

CURRICULUM VITAE

Rajesh K. Kana, Ph.D.

Address: Department of Psychology
University of Alabama
Gordon Palmer Hall, Room 383
745 Hackberry Ln, Tuscaloosa, AL 35401

email: rkkana@ua.edu
Phone: (205) 348 1391
Fax: (205) 348 8648

Academic Appointments

Primary:

2019-present Professor, Department of Psychology, University of Alabama (UA)
2013-2019 Associate Professor, Department of Psychology, University of Alabama at Birmingham (UAB)
2007-2013 Assistant Professor, UAB Department of Psychology

Secondary and Other:

2021-present Director, Neuroscience Theme, UA
2020-present Director, Center for Innovative Research in Autism (CIRA), UA
2019-present Alabama Life Research Institute Faculty Fellow
2019-present Adjunct Professor, Department of Psychology, UAB
2007-2019 Associate Professor, Department of Neurobiology, UAB
2010-2019 Associate Professor, Department of Mechanical Engineering, UAB
2009-2019 Associate Scientist, Civitan International Research Center, UAB
2014-2019 Member, UAB Center for Info Assurance & Joint Forensics Research
2013-2019 Co-Director, UAB Undergraduate Neuroscience Program

Previous Academic Appointments

2003-2007 Carnegie Mellon University, Pittsburgh, PA
Postdoctoral Research Fellow (Cognitive Neuroscience, Autism, fMRI)

1998-2003 Indian Institute of Technology (IIT), Delhi, India
Graduate Research Assistant (Humanities & Social Sciences)
Dissertation: A Psycholinguistic Study of Verbal Communication in Autism

1999-2002 Action for Autism, New Delhi, India
National Center & School for Individuals with Autism
Visiting research scientist

2001 Neuropsychiatric Institute, University of California, Los Angeles
William Fulbright Pre-doctoral Research Fellow

2000 Max Planck Institute of Psycholinguistics, Netherlands
Research Assistant (Child Language Acquisition Project)

Education

INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Calicut University, Kerala, India	B.Sc.	1992	Chemistry
Mysore University, Mysore, India	B.Ed.	1994	Education
Regional Institute of Education, Mysore, India	M.Ed.	1995	Education
Annamalai University, Tamilnadu, India	M.A.	1998	Psychology
Indian Institute of Technology, Delhi, India	Ph.D.	2003	Humanities & Social Sciences
Carnegie Mellon University, Pittsburgh, PA	Postdoc	2003-07	Neuroscience

Professional Training:

- Autism Diagnostic Observation Schedule (ADOS-2)
Clinical Training (UA/UAB Virtual Training) November 2020
- Applied Behavior Analysis (ABA-I)
Pennsylvania State University December 2005
- Autism Diagnostic Observation Schedule (ADOS) Training
Autism and Communication Disorders Center
University of Michigan, Ann Arbor, MI June 2004
- Picture Exchange Communication System (PECS) Training
Erie, PA August 2005

Research Interests:

- Cognitive and Social Neuroscience
- Brain connectivity, Theory-of-Mind, and Cognition in Autism Spectrum Disorders
- Brain, Language and Communication: Pragmatics
- Developmental and Clinical Neuroscience
- Multimodal Neuroimaging (fMRI, Diffusion Imaging, MR Spectroscopy)
- Translational Neuroscience

Honors and Awards

- | | |
|------|---|
| 2021 | University of Alabama President's Faculty Research Award
Office of Research & Economic Development |
| 2021 | UA Department of Psychology Distinguished Faculty Research Award
Graduate Honors Day |
| 2018 | UAB Faculty Fellows in Undergraduate Research Program
Office of Service Learning & Undergraduate Research |
| 2018 | Dean's Award for Excellence in Teaching
UAB College of Arts & Sciences |
| 2017 | Dean's Award for Excellence in Mentorship
UAB Graduate School |

- 2016 **Outstanding Professor Award**
UAB Early Medical School Acceptance Program
- 2014 **Distinguished Paper Award**
Title: Neural Signatures of User-centered Computer Security: an fMRI study of Phishing and Malware Warnings
Source: Network and Distributed System Security (NDSS) Conference
- 2008 **McNulty Civitan Distinguished Scientist Award**
Source: The Chesapeake District Civitan Foundation
Award: \$50,000 for research on developmental disorders
- 2005 **Young Investigator Award**
Source: Cure Autism Now Foundation, Los Angeles, USA.
Funding: \$60,000 for 2 years
- 2001 **William Fulbright Pre-doctoral Fellowship**
Source: The United States Educational Foundation in India (USEFI)
Pre-doctoral Research at UCLA for 6 months.
- 1997 **UGC Lectureship and Junior Research Fellowship**
Source: University Grants Commission, India
- 1995 **State level Second Rank**, Mysore University (Regional Institute of Education)
Master's in Education
- 1994 **State level First Rank** (Two Gold Medals), Mysore University
Bachelor of Education

Research Support

- 2018-2023 NIH R01 DC016303-01A1
Title: *The Efficacy of a Visualizing Reading Intervention on Improving the Brain's Reading Network in Children with Autism*
Role: Principal Investigator (effort = 2.7 academic months, 3 summer months);
Agency: NIDCD; Funding Amount: \$3.08 million;
Status: Funded
- 2020-2022 (FAIN): 201920
Title: *MRI: Acquisition of a 3.0 Tesla Magnetic Resonance Imaging Scanner*
Role: Principal Investigator (effort = 2.7 academic months, 3 summer months)
Agency: National Science Foundation
Funding Amount: \$1,605, 115
Status: Funded
- 2020-2022 John Templeton Foundation
Title: *Joshua May- Academic Cross-Training Fellowship*
Role: Mentor
Funding Amount: \$207,088 USD
Status: Funded

- 01/12-05/31/2021 University of Alabama ASSURE Grant
 Title: Developmental Predictors of the Fusiform Gyrus Cortical Morphology
 Role: Mentor (Student: Lauren Duvall)
 Status: Funded; Funding Amount: \$1,000
- 01/12-05/31/2021 University of Alabama ASSURE Grant
 Title: Grey Matter Volume in Theory-of-Mind Network in Autism Spectrum Disorder
 Role: Mentor (Student: McKensie MacGrath)
 Status: Funded; Funding Amount: \$1,000
- 2017-2019 Civitan International Pilot Research Grant
 Title: *Neural Mechanisms of Driving Safety in Young Individuals with Developmental Disabilities*
 Role: Co-PI (effort: 0%); PI: Despina Stavrinou; Funding: \$25,000
- 2018-2019 TL1 Training Grant, Center for Clinical and Translational Sciences, UAB
 Funding agency: *National Center for Advancing Translational Sciences TL1 Training Grant*
 Role: Mentor; PI: Haley Bednarz; Funding: \$23,000 + \$16,000 tuition support
- 2018-2019 Civitan Emerging Scholars Award
 Title: *The Impact of PEERS Social Skills Intervention on the Brain in Autism*
 Role: Mentor; PI: Abbey Herringshaw; Funding: \$25,000
- 2014-2018 UAB Department of Psychology Faculty Funds
 Title: *Examining the Neuroimaging Markers of Autism*
 Role: Principal Investigator (effort: 0%); Funding: \$329,000
- 2016-2018 Civitan Emerging Scholars Award
 Title: *Testing the Impact of PEERS Social Skills Intervention on the Social Brain in Autism*
 Role: Mentor; PI: Melissa Thye; Funding: \$25,000
- 2016-2017 NIH T-32 Training Grant
 Title: *Hemispheric Differences in Language Processing in Autism*
 Role: Mentor; PI: Abbey Herringshaw; Funding: \$28,000
- 2017-2019 Civitan Emerging Scholars Award
 Title: *The Impact of PEERS Social Skills Intervention on Brain Correlated in Autism*
 Role: Mentor; PI: Jose O. Maximo; Funding: \$25,000
- 2017-2018 TL1 Training Grant, Center for Clinical and Translational Sciences, UAB
 Funding agency: *National Center for Advancing Translational Sciences TL1 Training Grant*
 Role: Mentor; PI: Carla Ammons; Funding: \$23,000 + \$16,000 tuition support

- 2012-2016 Lindamood-Bell Learning Processes
Title: Changes in brain functions associated with Visualizing/Verbalizing Intervention in Autism
Role: PI; Funding: \$285,000
- 2009-2015 Chesapeake District Civitan Foundation
McNulty-Civitan Scientist Award
Role: PI; Funding: \$50,000
- 2009-2011 UAB Clinical & Translational Science Pilot Research Award
Title: A Diffusion Imaging Investigation of Cortical Disconnection in Autism
Role: Principal Investigator; Funding: \$60,000 for one year
- 2009-2011 UAB Faculty Development Grant Program
Role: PI;
Funding: \$10,000 for one year
Title: "Not seeing the forest for the trees": Local, Global, and Neural Aspects of Information Processing in Children with Autism
- 2018-2023 NIH R01 Mechanism
Title: Prefrontal-Limbic Circuitry in Socioaffective Processing in Autism Spectrum Disorders
Role: Principal Investigator (effort = 2.7 academic months, 3 summer months)
Agency: NIMH; Funding Amount: \$2.8 million; Status: Not funded
- 2018-2023 National Science Foundation
Title: Neuroscience Meets Computer Science: An Interdisciplinary Traineeship Program to Advance Research in Medical and Human-Behavioral Sciences
Role: Co-Principal Investigator; PI: Dr. Nitesh Saxena
Agency: NSF; Status: Not funded
- 2017-2020 National Science Foundation
Title: Neural and Computational Basis of Complementary Semantic Systems
Role: Co-Principal Investigator; PI: Dr. Daniel Mirman
Agency: NSF; Funding Amount: \$824,526.00; Status: Not funded
- 2018-2019 UAB CAS Interdisciplinary Innovation Award
Title: An (Counter-intuitive) Advantage for Autism in Certain Deception Detection Tasks: Two Proof of Concept Experiments
Role: Co-PI; PI: Dr. Timothy Levine;
Funding Amount: \$30,000; Status: Not funded

Research Support: Pending

- 2021-2026 National Institute of Mental Health (NIMH)
Title: A Neurobiological Framework of Emotion Dysregulation to Predict Comorbidity among Adolescents with Autism
Role: Co-PI

Agency: NIMH
Funding Amount: \$3,503,374

- 2021-2024 Patient Centered Outcomes Research Institute (PCORI)
Title: *A Multilevel Comparative Efficacy Study of Social Skills Interventions in Autism Spectrum Disorder*
Role: PI
Funding Amount: \$3.0 million
- 2021-2026 National Institute of Health FIRST Program
Title: Inclusive Excellence at the University of Alabama: UA-FIRST
Role: Co-PI (MPI: Caldwell, Newman, Kana)
- 2022-2025 NIH/NINDS
Title: Undergraduate Summer Neuroscience Research Opportunities
Role: Co-PI (PI: Soylu)
- 2021-2024 National Science Foundation
Title: *NCS-FO: Misinformation Susceptibility of Internet Users with and without Autism: A Neurocognitive Investigation*
Role: Co-PI
Agency: NSF; Funding Amount: \$569,253
- 2020-2025 Institute of Education Sciences
Title: Exploring Predictors and Outcomes of Licensure for Students with Autism
Role: Consultant (PI: Dr. Despina Stavrinou)
Agency: Institute of Education Services
- 2020 University of Alabama College of Arts & Sciences
Title: *Autism Spectrum Disorders Diagnostic Training Workshop*
Role: PI
Agency: College Academy for Research, Scholarship, and Creative Activity (CARSCA)
Funding Amount: \$6,000
- 2020-2021 University of Alabama
Title: The Role of pSTS-OFC Functional Connectivity in Social Skills Intervention Outcomes in Children with ASD
Role: Co-PI
Agency: Alabama Life Research Institute (ALRI) Pilot Grant
Funding Amount: \$30,000

Peer-Reviewed Publications (h-index = 35)

1. Loomba, N.L., Beckerson, M.E., Ammons, C.J., Maximo, J.O., & Kana, R.K. (2021). Corpus Callosum Size and Homotopic Connectivity in Autism Spectrum Disorder. *Psychiatry Research: Neuroimaging*. May 12;313:111301

2. Bednarz, H.M., **Kana, R.K.**, Svancara, A.M., Sherrod, G.M., Stavrinou, D. (2021). Neuropsychological predictors of driving hazard detection in autism spectrum disorder and ADHD. *Child Neuropsychology*. Apr 21:1-31.
3. Maximo, J. O., Nelson, C.M., & **Kana, R.K.** (2021). Unrest while Resting: Brain Entropy in Autism Spectrum Disorder. *Brain Research*. July 1; 1762:147435.
4. Bednarz, H.M., Stavrinou, D., Svancara, A.M., Sherrod, G.M., Deshpande, H.D., & **Kana, R.K.** (2021). Behind the wheels with autism and ADHD: Brain networks involved in driving hazard detection. *Traffic Psychology & Behavior*, 77(2): 274-292.
5. Ammons, C.J., Winslett, M.E., & **Kana, R.K.** (2021). Neural responses to viewing human faces in autism spectrum disorder: a quantitative meta-analysis of two decades of research. *Neuropsychologia*. Nov 27; 150:107694.
6. Ammons, C.J., Winslett, M.E., Bice, J., Patel, P., May, K.E., & **Kana, R.K.** (2021). The mid-fusiform sulcus in autism spectrum disorder: establishing a novel anatomical landmark related to face processing. *Autism Research*. 14(1):53-64.
7. May, K.E., & **Kana, R.K.** (2020). Frontoparietal network in executive functioning in autism spectrum disorder. *Autism Research*. 13(10): 1762-1777.
8. **Kana, R.K.**, Hudac, C.H., Tomeny, T.S., O'Kelley, S.E., Barber, A.B., White, S.W. (2020). Impact of COVID-19 on Autism Research: Reflections from Alabama. In Amaral D.G., & de Vries, P.J. (2020). COVID-19 and Autism Research: Perspectives from Around the Globe. *Autism Research*, 13: 844-869.
9. Bednarz, H.M., Trapani, J.A., & **Kana, R.K.** (2020). Metacognition and behavioral regulation predict distinct aspects of social functioning in autism spectrum disorder. *Child Neuropsychology*, April 7:1-29.
10. Seghatol-Eslami, V., Maximo, J.O., Ammons, C.J., Libero, L.E., **Kana, R.K.** (2020). Hyperconnectivity of social brain networks in autism during an action-intention task. *Neuropsychologia*, 137: 107303.
11. McDonough, I., Letang, S., Erwin, H., **Kana, R.K.** (2019). Evidence for Maintained Post-Encoding Memory Consolidation across the Adult Lifespan Revealed by Network Complexity. *Entropy*, 21(11), 1072.
12. **Kana, R.K.**, Hudac, C.M., White, S.W. (2019). Developmental Considerations of Comorbidity in Autism Spectrum Disorder: the need for science across multiple units of analysis. *Biological Psychiatry: CNI*, 4(12):1016-1017.
13. Moon, S.J., Hwang, J.S., **Kana, R.K.**, Torous, J., Kim, J.W. (2019). Diagnostic test accuracy for use of machine learning in diagnosis of autism spectrum disorder: A Systematic Review and Meta-Analysis. *Journal of Medical Internet Research*, Dec 20; 6(12):e14108. doi: 10.2196/14108.

14. Bednarz, H.M., & **Kana, R.K.** (2019). Patterns of cerebellar connectivity with intrinsic connectivity networks in autism spectrum disorders. *Journal of Autism Spectrum Disorders*, 49(11):4498-4514. doi: 10.1007/s10803-019-04168-w.
15. Amaral, D.G., Anderson, G.M.,.....**Kana, R.K.**, et al. (2019). Gaps in Current Autism Research: The thoughts of the Autism Research Editorial Board and Associate Editors. *Autism Research*, 12(5):700-714.
16. Maximo, J.O., **Kana, R.K.** (2019). Aberrant “deep connectivity” in autism: a cortico-subcortical functional magnetic resonance imaging study. *Autism Research*, 12(3), 384-400.
17. Bednarz, H.M., & **Kana, R.K.** (2018). Advances, Challenges, and Promises in Pediatric Neuroimaging of Neurodevelopmental Disorders. *Neuroscience and Biobehavioral Reviews*, Jul; 90:50-69. doi: 10.1016/j.neubiorev.2018.03.025.
18. Herringshaw, A. J., Kumar, S.L., Rody, K. N., & Kana, R. K. (2018). Neural Correlates of Social Perception in Children with Autism: Local versus Global Preferences. *Neuroscience*, 15 (395), 49-59.
19. Robinson, J., Erath, S., **Kana, R.K.**, Sheikh, M. (2018). What a difference a night makes: Neurophysiological differences in the adolescent brain following a single night of restricted sleep - A 7T fMRI study. *Developmental Cognitive Neuroscience*. Jun, 31:1-10. doi: 10.1016/j.dcn.2018.03.012.
20. Thye, M.D., Ammons, C.J., Murdaugh, D. L., **Kana, R.K.** (2018). Differential recruitment of Theory of Mind Brain Network across three tasks: an independent component analysis. *Behavioral Brain Research*, 347:385-393.
21. Thye, M.D., Murdaugh, D.L., & **Kana, R.K.** (2018). Brain mechanisms underlying Reading the Mind in the Eyes, Voice, and Actions. *Neuroscience*, 374: 172-186. doi: 10.1016/j.neuroscience.2018.01.045.
22. Ammons, C.J., Doss, C.F., Bala, D., & **Kana, R.K.** (2018). Brain responses underlying Anthropomorphism, Agency, and Social Attribution in Autism Spectrum Disorder. *The Open Neuroimaging Journal*, 12, 3-00.
23. Thye, M.D., & **Kana, R.K.** (in press). Neurobiology of Autism. *Encyclopedia of Health Psychology*. Wiley.
24. Wadsworth, H.M., Maximo, J.O., Donnelly, R.J., & **Kana, R.K.** (2017). Action simulation and mirroring in children with autism spectrum disorders. *Behavioral Brain Research*, 13; 341: 1-8.
25. Maximo, J.O., Murdaugh, D.L., O’Kelley, S.E., **Kana, R.K.** (2017). Changes in Intrinsic Local Functional Connectivity in Children with Autism Following a Visualizing/Verbalizing Reading Intervention. *Brain and Language*. 175:11-17.

26. Uddin, L.Q., Dajani, D., Voorhies, W., Bednarz, H., **Kana, R.K.** (2017). Progress and Roadblocks in the search for brain-based biomarkers of autism and attention-deficit/hyperactivity disorder. *Translational Psychiatry*. 7, doi: 10.1038/tp.2017.164.
27. Murdaugh, D.L., Maximo, J.O., Cordes, C.E., O'Kelley, S., **Kana, R.K.** (2017). From word reading to multisentence comprehension: Improvements in brain activity in children with autism after reading intervention. *Neuroimage: Clinical*. 16: 303-312.
28. Thye, M.D., Bednarz, H., Herringshaw, A., Sartin, E., **Kana, R.K.** (2017). The Impact of Atypical Sensory Processing on Social Impairments in Autism Spectrum Disorders. *Developmental Cognitive Neuroscience*. doi: 10.1016/j.dcn.2017.04.010.
29. **Kana, R.K.**, Sartin, E.B., Stevens Jr, C.E., Deshpande, H.D., Klinger, M., Klinger, L.G. (2017). Neural Networks Underlying Language and Social Cognition during Self-Other Processing in Autism Spectrum Disorders. *Neuropsychologia*. 102:116-123.
30. Fleming Beattie, J., Martin, R.C., **Kana, R.K.**, Deshpande, H., Lee, S., Cure, J., Ver Hoef, L. (2017). Hippocampal Dentation: structural variation and its association with episodic memory in healthy adults. *Neuropsychologia*, 101:65-75.
31. Bednarz, H.M., Maximo, J.O., Murdaugh, D.L., O'Kelley, S., **Kana, R.K.** (2017). "Decoding versus Comprehension": brain responses underlying reading comprehension in children with autism. *Brain and Language*, 169, 39-47.
32. Wadsworth, H.M., Maximo, J.O., Lemelman, A.R., Clayton, K., Sivaraman, S., Deshpande, H.D., Ver Hoef, L., **Kana, R. K.** (2017). The Action Imitation Network and Motor Imitation in Children and Adolescents with Autism Research. *Neuroscience*. Feb 20; 343:147-156.
33. Libero, L.E., Burge, W., Deshpande, H.D., Pestilli, F., **Kana, R.K.** (2016). White Matter Diffusion of Major Fiber Tracts Implicated in Autism Spectrum Disorder. *Brain Connectivity*. Nov; 6(9):691-699.
34. Patriquin, M.A., DeRamus, T., Libero, L.E., Laird, A., **Kana, R.K.** (2016). Neuroanatomical and Neurofunctional Markers of Social Cognition in Autism Spectrum Disorder. *Human Brain Mapping*. Nov;37(11):3957-3978.
35. Maximo, J.O., Neupane, A., Saxena, N., Joseph, R.M., & **Kana, R.K.** (2016). Task-dependent Changes in Frontal-Parietal Activation and Connectivity during Visual Search. *Brain Connectivity*, 6(4):335-44.
36. Herringshaw, A.J., Ammons, C.J., DeRamus, T.P., & **Kana, R.K.** (2016). Hemispheric Differences in Language Processing in Autism Spectrum Disorders: A Meta-Analysis of Neuroimaging Studies. *Autism Research*. doi: 10.1002/aur.1599
37. **Kana, R.K.**, Maximo, J.O., Williams, D.L., Keller, T.A., Schipul, S.E., Cherkassky, V.L., Minshew, N.J., and Just, M.A. (2015). Aberrant functioning of the theory-of-mind network in children and adolescents with autism. *Molecular Autism*, 6 (59).

38. Libero, L.E., Reid, M.A., White, D.M., Salibi, N., Lahti, A.C., **Kana, R. K.** (2016). Biochemistry of the Cingulate Cortex in Autism: an MR Spectroscopy Study. *Autism Research*. Jun; 9(6):643-57.
39. **Kana, R.K.**, Ammons, C.J., Doss, C.F., Waite, M.E., Kana, B., Herringshaw, A.J., Ver Hoef, L. (2015). Language and motor cortex response to comprehending accidental and intentional action sentences. *Neuropsychologia*, 77:158-64.
40. Murdaugh, D.L., Maximo, J.O., **Kana, R.K.** (2015). Changes in Intrinsic Connectivity of the Brain's Reading Network following intervention in Children with Autism. *Human Brain Mapping*, Jun 9. doi: 10.1002/hbm.22821.
41. Murdaugh, D.L., Deshpande, H.D., **Kana, R.K.** (2015). The Impact of Reading Intervention on Brain Responses Underlying Language in Children with Autism. *Autism Research*, May 25. doi: 10.1002/aur.1503.
42. **Kana, R.K.**, Patriquin, M.A., Black, B.S., Channell, M.M., Wicker, B. (2015). Altered Medial Frontal and Superior Temporal Response to Implicit Processing of Emotions in Autism. *Autism Research*, 9(1):55-66. doi: 10.1002/aur.1496.
43. Libero, L.E., DeRamus, T.P., Lahti, A.C., Deshpande, G., **Kana, R.K.** (2015). Multimodal Neuroimaging based Classification of Autism Spectrum Disorder using Anatomical, Neurochemical, and White matter correlates. *Cortex*, (66), 46-59.
44. DeRamus, T.P., & **Kana, R.K.** (2015). Anatomical Likelihood Estimation Meta-analysis of Grey and White matter Anomalies in Autism Spectrum Disorders. *Neuroimage: Clinical*, 7, 525-536.
45. Travers, B.G., Klinger, M.R., Klinger, L.G., Klein, C.K., & **Kana, R.K.** (2015). Motor Learning in Persons with Autism Spectrum Disorder: Group Differences in Superior Parietal Lobule Related to Learning and Repetitive Behaviors. *Autism Research*, 8(1), 38-51.
46. Gregory, A.M., Nenert, R., Allendorfer, J.B., Martin, R., **Kana, R.K.**, Szaflarski, J.P. (2015). The Effect of Medial Temporal Lobe Epilepsy on Visual Memory Encoding. *Epilepsy and Behavior*.
47. Libero, L.E., Maximo, J.O., Deshpande, H.D., Klinger, L.G., Klinger, M.R., & **Kana, R.K.** (2014). Recruitment of the Mirror Neuron System in processing Action Intentions in Autism. *Molecular Autism*. 5:50 (14 October 2014).
48. DeRamus, T.P., Black, B.C., Pennick, M.R., & **Kana, R.K.** (2014). Enhanced Functional Connectivity in Dorsal-Ventral Visual Streams in Children with Autism. *Journal of Neurodevelopmental Disorders*. 6(1):37. doi: 10.1186/1866-1955-6-37.
49. Libero, L.E., DeRamus, T.P., Deshpande, H.D., & **Kana, R.K.** (2014). Surface-based morphometry of the cortical architecture of autism spectrum disorders: volume,

thickness, area, and gyrification. *Neuropsychologia*. 62:1-10. doi: 10.1016/j.neuropsychologia.2014.07.001

50. **Kana, R.K.**, Uddin, L.Q., Kenet, T., Chugani, D., Muller, R.A. (2014). Brain connectivity in autism. *Frontiers in Human Neuroscience*, Jun 2; 8:349.
51. Libero, L.E., Stevens, C.E Jr., & **Kana, R.K.** (2014). Attribution of emotions to body postures: an independent component analysis study of functional connectivity in autism. *Human Brain Mapping*, 35(10):5204-18. doi: 10.1002/hbm.22544.
52. Murdaugh, D.L., Nadendla, K., & **Kana, R.K.** (2014). Differential Role of Temporoparietal Junction and Medial Prefrontal Cortex in Causal Inference in Autism: an Independent Components Analysis. *Neuroscience Letters*, 568:50-5.
53. Maximo, O.J., Cadena, E., & **Kana, R.K.** (2014). The Implications of Brain Connectivity in the Neuropsychology of Autism. *Neuropsychology Review*, 24(1):16-31.
54. Murdaugh, D.L., Ver Hoef, L.W., & **Kana, R.K.** (2014). Functional brain connectivity in a child with autism with an enlarged cavum septum pellucidum. *Neuropsychiatry*, 4(1), 23-25.
55. **Kana, R.K.**, Libero, L., Hu, C.P., Deshpande, H.D., & Colburn, J. (2014). Functional Brain Networks and White Matter Underlying Theory-of-Mind in Autism. *Social Cognitive and Affective Neuroscience*, 9(1), 98-105.
56. Neupane, A., Saxena, N., Kuruvilla, K., Georgescu, M., & **Kana, R.K.** (2014). Neural Signatures of User-Centered Computer Security: An fMRI study of Phishing and Malware Warnings. *Network and Distributed System Security (NDSS) Proceedings*.
57. **Kana, R.K.**, Liu, Y., Williams, D.L., Keller, T.A., Schipul, S.E., Minshew, N.J., & Just, M.A. (2013). The *Local, Global, and Neural Aspects* of Visuospatial Processing in Autism. *Neuropsychologia*, 51(14), 2995-3003.
58. Deshpande, G., Libero, L.E., Sreenivasan, K.R., Deshpande H.D., and **Kana R. K.** (2013) Identification of neural connectivity signatures of autism using machine learning. *Front. Hum. Neurosci.* 7:670. doi:10.3389/fnhum.2013.00670.
59. Libero, L.E., & **Kana, R.K.** (2013). Advancing Our Understanding of the Brain in Autism: contribution of functional MRI and Diffusion Tensor Imaging. *Imaging in Medicine*, 5(5), 453-465.
60. Wolfe, K.R., Hunter, G.R., Madan-Swain, A., Reddy, A.T., Banos, J., & **Kana, R.K.** (2013). An fMRI Investigation of Working Memory and its Relationship with Cardiorespiratory Fitness in Pediatric Posterior Fossa Tumor Survivors. *Pediatric Blood and Cancer*. 60(4):669-75. doi: 10.1002/pbc.24331.
61. Murdaugh, D., Shinkareva, S.V., Deshpande, H.D., Wang, J., Pennick, M.R., & **Kana, R.K.** (2012). Differential Deactivation during Mentalizing and Classification of Autism

Based on Default Mode Network Connectivity. *PLoS One*, 7(11); doi: 10.1371/journal.pone.0050064. PMCID: 3501481

62. **Kana, R.K.**, Blum, E.R., Ladden, S.L., & Ver Hoef, L. (2012). "How to do things with Words" Neural Mechanisms mediating Semantic Representations of Action Words and Mental State Words. *Neuropsychologia*, 50(14):3403-9.
63. **Kana, R.K.**, Murdaugh, D., Wolfe, K.R., & Kumar, S.L. (2012). Brain Responses Mediating Idiom Comprehension: Gender and Hemispheric Differences. *Brain Research*, Jul 27; 1467:18-26.
64. **Kana, R.K.**, & Travers, B.G. (2012). Neural Substrates of Interpreting Actions and Emotions from Body Postures. *Social Cognitive and Affective Neuroscience*. 7(4):446-56.
65. Wolfe, K.R., Hunter, G.R., Madan-Swain, A., Reddy, A.T., Baños, J., **Kana, R.K.** (2012). Cardiorespiratory Fitness in Survivors of Pediatric Posterior fossa Tumor. *Journal of Pediatric Hematology/Oncology*, 34(6), 222-7.
66. **Kana, R.K.**, & Wadsworth, H.M. (2012). "The Archeologist's Career ended in Ruins": Hemispheric Differences in Pun Comprehension in Autism. *Neuroimage*, 62(1):77-86.
67. **Kana, R.K.**, & Percy, A. (2012). Organization in Autism: Bigger but not Better. *Archives of Neurology*, 69(7):906-907.
68. Pennick, M.R., & **Kana, R.K.** (2012). Specialization and Integration of Brain Responses to Object Recognition and Location Detection. *Brain and Behavior*, 2(1), 6-14.
69. Just, M.A., Keller, T.A., Malave, V.L., **Kana, R.K.**, Varma, S. (2012). Autism as a Neural Systems Disorder: A Theory of Frontal-Posterior Underconnectivity. *Neuroscience and Biobehavioral Reviews*, 36(4):1292-313.
70. Wolfe, K.R., Madan-Swain, A., **Kana, R.K.** (2012). Executive dysfunction in pediatric posterior fossa tumor survivors: a systematic literature review of neurocognitive deficits and interventions. *Developmental Neuropsychology*, 37(2):153-75.
71. **Kana, R.K.**, Klein, C.K., Klinger, L.G., Travers, B.G., & Klinger, M.R. (2012). Neural Representations of Self versus Other: lessons from autism. Invited Chapter in Just M.A., & Pelphrey, K. (Eds.). "Development and Brain Systems in Autism". Psychology Press.
72. Just, M.A., Keller, T.A., & **Kana, R.K.** (2012). A theory of autism based on frontal-posterior underconnectivity. Invited Chapter in Just M.A., & Pelphrey, K. (Eds.). "Development and Brain Systems in Autism". Psychology Press.
73. **Kana, R.K.** & Doss, C. (2013). Cortical Language Areas. In: Volkmar, F.E. (Ed.). *The Encyclopedia of Autism Spectrum Disorders*. NY: Springer, pp 811-817.

74. **Kana, R.K.** (2012). Auditory Cortex. In: Volkmar, F.E. (Ed.). *The Encyclopedia of Autism Spectrum Disorders*. NY: Springer.
75. **Kana, R.K.**, Libero, L.E., & Moore, M.S. (2011). Disrupted Cortical Connectivity Theory as an Explanatory Model for Autism Spectrum Disorders. *Physics of Life Reviews*, 8(4):410-37.
76. **Kana, R.K.**, Murdaugh, D.L., Libero, L.E., Pennick, M.R., Wadsworth, H.M., Deshpande, H.D., & Hu, C.P. (2011). Probing the Brain in Autism using fMRI and Diffusion Tensor Imaging. *Journal of Visualized Experiments*, Sep 12(55). pii: 3178. doi: 10.3791/3178.
77. Wadsworth, H.M., & **Kana, R.K.** (2011). Brain Mechanisms of Perceiving Tools and Imagining Tool Use Acts: a functional MRI Study. *Neuropsychologia*, 49(7):1863-9.
78. **Kana, R.K.**, Wadsworth, H.W., & Travers, B.G. (2011). A Systems Level Analysis of the Mirror Neuron Hypothesis and Imitation Impairments in Autism. *Neuroscience & Biobehavioral Reviews*, 35, 894-902.
79. **Kana, R.K.**, & Just, M.A. (2011). Autism as a disorder of functional brain connectivity. Invited Chapter in Amaral, D.G., Geschwind, D., & Dawson, G. (Eds.). *"Handbook of Autism Spectrum Disorders"*. New York: Oxford University Press.
80. **Kana, R.K.** (2011). Moral Judgments. In Goldstein, S., & Naglieri, J. (Eds.). *Encyclopedia of Child Behavior and Development*. NY: Springer.
81. Damarla, S.R., Keller, T.A., **Kana, R.K.**, Cherkassky, V.L., Williams, D.L., Minshew, N.J., & Just, M.A. (2010). Cortical underconnectivity coupled with preserved visuospatial cognition in autism: evidence from fMRI study of an embedded figures task. *Autism Research*, 3(5), 273-9.
82. **Kana, R.K.**, Keller, T.A., Cherkassky, V.L., Minshew, N.J., and Just, M.A. (2009). Atypical Frontal-Posterior Synchronization of Theory of Mind regions in autism during mental state attribution. *Social Neuroscience*, Jul 3, 1-18.
83. Kumar, S.L., & **Kana, R.K.** (2009). Cognitive Abilities and Cortical Activity: a functional MRI investigation of figurative language comprehension. *Inquiro*, 3, 82-84.
84. Koshino, H., **Kana, R.K.**, Cherkassky, V.L., Keller, T.A., Minshew, N.J., & Just, M.A. (2008). fMRI investigation of working memory for faces in autism: visual coding and underconnectivity with frontal areas. *Cerebral Cortex*, 18, 2: 289-300.
85. Mason, R.A., Williams, D.L., **Kana, R.K.**, Minshew, N.J., & Just, M.A. (2008). Theory of Mind disruption and recruitment of the right hemisphere during narrative comprehension in autism. *Neuropsychologia*, 46, 1: 269-80.
86. **Kana, R.K.**, Keller, T.A., Minshew, N.J., & Just, M.A. (2007). Inhibitory Control in high functioning autism: decreased activation and underconnectivity in inhibition networks. *Biological Psychiatry*, 62, 198-206.

87. Keller, T.A., **Kana, R.K.**, & Just, M.A. (2007). Developmental changes in the structural integrity of the white matter in autism. *Neuroreport*, 18, 23-27.
88. **Kana, R.K.**, Keller, T.A., Cherkassky, V.L., Minshew, N.J., and Just, M.A. (2006). Sentence Comprehension in Autism: thinking in pictures with decreased functional connectivity in high functioning autism. *Brain*, 129, 9: 2484-2493.
89. Just MA, Cherkassky VL, Keller TA, Kana RK, Minshew NJ. (2007). Functional and anatomical cortical underconnectivity in autism: Evidence from an fMRI study of an executive function task and corpus callosum morphometry. *Cerebral Cortex*; 17(4):951-61. PMID: 16772313; PMCID: 4500121.
90. Cherkassky, V.L., **Kana, R.K.**, Keller, T.A., & Just, M.A. (2006). Functional connectivity in a baseline resting state network in autism. *Neuroreport*, 17, 16: 1687-1690.
91. **Kana R.K.** (2002). Self and Intersubjectivity in Autism: directions in research. *Asia Pacific Disability Rehabilitation Journal*, July, 95-105.

Manuscripts under Review

1. **Kana, R.K.** (Ed.) (under review). The Neuroscience of Autism. Book to be published in Summer 2021 by Elsevier Publications.
2. Leach, J., Edwards, E., **Kana, R.K.**, Visscher, K., Nengjun Yi, Aban, I. (under review). Spike-and-Slab Elastic Net as a Classification Tool in Alzheimer's Disease, *Statistics in Medicine*.
3. Fleming Beattie, J., Martin, R.C., Thompson, M.D., Cook III, E.W., **Kana, R.K.**, Jacobs, R.Q., Correya, T.A., Ver Hoef, L.W. (under review). Hippocampal Dentation and Verbal Memory in healthy children and adolescents: a cross-sectional study.
4. Fleming Beattie, J., Martin, R.C., Cook III, E.W., Thompson, M.D., **Kana, R.K.**, Jacobs, R.Q., Correya, T.A., Loomba, N., Ver Hoef, L.W. (under review). Development of hippocampal dentation across childhood and adolescence: longitudinal study of healthy children using the NIH Pediatric Data Repository.
5. Tomeny, T.E., Hudac, C.M., Malaia, E., Morett, L., Tomeny, K.R., Watkins, L., & **Kana, R.K.** (under review). Serving individuals with autism spectrum disorder in the age of COVID-19: special considerations for rural and underserved families. *Research in Developmental Disabilities*.
6. Svancara, A.M., **Kana, R.K.**, Bednarz, H., Sherrod, G., Visscher, K., McManus, B., Stavrinou, D. (under review). Time and time-to-collision judgments among young drivers with developmental disabilities. *Journal of Autism and Developmental Disorders*.

7. Bednarz, H.M., Stavrinou, D., Svancara, A.M., Sherrod, G.M., Deshpande, H.D., & Kana, R.K. (under review). Executive Function Brain Network Activation predicts Driving Hazard Detection in ADHD. *Brain Topography*.

Conference Presentations

1. Duvall, L.E., & Kana, R.K. (2021). Developmental Predictors of the Fusiform Gyrus Cortical Morphology. Poster to be presented at the International Society for Autism Research (INSAR) Annual Meeting.
2. Beckerson, M.E., Loomba, N., Ammons, C., & Kana, R.K. (2021). Corpus callosum structure and inter-hemispheric functional connectivity in autism spectrum disorder. Poster to be presented at the International Society for Autism Research (INSAR) Annual Meeting.
3. Sherrod, G.M., Kana, R.K., McManus, B., Bednarz, H.M., Svancara, A.M., Pawar, P.M., & Stavrinou, D. (2021). Preliminary evidence of dynamic control differences in curve negotiation in drivers with and without autism spectrum disorder. Poster to be presented at the International Society for Autism Research (INSAR) Annual Meeting.
4. Svancara, A., Kana, R.K., Bednarz, H., Sherrod, G., Visscher, K., & Stavrinou, D. (2021). Time-to-Collision Estimations among Drivers with Developmental Disabilities: Learning Effects and Cognitive Factors. Poster to be presented at the Annual Meeting of the Transportation Research Board.
5. Bednarz, H.M., Kana, R.K., Rajpari, I., Sherrod, G.M., Svancara, A.M., & Stavrinou, D. (2021). Symptoms of Inattention and Driving Difficulties in Young Drivers with ADHD. Poster to be presented at the International Neuropsychological Society Annual Meeting.
6. Trapani, J., Levine, T., Biasini, F., O'Kelley, S.E., & Kana, R.K. (2021). Neuropsychological Mechanisms Underlying Deception Detection in Autism Spectrum Disorder. Poster to be presented at the International Neuropsychological Society Annual Meeting.
7. Beckerson, M.E., Loomba, N., Ammons, C.J., & Kana, R.K. (2021). Corpus callosum morphology and homotopic functional connectivity in autism spectrum disorder. Poster to be presented at the International Neuropsychological Society Annual Meeting.
8. Trapani, J., Levine, T., Biasini, F., O'Kelley, S., & Kana, R.K. (2021). Neuropsychological Mechanisms underlying Deception Detection in Autism Spectrum Disorder. To be presented at the International Neuropsychological Society Annual Meeting, San Diego, California.
9. Bednarz, H.M., Kana, R.K., Rajpari, I., Sherrod, G.M., Svancara, A.M., Stavrinou, D. (2021). Symptoms of Inattention and Driving Difficulties in Young Drivers with ADHD.

To be presented at the International Neuropsychological Society Annual Meeting, San Diego, California.

10. Svancara, A.M., Kana, R.K., Bednarz, H., Sherrod, G., Visscher, K., McManus, B., Stavrinos, D. (2021). Time and time-to-collision estimations among drivers with developmental disabilities: learning effects and cognitive factors. To be presented at the Transportation Research Board Annual Conference, Washington D.C.
11. Beckerson, M.E., Loomba, N., Ammons, C.J., & Kana, R.K. (2021). Corpus callosum morphology and homotopic functional connectivity in autism spectrum disorder. To be presented at the International Neuropsychological Society Annual Meeting, San Diego, California.
12. May, K.E., & Kana, R.K. (2020). Neurofunctional indices of Executive Functioning in Autism Spectrum Disorder. Poster presented at the Southeastern Universities Graduate Research Symposium, April 2020.
13. Kana, R.K., Trapani, J.A., Deshpande, H.D., O'Kelley, S.E. (2020). A Randomized Controlled Trial of Reading Intervention and the Brain in Children with Autism Spectrum Disorder. Poster presented at the International Society for Autism Research Annual Meeting, Seattle, WA, May 6-9, 2020.
14. May, K., & Kana, R.K. (2020). Differences in Activity of the Brain's Executive Network in Autism Spectrum Disorder. Presented at the International Society for Autism Research (INSAR) Annual Meeting, May, 2020, Seattle, WA.
15. Trapani, J., Levine, T., Martino, M., & Kana, R.K. (2020). Neuropsychological Mechanisms underlying Deception Detection in Autism Spectrum Disorder. Poster presented at the International Society for Autism Research (INSAR) Annual Meeting, May, 2020, Seattle, WA.
16. Bednarz, H.M., & Kana, R.K. (2019). Metacognition and Behavior regulation associated with distinct connectivity patterns in autism spectrum disorder. Poster presented at the National Academy of Neuropsychology Annual Conference, November 13-16, San Diego, CA.
17. Kana, R.K., Seghatol-Eslami, V., Ammons, C. A. (2019). Fusiform Anatomy and Connectivity Profiles of 3 Social Brain Networks in Autism Spectrum Disorder. Poster presented at the International Human Brain Mapping Society Annual Meeting, June 9-13, Rome, Italy.
18. Bednarz, H.M. & Kana, R.K. (2018). The relationship between executive functioning and social responsiveness in autism spectrum disorder. Poster to be presented at the National Academy of Neuropsychology Conference, New Orleans, October, 2018.
19. Ammons, C. & Kana, R. (2018, May). Neural Correlates of Face Processing in Autism Spectrum Disorder: A Quantitative Meta-analysis of Current Literature & Future

Directions. Poster presented at the Association of Clinical and Translational Sciences Annual Conference, Washington, DC.

20. Kana, R.K., & Maximo, J.O. (2018). Impact of psychiatric comorbidities on brain connectivity in autism spectrum disorders. Poster to be presented at the Organization of Human Brain Mapping Annual Meeting, Singapore, June 2018.
21. Ammons, C.J., Winslett, M.E., & Kana, R.K. (2018). Neural correlates of face processing in autism spectrum disorder: a quantitative meta-analysis of current literature and future directions. Poster presented at the Association for Clinical and Translational Science Annual Meeting, Washington, DC. April, 2018.
22. Trapani, J., Wadsworth, H., Kana, R.K. (2018). Differences in frontal-posterior activity during mental rotation of body-related stimuli in autism spectrum disorders. Poster presented at the 15th International Society for Autism Research (INSAR) Annual Meeting, Rotterdam, Netherlands, May 2018.
23. Maximo, J.O., & Kana, R.K. (2018). Altered cortical-subcortical functional connectivity in autism spectrum disorders. Poster presented at the 15th International Society for Autism Research (ISFAR) Annual Meeting, Rotterdam, Netherlands, May 2018.
24. Seghatol-Eslami, V.C., Ammons, C.J., & Kana, R.K. (2018). Functional Connectivity of the Fusiform Face Area with the Social Brain during Action Perception in Autism. Poster presented at the International Neuropsychological Society Annual Meeting (February, 2018), Washington D.C.
25. Bednarz, H.M. & Kana, R.K. (2018). *The Relationship Between Executive and Social Functioning in Children with Autism Spectrum Disorder*. Oral presentation presented at Alabama Psychological Association Annual Convention, Orange Beach, AL, October 5, 2018.
26. Bednarz, H.M. & Kana, R.K. (2018). *Relationship between cerebellar functional connectivity and symptoms of attention-deficit/hyperactivity disorder*. Poster presented at the Alabama Advanced Imaging Consortium Retreat, Cheaha State Park, AL, July 27, 2018.
27. Bednarz, H.M. & Kana, R.K. (2018). Relationship between cerebellar functional connectivity and symptoms of attention-deficit/hyperactivity disorder. Poster presented at the International Neuropsychological Society Conference, Washington D.C., February 16, 2017.
28. Bednarz, H.M., Lemelman, A.R., Murdaugh, D.L, & Kana, R.K. (2017). Changes in reading comprehension as a result of language intervention in children with autism spectrum disorders. Poster presented at the International Neuropsychological Society Conference, New Orleans, LA, February 2, 2017.

29. Maximo, J.O., Murdaugh, D.L., & Kana, R.K. (2017). Alterations in brain entropy in autism spectrum disorders. Poster presented at the 14th International Meeting for Autism Research (IMFAR). San Francisco, CA. May 10-13th, 2017.
30. Nair, S., Loomba, N., Kana, R.K. (2017). Altered Patterns of Local Connectivity in Autism measured by Regional Homogeneity. Talk presented at the 14th International Meeting for Autism Research (IMFAR). San Francisco, CA. May 10-13th, 2017.
31. Herringshaw, A. J., & Kana, R. K. (2017, May). Variance in Language Abilities in Autism as a Function of Hemispheric Lateralization and Functional Connectivity. Poster presented at the 2017 International Meeting for Autism Research, San Francisco, California.
32. Herringshaw, A. J., Kumar, S. L., & Kana, R. K. (2017, February). Neural Correlates of Social Perception in Children with Autism: Local versus Global Preferences. Poster presented at the 2017 International Neuroscience Society Meeting, New Orleans, Louisiana.
33. Seghatol-Eslami, V. C., Ammons, C.J., & Kana, R. K. (2017). The Topography of Fusiform Face Area Response during Implicit Face Processing in Autism Spectrum Disorder. Poster presented at the Civitan International/Simpson-Ramsey Neurodevelopmental Symposium (April 2017), Birmingham, AL.
34. Seghatol-Eslami, V. C., Ammons, C.J., & Kana, R. K. (2017). The Topography of Fusiform Face Area Response during Implicit Face Processing in Autism Spectrum Disorder. Poster presented at the University of Alabama at Birmingham Department of Psychology John Ost Undergraduate Research Competition (April 2017), Birmingham, AL.
35. Thye, M., & Kana, R.K. (2017). Characterizing the Heterogeneity in Autism Spectrum Disorder Using Brain Connectivity Underlying Social Cognition. Poster presented at the International Meeting for Autism Research (IMFAR), San Francisco, CA, May 2017.
36. Ammons, C. & Kana, R. (2017, May). *Superior Temporal Sulcus Response in Attributing Social Meaning to Actions in Autism Spectrum Disorders*. Poster presented at the International Meeting for Autism Research, San Francisco, CA.
37. Ammons, C., Winslett, M.E., Bice, J., Patel, P., & Kana, R. (2016, April). *Anatomical Features of the Mid Fusiform Sulcus in Autism Spectrum Disorder*. Poster presented at the Simpson Ramsey Neurodevelopmental Symposium, Birmingham, AL.
38. Winslett, M.E., Ammons, C., & Kana, R. (2016, April). *Investigation of Anomalous Findings When Studying the Mid-Fusiform Sulcus in Autism Spectrum Disorders*. Poster presented at the Simpson Ramsey Neurodevelopmental Symposium, Birmingham, AL

39. Bice, J., Ammons, C., Burge, W., DeRamus, T., & Kana, R. (2016, April). *Topographic Mapping of the Primary Visual Cortex in Autism Spectrum Disorder*. Poster presented at the Simpson Ramsey Neurodevelopmental Symposium, Birmingham, AL.
40. Ammons, C., Winslett, M.E., Bice, J., Patel, P., & Kana, R (2016, May). *Structural Features of the Mid Fusiform Sulcus in Autism Spectrum Disorder*. Poster presented at the International Meeting for Autism Research, Baltimore, MD.
41. Ammons, C., & Kana, R (2016, June). *Ventral Temporal Cortex and Face Processing in Autism: Contributions from Investigation of a Novel Morphological Feature*. Paper presented at the Alabama Psychological Association Annual Convention, Orange Beach, AL.
42. Ammons, C., Winslett, M.E., Bice, J., Patel, P., & Kana, R (2016, May). *Structure and Morphometry of the Mid Fusiform Sulcus in Autism Spectrum Disorder*. Poster presented at the Alabama Psychological Association Annual Convention, Orange Beach, AL.
43. Seghatol-Eslami, V. C. & Kana, R. K. (2016). *Sensitivity to Pain in Autism Spectrum Disorders*. Poster presented at the University of Alabama at Birmingham Summer Expo (July 2016), Birmingham, AL.
44. Bednarz, H.M., Deshpande, R., Deshpande, G., & Kana, R.K. (2016). Increased intra-individual neural variability in autism. Presented at the National Academy of Neuropsychology Conference, Seattle, WA, October 20, 2016.
45. Bednarz, H.M. & Kana, R.K. (2016). Patterns of altered cerebro-cerebellar functional connectivity in autism spectrum disorders. Presented at Alabama Psychological Association, Gulf Shores, AL, June 3, 2016.
46. Bednarz, H.M., Maximo, J.O., Murduagh, D.L., & Kana, R.K. (2016). "What is read versus what is understood": brain responses underlying reading comprehension in children with autism. Presented at the International Meeting for Autism Research, Baltimore, MD, May 12, 2016.
47. Bednarz, H.M., Maximo, J.O., Murduagh, D.L., & Kana, R.K. (2016). "What is read versus what is understood": brain responses underlying reading comprehension in children with autism. Presented at the Simpson-Ramsey Symposium, UAB, Birmingham, AL, April 21, 2016.
48. Herringshaw, A. J., Kumar, S. L., & Kana, R. K. (2016, May). Differential Engagement of Prefrontal Cortex Underlies Local Bias in Children with Autism. Poster presented at the 2016 International Meeting for Autism Research Conference, Baltimore, Maryland.
49. Herringshaw, A. J., Kumar, S. L., & Kana, R. K. (2016, April). Differential Engagement of Prefrontal Cortex Underlies Local Bias in Children with Autism. Paper presented at the 2016 UAB Simpson-Ramsey Neurodevelopmental Symposium, Birmingham, Alabama.

50. Thye, M., Murdaugh D. L., Herringshaw, A. J., & Kana, R. K. (2016, April). Neural Mechanisms Underlying Reading the Mind from the Eyes and Voice. Poster presented at Civitan International/ Simpson-Ramsey Neurodevelopmental Symposium, Birmingham, AL.
51. Thye, M., Murdaugh, D.L., Herringshaw, A.J., & Kana, R.K. (2016). Neural mechanisms Underlying Reading the Mind from the Eyes and Voice. Poster presented at *Civitan International/ Simpson-Ramsey Neurodevelopmental Symposium*, Birmingham, Alabama, April 21-22, 2016.
52. Sartin, E.B., Deramus, T.P., Maximo, J.O., Rhemmel, R., Glenn, A.L., & Kana, R.K. (2016). Neuroanatomical Correlates of Psychopathic Traits in Adolescent Males. Poster presented at *the American Society for Criminology Conference*, New Orleans, Louisiana, November 17-20, 2016.
53. Sartin, E.B., Stevens, C.E., Klein, C.L., Klinger, M.R., Klinger, L.G., & Kana, R.K. (2016). Engagement of Language and Theory-of-Mind Networks during Self-Other Processing in Autism Spectrum Disorders. Poster presented at the aPA Conference, Orange Beach, Alabama, June 4-6, 2016.
54. Sartin, E.B., Stevens, C.E., Klein, C.L., Klinger, M.R., Klinger, L.G., & Kana, R.K. (2016). Engagement of Language and Theory-of-Mind Networks during Self-Other Processing in Autism Spectrum Disorders. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Batlimore, Maryland, May 11-14, 2016.
55. Sartin, E.B., Stevens, C.E., Klein, C.L., Klinger, M.R., Klinger, L.G., & Kana, R.K. (2016). Engagement of Language and Theory-of-Mind Networks during Self-Other Processing in Autism Spectrum Disorders. Poster presented at the annual Simpson-Ramsey Conference, Birmingham, Alabama, April, 2016.
56. Maximo, J.O., Murdaugh, D.L., & Kana, R.K. Intrinsic local brain connectivity changes in children with autism followed by language remediation. *Poster presentation* at the 2016 Alabama Psychological Association (aPA) Annual Convention. Orange Beach, AL. June 3-5th, 2016.
57. Maximo, J.O., Donnelly, R.J., Wadsworth, H.M. & Kana, R.K. Mental Imitation and Mirroring in Children with Autism. *Poster presentation* at the 13th International Meeting for Autism Research (IMFAR). Baltimore, MD. May 11-14th, 2016.
58. Bednarz, H., Maximo, J.O., Murdaugh, D.L., & Kana, R.K. Altered recruitment of the brain's reading network in children with autism. *Poster presentation* at the 13th International Meeting for Autism Research (IMFAR). Baltimore, MD. May 11-14th, 2016.
59. DeRamus, T.P., Rody, K. N., Kumar, S. L., and Kana, R. K. (May 2016). Neural Bases of Hierarchical Shape Processing in Autism Spectrum Disorder. 2016 International Meeting for Autism Research, Baltimore, MD.

60. Ammons, C.J., Stevens, C.E., & Kana, R.K. (2015). Action Perception and Anthropomorphism in Autism: An Independent Component Analysis Measure of Brain Connectivity. Poster presented at the *National Academy of Neuropsychology Conference*, Austin, TX, November 4-7, 2015.
61. J. O. Maximo, D. L. Murdaugh, A. R. Lemelman, S. E. O'Kelley and R. K. Kana. (2015). Changes in Parietal Cortex Response in Children with Autism Followed By a Visualizing Reading Intervention. Poster presented at *the International Meeting for Autism Research (IMFAR)*, Salt lake City, Utah, May 13-16, 2015.
62. Lemelman, A., Bice, J.E., and Kana, R.K. (2015). Developmental Changes in the Cognitive Profile of Individuals with Autism Spectrum Disorders. Poster presented at *the International Meeting for Autism Research (IMFAR)*, Salt lake City, Utah, May 13-16, 2015.
63. DeRamus, T.P., Patriquin, M., and Kana, R.K. (2015). Activation Likelihood Estimation Guided Investigation into the Anatomy of the Social Brain in Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Salt lake City, Utah, May 13-16, 2015.
64. Murdaugh, D.L., Libero, L., Maximo, J.O., Deshpande, H.D., Lemelman, A.R., O'Kelley, S.E., Crider, C.E., & Kana, R.K. (2015). Changes in Functional Brain Network and White Matter Connectivity Underlying Language Comprehension in Children with Autism after a Reading Intervention. Poster presented at *the International Meeting for Autism Research (IMFAR)*, Salt lake City, Utah, May 13-16, 2015.
65. C. E. Stevens, G. Deshpande, Y. Wang, H. D. Deshpande, C. L. Klein, M. R. Klinger, L. G. Klinger and R. K. Kana. (2015). Granger Causality Estimation of Brain Connectivity in Autism Spectrum Disorders. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Salt lake City, Utah, May 13-16, 2015.
66. J. Herringshaw, C. J. Ammons, T. DeRamus and R. K. Kana. (2015). Hemispheric Differences in Language Processing in Autism Spectrum Disorders: A Meta-Analysis of Neuroimaging Studies. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Salt lake City, Utah, May 13-16, 2015.
67. Maximo, J.O., Murdaugh, D.L., Lemelman, A.R., Crider, C.E., O'Kelley, S.E., Kana, R.K. (2015). Deficits in the brain's reading network in children with autism ameliorated by language remediation. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, Chicago, IL, October 2015.
68. H. M. Wadsworth, H. D. Deshpande and R. K. Kana. (2015). Mirror Neuron System Response to Action Simulation in Children with Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Salt lake City, Utah, May 13-16, 2015.
69. Murdaugh, D.L., Lemelman, A.R., Deshpande, H.D., O'Kelley, S.E., and Kana, R.K. (2014). Changes in Brain Activation and Connectivity in Children with Autism

before and after a Visualization Language Intervention. Poster presented at the *International Meeting for Autism Research (IMFAR)*, May14-16, 2014, Atlanta, GA.

70. Maximo, J.O., Libero, L.E., and Kana, R.K. (2014). Brain Activity and Local Connectivity Underlying Action Understanding in Autism Spectrum Disorders. Poster presented at the *International Meeting for Autism Research (IMFAR)*, May14-16, 2014, Atlanta, GA.
71. Copeland, B.S., Patriquin, M.A., Wicker, B., Channell, M.M., and Kana, R.K. (2014). Atypical Medial Prefrontal Cortex Response to Implicit Emotion Processing in Autism Spectrum Disorders. Poster presented at the *International Meeting for Autism Research (IMFAR)*, May14-16, 2014, Atlanta, GA.
72. Wadsworth, H.M., Sivaraman, S., Martin, C., and Kana, R.K. (2014). Atypical Ventral Premotor Cortex Activity during Motor Imitation in Children and Adolescents with Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, May14-16, 2014, Atlanta, GA.
73. Lemelman, A.R., Murdaugh, D.L., Crider, C.E., O'Kelley, S.E., and Kana, R.K. (2014). The Impact of a Visualizing and Verbalizing Intervention on Language Ability in Children with Autism Spectrum Disorders. Poster presented at the *International Meeting for Autism Research (IMFAR)*, May14-16, 2014, Atlanta, GA.
74. Libero, L.E., DeRamus, T.P., and Kana, R.K. (2014). Neurochemical Concentration, White Matter Integrity, and Brain Functioning in Autism Spectrum Disorder. Poster presented at the *International Meeting for Autism Research (IMFAR)*, May14-16, 2014, Atlanta, GA.
75. DeRamus, T.P., and Kana, R.K. (2014). Structural Anatomy of the Social Brain in Autism: An Activation Likelihood Meta-Analysis. Poster presented at the *International Meeting for Autism Research (IMFAR)*, May14-16, 2014, Atlanta, GA.
76. Libero, L.E., Patriquin, M., & Kana, R.K. (2013). Activation Likelihood Estimation Meta-analysis of Social Brain in Autism Spectrum Disorders. Poster presented at the *Human Brain Mapping Conference*, June 2013, Seattle, USA.
77. Libero, L.E., Stevens, C., & Kana, R.K. (2013). Neurodevelopmental Trajectory of Emotional Attribution in Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, May 2013, Donostia, Spain.
78. Patriquin, M., Libero, L.E., & Kana, R.K. (2013). An Activation Likelihood Estimation Meta-analysis of Social Cognition in Autism Spectrum Disorders. Poster presented at the *International Meeting for Autism Research (IMFAR)*, May 2013, Donostia, Spain.
79. Murdaugh, D.L., Morris, M.M., Lemelman, A.R., O'Kelley, S., & Kana, R.K. (2013). The Impact of a Visualization Language Intervention on Brain Activation and Connectivity in Children with Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, May 2013, Donostia, Spain.

80. Stevens, C.E., Klein, C., Klinger, L., Klinger, M., Deshpande, R., Kana, R.K. (2013). Altered Effective Connectivity Underlying Self-Other Representation in Autism. Poster presented at the Organization of Human Brain Mapping Annual Meeting, Seattle, June 2013.
81. Kumar, S.L., Wadsworth, H.M., & Kana, R.K. (2013). Increased Posterior Cortical Recruitment Mediates Shift from Local to Global Processing in Children with Autism. Poster presented at *the International Meeting for Autism Research (IMFAR)*, Donostia, San Sebastian, Spain, May 2-4, 2013.
82. DeRamus, T.P., & Kana, R.K. (2013). Meta-analysis of Brain Volume Changes in Autism Spectrum Disorder. Poster presented at the Annual Alabama Advanced Imaging Consortium (AAIC) Neuroimaging Retreat, Auburn, July 2013.
83. Powell, P.S., Klinger, M.R., Klinger, L.G., & Kana, R.K. (2013). Neural Correlates of Implicit Contextual Learning in Adults with Autism. Poster presented at *the International Meeting for Autism Research (IMFAR)*, Donostia, San Sebastian, Spain, May 2-4, 2013.
84. Lemelman, A.R., Murdaugh, D.L., Crider, C., Sivaraman, S., O'Kelley, S.E., Kana, R.K. (2013). The Impact of a Visualizing Language Intervention Program on Comprehension Skills in Children with Autism. Poster Presented at the UAB Simpson-Ramsey Symposium, April 18, 2013.
85. Murdaugh, D.L., Nadendla, K., & Kana, R.K. (2012). Differential Role of Temporoparietal Junction and Medial Prefrontal Cortex in Causal Inference in Autism: an Independent Components Analysis. Poster presented at the Society for Neuroscience (SfN) Annual Meeting, October 2012, New Orleans, Louisiana.
86. Sreenivasan, K.R., Deshpande, G., Deshpande, H.D., & Kana, R.K. (2012). Altered Cerebral Effective Connectivity in Theory-of-Mind in Autism Spectrum Disorders. Talk presented at the *International Society for Magnetic Resonance in Medicine Annual Conference*, Melbourne, Australia, May 2012.
87. Moore, M.S., Wicker, B., & Kana, R.K. (2012). Reduced Inferior Frontal Cortex Response to Explicit Emotion Judgment in Autism. Poster presented at the International Meeting for Autism Research, May 2012, Toronto, Canada.
88. Doss, C., Libero, L.E., Bala, D., Bellare, M., & Kana, R.K. (2012). Brain Responses to Anthropomorphism and Perception of Actions in Autism. Talk presented at the International Meeting for Autism Research, May 2012, Toronto, Canada.
89. Moore, M., Wicker, B., & Kana, R.K. (2012). Altered Ventral and Medial Prefrontal Cortex Response to Implicit Emotion processing in Adults with Autism. Poster presented at the International Meeting for Autism Research, May 2012, Toronto, Canada.

90. Libero, L.L., de Lange, F., & Kana, R.K. (2012). Understanding the "how" and "why" of actions in Autism Spectrum Disorders: the role of mirroring and mentalizing systems. Poster presented at the International Meeting for Autism Research, May 2012, Toronto, Canada.
91. Libero, L.L., & Kana, R.K. (2011). Decoding Emotions from Body Postures: Altered Mirror Neuron Response in Children with Autism. Poster/Talk to be presented at the *International Meeting for Autism Research (IMFAR)*, San Diego, May 2011.
92. Murdaugh, D.E., Pennick, M.R., Deshpande, H.D., & Kana, R.K. (2011). Altered Functional Deactivation and Connectivity in the "Resting Brain" in Autism. Poster/Talk to be presented at the Human Brain Mapping Conference, Quebec City, Canada, June 2011.
93. Kana, R.K., Libero, L.L., & Deshpande, H.D. (2010). Of Crossroads, Junctions and Pathways: ToM, TPJ, and Autism. Poster presented at the Annual Social and Affective Neuroscience Conference, Chicago, October 29-31, 2010.
94. Kana, R.K., & Deshpande, H.D. (2010). Social Mirroring: The Role of Mirror Neurons in Decoding Emotions and Intentions from Actions in Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Philadelphia, May 20-22.
95. Klein, C.L., Klinger, L.G., Kana, R.K., Travers, B.G., Montague, R., & Klinger, M.R. (2010). Neural Bases of Implicit Learning in Young Adults with Autism Spectrum Disorder. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Philadelphia, May 20-22.
96. Pennick, M.R., Deshpande, H.D., & Kana, R.K. (2010). Functional Integrity of Dorsal and Ventral Visual Streams in Children with Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Philadelphia, May 20-22.
97. Kumar, S.L., Pennick, M.R., Griffith, E.M., & Kana, R.K. (2010). Neural Bases of Inferring Emotional and Perceptual Information from Body Postures in High-Functioning Children with Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Philadelphia, May 20-22.
98. Wadsworth, H.M., Kumar, S.L., & Kana, R.K. (2010). The Neural Mechanisms Underlying Global and Local Information Processing in High-Functioning Children with Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Philadelphia, May 20-22.
99. Kana, R.K., Klein, C.K., & Travers, B.G. (2009). Social Mirroring: the role of mirror neurons in decoding emotions from actions. Poster presented at the Social and Affective Neuroscience Conference, New York, October 9-11.

100. Klein, C.L., Travers, B.G., Klinger, L.G., Klinger, M.R., & Kana, R.K. (2009). Neural Bases of Self-Representation in High-Functioning Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Chicago, May 07-09.
101. Kana, R.K., Blum, E.R., Klein, C.K., Klinger, L.G., & Klinger, M.R. (2009). The Role of Temporoparietal Junction in Intentional Causal Attribution in Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Chicago, May 07-09.
102. Travers, B.G., Klein, C.L., Klinger, L.G., Klinger, M.R., & Kana, R.K. (2009). Neural Correlates of Motor-Linked Implicit Learning in Autism Spectrum Disorders. Talk presented at the *International Meeting for Autism Research (IMFAR)*, Chicago, May 07-09.
103. Wadsworth, H.M., Klinger, L.G., & Klinger, M.R., & Kana, R.K. (2009). When the Archeologist's Career Ended in Ruins: An fMRI Study of Pun Comprehension in Autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, Chicago, May 07-09.
104. Blum, E.R., and Kana, R.K. (2009). Conceptual issues in psychiatric disorders: the curious case of autism. *Philosophy of Social Sciences Round Table*, Emory University Atlanta, Feb 2009.
105. Kana, R.K., Keller, T.A., Williams, D.L., Cherkassky, V.L., Minshew, N.J., and Just, M.A. (2008). Mindreading, Mirror Neurons, and Midline Cortical Structures in autism. Poster presented at the *International Meeting for Autism Research (IMFAR)*, London, May 2008.

Invited Talks

International:

1. Kana, R.K. (2021). *The Neuroscience of Everyday Life*. Albertian Knowledge Summit, St. Albert's College, Kochi, India, March 17, 2021.
2. Kana, R.K., Bell, N., Worthington, P., Benson, A. (2019). *Changes in Intrinsic Connectivity of the Brain's Reading Network following Intervention in Children with Autism*. Autism-Europe International Congress, September 13-15, 2019, Nice, France.
3. Kana, R.K. (2019). *Pivotal Skills Training and the Brain*. National Institute of Speech and Hearing (NISH), Trivandrum, India, June 18, 2019.
4. Kana, R.K. (2018). *Basic to Translational Imaging in Autism*. National Institute of Speech and Hearing (NISH), Trivandrum, India, July 17, 2018.
5. Kana, R.K. (2017). *Brain Connectivity in Autism*. Sri Chitra Tirunal Institute of Medical Sciences, Trivandrum, India, June 27, 2017.
6. Kana, R. K. (2017). Autism: Clinical and Translational Insights from Brain Mapping. International Neuropsychological Society (INS) Annual Meeting. Invited Workshop, New Orleans, LA, February 03, 2017

7. Kana, R.K. (2016). *The impact of visualizing reading intervention on brain connectivity in autism*. Neuro-diverse: a symposium on autism, neuroscience, and perceptual thinking. Vanderbilt University, Nashville, TN, May 23, 2016.
8. Kana, R.K. (2015). *Basic and Translational Aspects of Neuroimaging Research in Autism*. Sri Chitra Tirunal Institute of Medical Sciences, Trivandrum, India, June 30, 2015.
9. Kana, R.K. (2013). Lindamood-Bell Learning Processes, California, Annual International Conference. Title: Impact of Language Remediation on Brain Connectivity in Autism March 7, 2013.
10. Kana, R.K. (2012). *Disrupted Cortical Connectivity Model of Autism*. AWARES World Autism Online Conference. Web: <http://www.awares.org/> October 29, 2012.
11. Kana, R.K. (2012). *Disrupted Cortical Connectivity as a Neural Signature of ASD*. International College of Neuropharmacology (CINP) World Congress, Stockholm, Sweden, June 6, 2012.
12. Kana, R.K. (2012). *Mapping the Brain in Autism: the good, the bad, and the ugly*. Dept. of Humanities & Social Sciences Seminar, Indian Institute of Technology (IIT), Delhi, India, March 6, 2012.
13. Kana, R.K. (2012). *Neural Signatures of Autism Spectrum Disorders*. Center for Neuroscience, Indian Institute of Science (IISc.), Bangalore, India, March 1, 2012.
14. Kana, R.K. (2012). *Neural Mechanisms of Emotion and Language in Autism*. Language, Emotion, & Culture Group Workshop, Indian Institute of Technology (IIT), Delhi, India, February 10, 2012.
15. Kana, R.K. (2012). *The Functional Architecture of Brain Connectivity in Autism*, National Brain Research Center (NBRC), Manesar, India, February 8, 2012.
16. Kana, R.K. (2007). *Disrupted Cortical Connectivity Model of Autism*. AWARES World Autism Online Conference. Web: <http://www.awares.org/> November 26, 2007.

National:

1. Kana, R.K. (2014). *Brain Connectivity Signatures of Autism: Promises and Challenges*. Association for Psychological Science (APS) Annual Conference, San Francisco, CA, May 23, 2014.
2. Kana, R.K. (2014). *Multimodal Neuroimaging Markers of Autism*. Society for Biological Psychiatry Annual Meeting, New York, NY, May 9, 2014.
3. Kana, R.K. (2014). *Multimodal Brain Signatures of Autism Spectrum Disorders*. Department of Speech, Language and Hearing Sciences Colloquium, Purdue University, Lafayette, Indiana, Feb 19, 2014.
4. Kana, R.K. (2014). *Neural Signatures of User-Centered Computer Security Interactions*. Cyber Summit, Sheraton Hotel, Birmingham AL, February 12, 2013.
5. Kana, R.K. (2013). *Impact of Language Intervention on Brain Connectivity in Autism*. American Speech & Hearing Association Annual Conference, McCormick Place, Chicago, IL, November, 14, 2013.

6. Kana, R.K. (2013). Brain Connectivity Signatures in Autism. Dept. of Psychology & Texas Tech Neuroimaging Institute Colloquium. Texas Tech University, Lubbock, TX, March 25, 2013.
7. Kana, R.K. (2008). *Brain bases of cognitive functions in autism*. Chesapeake District Civitan Foundation, Fredericksburg, VA, November 21, 2008.
8. Kana, R.K. (2008). *Localizing actions and the self in the brain: lessons from autism*. 35th Carnegie Symposium on Cognition, Carnegie Mellon University, Pittsburgh PA, October 18, 2008.

Regional/Local:

1. Kana, R.K. (2021). Virtual Neuroscience Café. Title: *Brain Research in Autism*. February 18, 2021.
2. Kana, R.K. (2020). Educational Psychology Brown Bag, University of Alabama. Title: Diagnostic Utility of Neuroimaging Markers of Autism. October 30, 2020.
3. Kana, R.K. (2019). Neuroscience Café. Title: *Behind the Wheel with Autism*. Homewood Public Library, Birmingham, AL, September 26, 2019.
4. Kana, R.K. (2019). Targeting Brain Plasticity in Autism through Intervention. Simpson-Ramsey Annual Symposium, UAB Birmingham, 9th May 2019.
5. Kana, R. K. (2016). Birmingham Museum of Art. Title: *From Mirror Neurons to Monet: the neuroscience of Art*, 07 April 2016.
6. Kana, R.K. (2016). University of Alabama Department of Psychology Colloquium. Title: *Basic and Translational Aspects of Neuroimaging Research in Autism*, 19 October 2016.
7. Kana, R.K. (2015). UAB-Auburn Annual Neuroimaging Retreat. Title: Multimodal Neuroimaging of Autism, Auburn, AL, July 18, 2015.
8. Kana, R.K. (2015). Unlocking the Mystery Conference. Title: *Targeting Brain plasticity using intervention in autism*. The Worship center Christian Church-Huffman/Derby, Birmingham AL., October 2015.
9. Kana, R.K. (2015). UAB Brain-Machine Symposium. Title: *Machine-Assisted Classification of Brain Imaging Data in Autism*. UAB Alumni House, February 27, 2015.
10. Kana, R.K. (2014). The Reading Brain: its function, dysfunction, and autism. UAB Neuroscience Café, Hoover Public Library, Hoover, AL, February 17, 2014.
11. Kana, R.K. (2013). *Multimodal Neuroimaging Markers of Autism*. UAB Comprehensive Neuroscience Center Annual Retreat, Alabama 4-H Center, Columbiana, AL, September 6, 2013.
12. Kana, R.K. (2011). Book Discussion: *Thinking in Pictures*. UAB President's Book Club, Nov 17, 2011.
13. Kana, R.K. (2011). *Neural Signatures of Autism*. Samuel-Ginn MRI Seminar, Auburn University, September 14, 2011.
14. Kana, R.K. (2011). *Autism as a disorder of brain connectivity*. UAB Simpson-Ramsey Symposium, Hill University Center, UAB, Apr 21, 2011.

15. Kana, R.K. (2009). *Murky Mirrors and Martian Anthropologists: a closer look at the social brain in autism*. UAB Comprehensive Neuroscience Center Bevill Symposium on Neuroimaging, UAB, October 6, 2009.
16. Kana, R.K. (2009). *The problem of other minds: mirror neurons and mindreading in autism*. UAB Department of Neurobiology Annual Retreat. *The Alabama 4-H Center, Columbiana, AL.*, September 25, 2009.
17. Kana, R.K. (2008). *Autism: cortex, cognition, & connectivity*. UAB Psychiatry Grand Rounds, Center for Psychiatric Medicine, UAB, September 30, 2008.

News & Media

- *Desktop News, College of Arts & Sciences, UA (07-21-2020)*. UA Establishes Center for Innovative Autism Research.
- *University of Alabama News*. UA Expands, Strengthens Research Capabilities with new MRI. September 28, 2020.
- *Lindamood-Bell Radio Podcast*, February 2020.
- *University of Alabama Alumni Magazine*, September 2019
- *Business Buzz*. How autism research, treatment intersect in Bham. July 22, 2016.
- *Arts & Sciences Magazine, UAB*. Connections: Neuroimaging to map the Brains of People with Autism Spectrum Disorder. October 2016.
- *Medical Express*. New quantitative technique shows microstructural brain alterations in autism spectrum disorder. 16 November 2016.
- *Science Daily*. Autistic Children improved reading, brain activity after 10-week reading intervention, June 2015.
- *Lab Manager*. Insights on Neuroimaging. June 04, 2015.
- *Psychcentral*. Brain imaging shows why kids with autism have social difficulties. 28 December 2015.
- *EssentialKids*. New study shows kids with autism can improve their reading comprehension. June 2015.
- *UAB News*. Autistic Children improved reading and brain activity after 10-week reading intervention, July 2015.
- *Science Daily*. Autism detection improved by multimodal neuroimaging, March 2015
- *Color Doppler Magazine Interview*. Autism: dispelling the myths. April 2014, Vol.3, Issue 4, Page 27.
- *Public Health Minute Radio Interview* with Bill Latimer. Child Development and autism. April 2014.
- *Science Daily*. Brain scans may aid autism diagnosis. October, 2013.
- *The Birmingham News*. New Tool watches the Brain at Work. February 2011.
- *Civitan Magazine*. Research Report. March 2011.
- *Live Science*. Autism can be an advantage, Researcher Says. November 2011.
- *UAB Magazine Interview*. Answers for Autism. Fall 2010.
- *UAB Blazercast Interview*. Part of the Autism Awareness Month. April 2009.

- *TV60 Gadsden AL*. Interview on Autism. Program: "Joy in our Town". January & February 2008.

Service

Editorial

<i>Associate Editor</i>	Frontiers in Human Neuroscience (2014-present)
<i>Editorial Boards</i>	Autism Research (2014-present) American Journal of Autism (2013-present) ISRN Neuroscience (2014-present) The Open Neuroimaging Journal (2017-present)
<i>Ad Hoc Reviewer</i>	Neuroimage Biological Psychiatry Biological Psychiatry: CNNI PLoSOne Brain Cortex Neuron Neuroimage: Clinical Human Brain Mapping Cerebral Cortex Social Cognitive and Affective Neuroscience Journal of Autism and Developmental Disorders Research in Autism Spectrum Disorders Autism: International Journal of Research and Practice Journal of Child Psychology and Psychiatry Brain Structure and Function Brain Topography Brain and Language Neuropsychologia Brain Connectivity Brain Research Autism Research Neuroscience Neuroscience and Biobehavioral Reviews American Journal of Psychiatry Research in Autism Spectrum Disorders
<i>Member</i>	Human Brain Mapping Society Society for the Neurobiology of Language International Society for Autism Research Action for Autism, New Delhi, India Social and Affective Neuroscience Society
<i>Abstract Reviewer</i>	Human Brain Mapping Society Society for the Neurobiology of Language International Society for Autism Research

Book Reviews

Sinauer Associates: Huettel, S.A., Song, A.W., & McCarthy, G. (2014).
Functional Magnetic Resonance Imaging.

Grant Reviewing

- National Science Foundation Major Research Instrumentation Application Study Section (2021-)
- National Institute of Health (NIH) Child Psychopathology and Developmental Disabilities (CPDD) Study Section Member (2021-)
- National Institute of Health (NIH) Language and Communication (L-COM) Study section Member (2020-)
- Neurological Foundation, New Zealand (2019)
- Austrian Science Fund (2019)
- Ontario Research Fund Ministry of Research, Innovation, and Science (2017)
- Israel Science Foundation (ISF) (2017)
- EU Marie Curie ASSISTID Fellowship Program (2015)
- Autism Speaks Foundation (2012)
- Wellcome DBT India Alliance Fellowships (2011-present)
- German Research Foundation (2016)
- National Brain Research Center, New Delhi, India
PhD. Dissertation Review: 2015

Departmental and School Committees

2020-present	UA Arts & Sciences FAC Committee
2020-present	UA Dept. of Psychology Chair Selection Committee
2019-present	UA College of Education Faculty Search Committee
2019-present	UA Dept. of Biological Sciences Faculty Search Committee
2019-present	UA Dept. of Psychology IRB Review Committee
2014-present	Alabama Adv. Imaging Consortium (AAIC) Steering Committee
2015-present	Children’s Hospital Autism Task Force
2009-2016	Chair, Outstanding Psych Grad Student Selection Committee
2009-2012	Medical/Clinical Psychology Coordination Committee
2014-2019	Director, Psychology Department Colloquium Series
2014-2019	Comp Neuroscience Center (CNC) Faculty Advisory Committee
2013-2019	Executive Committee, UAB Department of Psychology
2012-2019	Undergraduate Studies Committee, Department of Psychology
2013-2019	Co-Director, Undergraduate Neuroscience Program
2015-2019	Undergraduate Neuroscience Program Curriculum Committee
2015-2019	Undergraduate Neuroscience Program Steering Committee
2016-2019	UAB Faculty Senate Alternate Senator
2017-2019	College of Arts and Sciences Faculty Senate Caucus Committee
2017-2019	UAB DSS Existing & Emerging Technologies Committee
2016-2019	Neuroscience Undergraduate Science Majors committee
2017-2019	UAB Fulbright Scholar Selection Committee
2008-2019	Behavioral Neuroscience Graduate Program Committee
2013-2015	Comp Neuroscience Center Annual Retreat Planning Committee

2016-2017	Faculty Development Grant Review Committee
2016-2017	Faculty Senate Research Committee
2017-2019	Faculty senate Financial Affairs Committee
2009	Psychology Chair Search Committee
2011	Psychology Faculty Search Committee
2009-2019	John P. Ost Research Day poster competition, judge
2009-2019	Simpson-Ramsey Symposium poster competition, judge
2014-2019	Faculty Advisor, Birmingham Blazing Bhangra

Master's and Doctoral Dissertations Mentored

Mentoring

Current Graduate Students:

Meagan Beckerson (Clinical Psychology, UA)
 Courtney Paisley (Clinical Psychology, UA)
 Kaitlyn May (Educational Neuroscience, UA)
 Z Winters-Derevjanik (Educational Neuroscience, UA)
 Haley Bednarz (Clinical Psychology, UAB)
 Carla Ammons (Clinical Psychology, UAB)
 Abbey Herringshaw (Clinical Psychology, UAB)
 Julie Trapani (Clinical Psychology, UAB)

Chairing and Co-Chairing Student Committees

Doctoral Dissertations:

Haley Bednarz, Ph.D. (2020) - Medical/Clinical Psychology
 Carla Ammons, Ph.D. (2019) - Medical/Clinical Psychology
 Omar Maximo, Ph.D. (2018) - Lifespan and Developmental Psychology
 Thomas DeRamus, Ph.D. (2017) - Behavioral Neuroscience
 Kelley Ross Wolfe, Ph.D. (2012) - Medical/Clinical Psychology
 Lauren Libero, Ph.D. (2014) - Lifespan and Developmental Psychology
 Donna Murdaugh, Ph.D. (2015) - Medical/Clinical Psychology
 Heather Wadsworth, Ph.D. (2014) - Medical/Clinical Psychology
 Amy Lemelman, Ph.D. (2015) - Medical/Clinical Psychology

Master's Theses:

Emma Sartin (2017) - Lifespan and Developmental Psychology
 Melissa Thye (2017) - Lifespan and Developmental Psychology
 Abbey Herringshaw (2017) - Medical/Clinical Psychology
 Haley Bednarz (2016) - Medical/Clinical Psychology
 Jose O. Maximo (2016) - Lifespan and Developmental Psychology
 Lauren Libero (2012) - Lifespan and Developmental Psychology
 Heather Wadsworth (2011) - Medical/Clinical Psychology
 Mark Pennick (2010) - Lifespan and Developmental Psychology

Member of Thesis/Dissertation Committee:

- Maria Lechtreck (2020 - present - UAB Department of Psychology)
- Kaitlyn May (2020 - present) - School of Education

- Courtney Paisley (2020 - present) - Department of Psychology
- Andrew Bontemps (2020 - present) - Department of Psychology
- Justin Leach (2017-2020) - Department of Biostatistics
- Austin Svancara (2018 - present) - Lifespan and Developmental Psychology
- Sangeeta Nair (2018 -- present) - Behavioral Neuroscience
- Gabriela Sherrod (2019 - present) - Clinical Psychology
- Elyse Cadena (2015-2019) -- Behavioral Neuroscience
- Nate Harnett (2015-2019) -- Behavioral Neuroscience
- Kimberly Wood -- Behavioral Neuroscience
- Muriah Wheelock -- Behavioral Neuroscience
- Wesley Burge -- Behavioral Neuroscience
- Leland Fleming - Biomedical Sciences
- Joe Griffis (Masters) -- Behavioral Neuroscience
- Abdurahman Elkhatali - Biomedical Sciences
- Julia Fleming Beattie - Medical/Clinical Psychology
- Lauren Bolden -- Medical/Clinical Psychology
- Amber Gregory - Medical/Clinical Psychology
- Maggie King - Behavioral Neuroscience
- Ajaya Neupane - Computer Science
- Rheanna Remmel (UA) - Clinical Psychology
- Brittany Travers (UA) - Experimental Psychology
- Christopher Klein (UA) - Experimental Psychology
- Haley Johnson-Bishop - Lifespan and Developmental Psychology
- Stacy Levin Ladden (Argosy University) - PsyD. Program

Undergraduate Students Mentored (2008-):

Vaibhav Paneri; Joni Hill; Laura Brown; Sandhya Kumar; David Bala; Constance Doss; Tyler Godsy; Andrew Rozsa; Jordan Lins; Carolyn Polcari; Maureen Bellare; Kavita Nadendla; Briley Copeland; Bahia Lukima; Claire Crider; Kacy Clayton; Rebecca Donnelly; Priyanka Patel; Mary-Elizabeth Winslett; Carl Stevens Jr.; Jamie Bice; Kaitlyn Noel Rody; Megan Blansit; Keya Kuruvilla; Michael Georgescu; Miranda Morris; Casey Eubanks; Tanya Amanda Correya; Niharika Loomba; Jasmine Cunningham; Victoria Seghatol-Eslami; Jennifer Calano; Inaara Rajpari; Lauren Duvall; Alyssa Spencer; Alissa Morales; Rama Pottipati; McKensie McGrath; Katelyn King; Destini Davis; Tara Tischer; Jaeden Joyner, Alexis Fagan-Williams, Abigail Waltz.

Visiting graduate students Mentored (2008-):

- Cailee Nelson (University of Alabama)
- Christopher Klein (University of Alabama)
- Brittany Travers (University of Alabama)
- Patrick Powell (University of Alabama)
- Stacy Levin Ladden (Argosy University)
- Elizabeth Blum (UAB Sociology)
- Ajaya Neupane (UAB Computer Science)
- Marie Moore Channell (University of Alabama)
- Rheanna Remmel (University of Alabama)
- Megan Waite (UAB Behavioral Neuroscience)
- Elyse Cadena (UAB Behavioral Neuroscience)

- Sangeeta Nair (UAB Behavioral Neuroscience)
- Jeffrey Colburn (UAB Med School Resident)
- Michelle Patriquin (Baylor College of Medicine)

High School Students Mentored (2016-present):

- Vuga Parpura (Jefferson County International Baccalaureate School)
- Manish Puttanna (Spain Park High School, Hoover)
- Kate Redden (Jefferson County International Baccalaureate School)

Teaching

Spring 2008	Brain Imaging of Social Cognition (PY420/PY791)
Spring 2008	Cognitive Neuroscience of Autism (PY320)
Fall 2008	Disorders of Brain & Mind (PY420/PY791)
Spring 2009	Cognitive Brain Imaging (HON325)
Fall 2009	Cognitive Neuroscience of Autism (PY354)
Fall 2010	Cognitive Neuroscience of Autism (PY354)
Spring 2011	Methods in Neuroimaging (PY743/NBL743)
Fall 2011	Autism: Brain and Mind (PY354)
Fall 2012	Methods in Neuroimaging (PY743/NBL743)
Fall 2012	Autism: Brain and Mind (PY354)
Fall 2013	Autism: Brain and Mind (PY354)
Fall 2013	Brain, Mind, and Behavior (PY253)
Fall 2014	Autism: Brain and Mind (PY354)
Fall 2014	Brain, Mind, and Behavior-Honors (PY253)
Summer 2015	Cross-cultural Perspectives on Mental Illness (PY320) <i>Education Abroad in India</i>
Fall 2015	Autism: Brain and Mind (PY354)
Fall 2015	Brain, Mind, and Behavior (PY253)
Fall 2016	Brain Mind, and Behavior (PY253)
Spring 2017	Brain, Mind, and Behavior (PY253)
Summer 2017	Cross-cultural Perspectives on Mental Illness (PY320) <i>Education Abroad in India</i>
Fall 2017	Brain, Mind, and Behavior (PY253)
Fall 2018	Brain, Mind, and Behavior (PY253)
Fall 2018	Autism: Brain and Mind (PY354)
Fall 2020	Physiological Psychology (PY 413)
Fall 2021	Physiological Psychology (PY 413)

Guest Teaching:

2008-present	Overview of Behavioral Neuroscience (PY753)
2008-present	Medical Neuroscience Module (Dr. Robin Lester)
2010-present	Neuroscience for Dental/Opt (DENT1255/OBHS 121)
2010-2011	Survey of Exceptional Learners (ECY600: Education)
Spring 2010	Honors Autism Seminar (Dr. Karen Dahle)
Summer 2011	Modeling Human Disease (HMG704)
2009-present	Neurobiology of Disease (NBL752)

2012-present	Methods in Neuroimaging (NBL741)
2013-present	Undergraduate Neuroscience Colloquium
Fall 2013	Neurology Residents Basic Neuroscience Course
Spring 2015	Neuroscience Residency Course
Fall 2016	STH299 Honors Seminar
Spring 2017	Language in Mind and Brain (PY320)
2015-present	Diseases of the Nervous System (Neurobiology)
Spring 2015	Introduction to Medical Imaging (EE790)

Community Education:

2008 November	Civitan Chesapeake District, Fredericksburg, VA
2011 November	Perimeter Civitan Club, Birmingham AL
2011 June	Junior Civitan Annual Convention, Sheraton, Birmingham
2014 Feb	Neuroscience Café, Hoover Public Library
2014 November	Neuroscience Café, Homewood Public Library
2016 May	Neuroscience Café, Avondale Public Library
2016 October	Neuroscience Café, Hoover Public Library
2016 July	Kiwanis Club of Birmingham
2016 May	Research Civitan SCI Lecture
2017 April	Neuroscience Café, Mountain Brook Public Library
2018 February	Neuroscience Café, Homewood Public Library
2018 July	Lindamood-Bell Learning Processes Podcast
2019 September	Neuroscience Café, Homewood Public Library
2019 October	Lindamood-Bell Learning Processes Podcast

References

Prof. Marcel Adam Just, Ph.D.,

D.O. Hebb Professor,
 Department of Psychology, Director, Center for Cognitive Brain Imaging,
 Carnegie Mellon University,
 Pittsburgh, PA 15213.
 Phone: 412-268-2791;
 Email: just@cmu.edu

Dr. Kevin Pelphrey, Ph.D.,

Harrison-Wood Jefferson Foundation Scholars Professor of Neurology and Professor,
 Curry School of Education,
 University of Virginia,
 Charlottesville, VA
 Email: autism@gwu.edu

Dr. Diane L. Williams, Ph.D. CCC-SLP,

Professor and Head, Program Director
 Department of Communication Sciences and Disorders,
 Penn State University,
 308 Ford Building, University Park, PA 16802

Phone: (814)865-3177; Fax: (814)865-8133;
Email: dlw81@psu.edu

Dr. Sharlene D. Newman, Ph.D.,

Professor of Psychology,
Executive Director, Alabama Life Research Institute (ALRI)
University of Alabama, Tuscaloosa
Email: sdnewman@ua.edu

Dr. Nancy J. Minshew, M.D.,

Director, University of Pittsburgh Autism Research Program,
Webster Hall-Suite 300, 3811 O'Hara Street, Pittsburgh, PA 15213
Phone: 412-246-5488;
Email: minsnewnj@msx.upmc.edu