J, Gazzaley A. (2015). The acute and chronic impact of technology on our brain. in L.D. Rosen, L.M. Carrier, N.A. Cheever (Ed.), *The Handbook of Psychology, Technology and Society*.
- Ziegler DA** and Corkin S. (2014). New magnetic resonance imaging biomarkers advance the characterization of Parkinson’s disease. *European Neurological Review*, 9(1):86-89.
- Ziegler DA**, Ashourian P, Wonderlick JS, Sarokhan AK, Prelec D, Scherzer CR, Corkin S (2014). Motor Impulsivity in Parkinson Disease: Associations with COMT and DRD2 polymorphisms. *Scand J Psychol*, 55(3): 278-86.
- Mishra J, Anguera JA, **Ziegler DA**, Gazzaley A. (2013). A cognitive framework for understanding and improving interference resolution in the brain. *Prog Brain Res*, 207:351-77.
- Ziegler DA** and Augustinack JC. (2013). Harnessing advances in structural MRI to enhance research on Parkinson’s disease. *Imaging in Medicine*, 5(2): 91-94.

- Ziegler DA**, Wonderlick JS, Ashourian P, Hansen LA, Young JC, Murphy AJ, Kopuzha CK, Growdon JH, Corkin S. (2013). Substantia nigra volume loss before basal forebrain degeneration in early Parkinson disease. *JAMA Neurology*, *70*(2), 241-247.
- Ziegler DA** and Corkin S. (2013). New MRI biomarkers advance the characterization of Parkinson disease. *US Neurology*, *9*: 8–12.
- O'Brien LM, **Ziegler DA**, Herbert MR, Deutsch CK, Frazier JA. (2011). Adjustment for head size differences in volumetric MRI studies: theoretical issues and practical implications. *Psychiatry Research: Neuroimaging*, *193*(2): 113-122.
- Ziegler DA**, Piquet O, Salat DH, Prince K, Connally E, Corkin S. (2010). Cognition in healthy aging is related to regional white matter integrity, but not cortical thickness. *Neurobiol Aging*, *31*(11): 1912-26.
- Ziegler DA**, Pritchett DL, Hosseini-Varnamkhasti P, Corkin S, Hämäläinen M, Moore CI, Jones SR. (2010). Transformations in oscillatory activity and evoked responses in primary somatosensory cortex in middle age: A combined computational neural modeling and MEG study. *Neuroimage*, *52*(3): 897-912.
- Wonderlick JS, **Ziegler DA**, Hosseini-Varnamkhasti P, Bakkour A, van der Kouwe A, Triantafyllou C, Corkin S, Dickerson BC. (2009). Reliability of MRI-derived cortical and subcortical morphometric measures: Effects of pulse sequence, voxel geometry, and parallel imaging. *Neuroimage*, *44*(4): 1324-33.
- Wrase J, Makris N, Braus DF, Mann K, Smolka MN, Kennedy DN, Caviness VS, Hodge SM, Tang L, Albaugh M, **Ziegler DA**, Davis OC, Kissling C, Schumann G, Breiter HC, Heinz A. (2008). Amygdala volume associated with alcohol abuse relapse and craving. *Am J Psychiatry*, *165*(9). 1179-84.
- O'Brien LM, **Ziegler DA**, Deutsch CK, Kennedy DN, Goldstein J, Seidman L, Hodge S, Makris N, Caviness VS, Frazier J, Herbert MR. (2006). Adjustment for whole brain and cranial size in volumetric brain studies: a review of common adjustment factors and statistical methods. *Harvard Review of Psychiatry*, *14*. 141-151.
- Herbert MR, **Ziegler DA**, Deutsch CK, O'Brien LM, Kennedy DN, Filipek PA, Bakardjiev A, Hodgson J, Takeoka M, Makris N, Caviness VS Jr. (2005). Brain asymmetries in autism and developmental language disorder: A nested multi-level analysis. *Brain*, *128*. 213-226.
- Herbert MR, **Ziegler DA**. (2005). Volumetric neuroimaging and low-dose early-life exposures: Loose coupling of pathogenesis-brain-behavior links. *Neurotoxicology*, *26*(4): 565-572.
- Herbert MR, **Ziegler DA**, Makris N, Filipek PA, Normandin JJ, Sanders HA, Kennedy DN, Caviness VS Jr. (2004). Localization of white matter volume increase in autism and developmental language disorder. *Annals of Neurology*, *55*. 530-540.
- Herbert MR & **Ziegler DA** (2004). White matter volume increase and minicolumns in autism—Reply. *Annals of Neurology*, *56*(3). 454.
- Makris N, Gasic GP, Seidman LJ, Goldstein JM, Gastfriend DR, Elman I, Albaugh DM, Hodge SM, **Ziegler DA**, Sheahan F, Caviness VS Jr, Tsuang MT, Kennedy DN, Hyman SE, Rosen BR, Breiter HC. (2004). Decreased absolute amygdala volume in cocaine addicts. *Neuron*, *44*. 729-740.
- De Fosse L, Hodge SM, Makris N, Kennedy DN, Caviness VS Jr, McGrath L, Steele S, **Ziegler DA**, Herbert MR, Frazier J, Tager-Flusberg H, Harris GJ. (2004). Language-association cortex asymmetry in autism and specific language impairment. *Annals of Neurology*, *56*(6). 757-766.
- Herbert MR, **Ziegler DA**, Deutch CK, O'Brien LM, Lange NT, Bakardjiev A, Hodgson J, Adrien KT, Steele S, Makris N, Kennedy DN, Harris GJ, Caviness VS Jr. (2003). Dissociations of cerebral cortex, subcortical, and cerebral white matter volumes in autistic boys. *Brain*, *126* (5). 1182-1192.
- Herbert MR, **Ziegler DA**, Makris N, Bakardjiev A, Hodgson J, Adrien KT, Kennedy DN, Harris GJ, & Caviness VS. (2003). Larger brain and white matter volumes in children with developmental language disorder. *Developmental Science*, *6*(4). F11-F22.
- Herbert MR, **Ziegler DA**, Kennedy DN, Makris N, Caviness VS Jr. (2003). MRI structural neuroimaging of autism and developmental language disorder: A review and commentary. In: *Advances in Clinical Neurosciences 2003*, Singh K.K. & Chandra P., eds. Association of Neuroscientists of Eastern India, Ranchi 2003.

- Herbert MR, Harris GJ, Adrien KT, **Ziegler DA**, Makris N, Kennedy DN, Lange NT, Chabris, CF, Bakardjiev A, Hodgson J, Takeoka M, Tager-Flusberg H, Caviness VS Jr. (2002). Abnormal asymmetry in language association cortex in autism. *Annals of Neurology*, 52. 588-596.
- Pollard JW, Freeman JE, **Ziegler DA**, Hersman MN, & Goss CW. (2000). Predictions of normative drug use by college students: False consensus, false uniqueness, or just plain accuracy? *Journal of College Student Psychotherapy*, 14. 5-12.

Conference Abstracts

- Simon, AJ., Gallen, CL., Volponi, JJ., Campusano, R., Schachtner, JN., Colville, AB., Verma, A., **Ziegler, DA.**, Mishra, J., Anguera, JA., Gazzaley, A. *Characterizing Optimal Sustained Attention in Older Versus Young Adults Using EEG* (2020). Cognitive Neuroscience Society annual meeting. Boston, MA.
- Ziegler DA**, Simon AJ, Rolle C, Skinner S, Gallen C, Gazzaley A. (2018). Closed-loop, digital, meditation training program improves sustained attention. Program No. 792.19. 2018 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2018. Online.
- Simon AJ, Campusano R, Volponi J, Skinner S, Anguera J, Gazzaley A, **Ziegler DA**. (2018). Dynamics of parietal lobe activity predict variability in sustained attention. Abstract presented at the annual meeting of the Cognitive Neuroscience Society.
- Ziegler DA**, Skinner SN, Simon A, Gazzaley A. (2017). Meditation-Inspired Cognitive Training Improves Working Memory and Increases Cortical Thickness. Abstract presented at the annual meeting of the Organization for Human Brain Mapping.
- Skinner SN, Simon AJ, **Ziegler DA**, Gazzaley A. (2016). Internal attention training improves working memory and distractor suppression in young adults. 2016 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2016. Online.
- Ziegler DA**, Janowich J, Gazzaley A. (2015). Dynamic Interplay between distractions and internally- and externally-directed attention. Annual Meeting of the International Neuropsychological Society, Denver, CO.
- Ziegler DA**, Ashourian P, Wonderlick JS, Sarakhan Ak, Prelec D, Scherzer CR, Corkin S. (2015). DRD2 polymorphisms confer increased risk of behavioral impulsivity in Parkinson Disease. Annual Meeting of the International Neuropsychological Society, Denver, CO.
- Ziegler DA**, Janowich J, Gazzaley A. (2014). Dynamics and plasticity of self-regulating internal attention. Bay Area Memory Meeting, Palo Alto, CA.
- Ziegler DA**, Rubens, MT, Janowich, J, Warbrick T., Zanto TP, and Gazzaley A. (2013). Neural correlates of age-related changes in fluctuations of attention. 2013 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2013. Online.
- Ziegler DA**, Ashourian P, Griffith EY, Hansen LA, Hämäläinen M, Corkin S. (2013). White matter damage in healthy aging disrupts neural oscillations underlying top-down attention. Oral presentation and poster at the 2013 annual meeting of the Organization for Human Brain Mapping.
- Ziegler DA** and Gazzaley A. (2013). Effects of age and external noise on self-regulation of internal distractions. Cognitive Neuroscience Society annual meeting.
- Ziegler DA**, Finnegan CB, Gazzaley A. (2013). Meditation-inspired cognitive training promotes self-regulation of internal distractions. Entertainment Software & Cognitive Neurotherapeutics Society (ESCoNS) Conference.
- Ziegler DA**, Wonderlick JS, Hansen LA, Young JC, Ashourian P, Growdon JH, Corkin S. (2011). New multispectral MRI tools reveal stage-dependant decreases in basal forebrain and substantia nigra

- volumes in early Parkinson's disease. Program No. 49.17. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- Ziegler DA**, Hosseini P, Griffith EY, Hansen LA, Hämäläinen M, Corkin S. (2010). Age-related changes in oscillatory dynamics associated with visual attention. Program No. 605.4. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
- Hosseini P, **Ziegler DA**, Wonderlick JS, Hansen LA, Koppuzha CC, Scherzer CR, Corkin S. (2010). Neuroanatomical underpinnings of formed and benign hallucinations in idiopathic Parkinson's disease. Program No. 51.14. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
- Ziegler DA**, Wonderlick JS, Murphy AJ, Fischl B, Growdon JH, Corkin S. (2009). Automatically segmenting midbrain structures using new multispectral MRI tools: Method and application to Parkinson's disease. Poster presented at the 15th annual meeting of the Organization for Human Brain Mapping.
- Ziegler DA**, Wan Q, Pritchett DL, Kerr CE, Corkin S, Moore CI, Jones SR. (2009). Age-related changes in neural dynamics during tactile detection. Poster presented at the 15th annual meeting of the Organization for Human Brain Mapping.
- Ziegler DA**, Wonderlick JS, Murphy A, Growdon JH, Corkin S. (2008). New multispectral MRI methods may improve the diagnosis and tracking of Parkinson's disease. Program No. 442.19. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
- Ziegler DA**, Wonderlick J, Locascio J, Hosseini P, van der Kouwe A, Triantafyllou C, Corkin S, Dickerson BC. (2008). Effects of pulse sequence, voxel geometry, and parallel acceleration on the reliability of cortical and subcortical neuroanatomical measures. Program No. 398.12. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
- Wonderlick JS, **Ziegler DA**, Bakkour A, van der Kouwe A, Triantafyllou C, Corkin S, and Dickerson BC. (2007). Test-retest reliability of cortical thickness measures: Effects of pulse sequence, geometry, and parallel acquisition. Poster presented at the 13th annual meeting of the Organization for Human Brain Mapping.
- Ziegler DA**, Wonderlick JS, Growdon JH, Corkin S. (2007). DTI-based measures of microstructural tissue integrity in Parkinson's disease. Program No. 369.16. 2007 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2007. Online.
- Corkin S, **Ziegler DA**, Prince K, Piguet O. (2006). Young adults show frontoparietal activation when encoding subsequently remembered negative (NEG) and positive (POS), but not neutral (NEU), words. Poster presented at the 12th annual meeting of the Organization for Human Brain Mapping.
- Ziegler DA**, Makris N, Kennedy DN, Caviness VS, Filipek PA, Herbert MR. (2006). Corpus callosum volume is reduced relative to overall white matter volume in autism and developmental language disorder. Abstract presented at the 2006 International Meeting for Autism Research.
- Ziegler DA**, Piguet O, Prince K, Connally E, Salat DH, Corkin S. (2006). Do decreases in cortical thickness or volume relate to cognitive performance in healthy aging? Program No. 158.10. 2006 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2006. Online.
- Bentwich J, Benveniste H, **Ziegler DA**, Maletic-Savatic M, Filipek PA, Kennedy D, Makris N, Caviness VS, Herbert MR. (2005) Rightward volume asymmetry in mentalizing networks in autistic cerebral cortex. Poster presented at the 2005 International Meeting for Autism Research (Session #P1A.2.1).
- Herbert MR, Russo JR, Blaxill MF, Kahler SG, **Ziegler DA**, Hatchwell E. (2005) Autism and environmental genomics. Poster presented at the 2005 International Meeting for Autism Research (Session # P4A.1.9).

- Wrase J, Makris N, Schumann G, Braus DF, Smolka MN, Mann K, **Ziegler DA**, Gasic GP, Breiter HC, Heinz A. (2005). Genotype association to amygdala volume, craving and alcohol relapse. Poster presented at 11th annual meeting of the Organization for Human Brain Mapping (Session #205 M-AM).
- Ziegler DA**, Salat DH, Hayes SM, Prince K, Connally E, Piquet O, Corkin S. (2005). DTI-based measures of white matter (WM) integrity predict cognitive performance in healthy aging. Program No. 408.3. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2005. Online.
- Ziegler DA**, Braun N, Filipek PA, Hodge SM, Makris N, Herbert MR, Deutsch CK. (2004). Postcentral sulcus morphology correlates with white matter volume in children with autism, language impairment and controls. Program No. 582.5. 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004. Online.
- Herbert MR, **Ziegler DA**, Deutsch CK, O'Brien LM, Kennedy D, Filipek P, Bakardjiev A, Hodgson J, Takeoka M, Makris N, Caviness V Jr. (2004). Widespread similar cortical asymmetries in autism and developmental language disorder are most prominent in higher-order association areas. Slide presentation at the 2004 International Meeting for Autism Research (Session # S3.5.5)
- Herbert MR, **Ziegler DA**, Makris N, Filipek PA, Deutsch C, Kennedy DN, Caviness VS. (2004). Dissociations between pathogenesis brain and brain-behavior correlations: Implications for imaging research. *Neurotoxicology*, 25(4): 705.
- Ziegler, DA**, Herbert, MR, Makris, N Kennedy, DN, Caviness, VS. (2003). Relationships between brain volume, corpus callosum area and volumetric asymmetries. Program No. 935.1. 2003 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2003. Online.
- Herbert, MR, **Ziegler, DA**, Makris, N, Normandin, JJ, Sanders, HA, Kennedy, DN, Caviness, VS. (2003). White matter in autism and developmental language disorder: localization of volumetric increase with a novel parcellation method. Program No. 647.2. 2003 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2003. Online.
- Ziegler DA**, Herbert MR, Hodge SM, Deutsch C, Steele S, McGrath L, Kennedy DN, Harris GJ, Tager-Flusberg H, Caviness VS. (2002). Disproportionate linear scaling of cerebral white to gray matter in boys with autism and developmental language disorder. Program No. 124.7. 2002 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2002. Online.
- Ziegler DA**, Herbert MR, Goldstein JM, Makris N, Kennedy DN, Caviness VS. (2002). Similar brain asymmetries in boys with autism and developmental language disorder. Slide presentation at the 2002 International Meeting for Autism Research (Session #S3.2.5)
- Ziegler, DA**, Herbert, MR, Deutsch, CK, Makris, N, Kennedy, DN, Caviness, VS. (2002). Dissociation of cerebral cortex, subcortical and cerebral white matter volume differences in non-retarded autistic boys. Poster presented at the 2002 International Meeting for Autism Research (Session #P1.5.23).
- Herbert MR, **Ziegler DA**, Makris N, Sanders HA, Normandin JJ, Deutsch C, Kennedy DN, Caviness VS. (2002). White matter increases in autism are largely in superficial radiate regions. Slide presentation at the 2002 International Meeting for Autism Research (Session # S3.2.3)
- Ziegler, DA**, Herbert, MR, Adrien, KT, Makris, N, Kennedy, DN, Bakardjiev, A, Hodgson, J, Takeoka, M, Harris, GJ, Caviness, VS. (2002). Cortical asymmetries and language ability in boys with autism or specific language impairment. Poster presented at the annual meeting of the Cognitive Neuroscience Society (Session #D26).
- Herbert, MR, **Ziegler, DA**, Adrien, KT, Makris, N, Kennedy, DN, Bakardjiev, A, Hodgson, J, Takeoka, M, Harris, GJ, & Caviness, VS. (2002). Asymmetries in language-related cortical regions in girls and boys with specific language impairment. Poster presented at the annual meeting of the Cognitive Neuroscience Society (Session #D27).

- Herbert MR, **Ziegler DA**, Makris N, Bakardjiev A, Hodgson J, Adrien KT, Kennedy D, Harris GJ, Caviness VS. (2002). Increased cerebral white matter and brain volume in children with developmental language disorder. Platform. Child Neurology Soc, 2002, Washington D.C.
- Herbert MR, **Ziegler DA**, Makris N, Kennedy DN, Deutsch C, Caviness VS. (2002). Regional distribution of white matter volume increases in high-functioning autistic boys. Oral presentation at the International Society for Magnetic Resonance in Medicine workshop “MR of Childhood White Matter Disorders.”
- Freeman, JE, Pollard, JW, Hersman, MN, Goss, CW, & **Ziegler, DA**. (1997). Deconstructing the false consensus theory of drug use on campus. Poster presented at the national meeting of the American Psychological Association.
- Pollard, JW, Freeman, JE, Hersman, MN, Goss, CW & **Ziegler, DA**. (1997). How predictive are descriptive statistics of alcohol-related behaviors? Poster presented at the national meeting of the American Psychological Association.
- Freeman, JE, Pollard, JW, Hersman, MN, Goss, CW & **Ziegler, DA**. (1998). Attribution of the consequences of drug and alcohol use. Poster presented at the national meeting of the American Psychological Association.
- Ziegler, DA**, Freeman, JE, & Pollard, JW. (2000). Weeknight drinking: A strong predictor of problematic alcohol use. Poster presented at the national meeting of the American Psychological Association.
- Freeman, JE, **Ziegler, DA**, & Pollard, JW. (2000). Enrollment in Thursday morning classes and campus binge drinking. Poster presented at the national meeting of the American Psychological Association.