Stanford



Vinod Menon

Rachael L. and Walter F. Nichols, MD, Professor and Professor, by courtesy, of Education and of Neurology and Neurological Sciences

Psychiatry and Behavioral Sciences

CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Menon is the Rachel L. and Walter F. Nichols, MD, Professor of Psychiatry & Behavioral Sciences and, Professor, by courtesy, of Neurology & Neurological Sciences and Education at Stanford University. Dr. Menon is director of the Stanford Cognitive and Systems Neuroscience Laboratory, which seeks to advance fundamental knowledge of human brain function and dysfunction, and to use this knowledge to help children and adults with psychiatric and neurological disorders. Research in Dr. Menon's lab emphasizes a tight integration of cognitive, behavioral, neuroscience and computational methodologies. Students and researchers in his lab come from a wide range of disciplines, including psychiatry, neurology, psychology, neuroscience, electrical and biomedical engineering, and computer science, to conduct research in a highly interdisciplinary setting.

Dr. Menon received his BSc (Honors) in physics from the Indian Institute of Technology and his PhD in computer science from the University of Texas at Austin. He did a postdoctoral fellowship in neurophysiology at the University of California, Berkeley under the direction of Prof. Walter J. Freeman, III. He came to Stanford University as a Sinclair Foundation Research Fellow and joined the faculty in 2000.

Over the past two decades, Dr. Menon’s research has led to major breakthroughs in our understanding of the architecture, function, and development of these large-scale distributed human brain networks. Dr. Menon and his team were among the first to discover that the human brain is organized into specialized and interacting networks of brain regions, which has resulted in a paradigm shift in how we investigate human brain function and cognition. Virtually every psychiatric and neurological disorder has been probed with the scientific framework Dr. Menon and his team first developed. This includes discovery of the default mode, frontoparietal, and salience networks, and their functions, which have led to elucidation of how deficits in access, engagement and disengagement of large-scale brain networks play a prominent role in psychopathology, providing novel insights into brain mechanisms underlying cognitive, affective, and social function and dysfunction that cut across multiple neurological and psychiatric disorders.

Dr. Menon’s research has been cited over 101,000 times, with an h-index of 130 (Google Scholar). Dr. Menon is a ISI Highly Cited Researcher in Neuroscience (2013, 2014, 2015, 2016, 2017, 2018; ISI, Thompson Reuters), and in 2019 and 2020 he was named an ISI Highly Cited Researcher with Cross-Field impact.

ACADEMIC APPOINTMENTS

- Professor, Psychiatry and Behavioral Sciences
- Professor (By courtesy), Neurology and Neurological Sciences
- Professor (By courtesy), Graduate School of Education
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Member, Faculty Advisory Board, Clayman Institute for Gender Research at Stanford, (2006-2008)
- Member, Child Psychopathology and Developmental Disabilities (CPDD)Study Section, NIH, (2005-2009)
- Member, Advisory Committee, Stanford Center for Arts, Science and Technology, (2006-2011)
- Director, Stanford Cognitive + Systems Neuroscience Laboratory, (2005- present)

HONORS AND AWARDS

- Editorial Board, Developmental Cognitive Neuroscience (2022-)
- ISI Highly Cited Researcher - Cross-Field Impact, Thomson Reuters/Web of Science (2020)
- ISI Highly Cited Researcher - Cross-Field Impact, Thomson Reuters/Web of Science (2019)
- ISI Highly Cited Researcher - Neuroscience & Behavior, Thomson Reuters/Web of Science (2018)
- NIH MERIT Award (R37) for Outstanding Research, NIH (2018)
- ISI Highly Cited Researcher - Neuroscience & Behavior, Thomson Reuters/Web of Science (2017)
- Editorial Board, Network Neuroscience (2016-)
- ISI Highly Cited Researcher - Neuroscience & Behavior, Thomson Reuters/Web of Science (2016)
- ISI Highly Cited Researcher - Neuroscience & Behavior, Thomson Reuters/Web of Science (2015)
- ISI Highly Cited Researcher - Neuroscience & Behavior, Thomson Reuters/Web of Science (2014)
- Elected Member, American College of Neuropsychopharmacology (2013)
- Editorial Board, J Neurodevelopmental Disorders (2012-)
- Editorial Board, NeuroImage (2011-2014)
- A-STAR Distinguished Visiting Professor, DUKE-NUS Graduate Medical School, National University of Singapore (2009)
- Clayman Institute Fellow, Stanford University (2008)
- 1st prize, New Perspectives in fMRI Research Award, Journal of Cognitive Neuroscience (2004)
- Career Development Award, NIH (2001-2006)
- Young Investigator Award, National Alliance for Research in Schizophrenia and Depression (NARSAD) (1998)
- Welch Fellow, University of Texas at Austin (1988)

PROGRAM AFFILIATIONS

- Symbolic Systems Program

PROFESSIONAL EDUCATION

- B.Sc. (Hons.), Indian Institute of Technology , Physics (1982)

- Ph.D., University of Texas at Austin , Computer science & Neuroscience (1990)
- Postdoctoral Fellow, University of California, Berkeley , Neurobiology (1994)

LINKS

- Stanford Cognitive & Systems Neuroscience Lab: http://scsnl.stanford.edu
- Google Scholar: https://scholar.google.com/citations?user=QzqctJgAAAAJ&hl=en

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Menon's lab uses advanced imaging and computational techniques to investigate the functional and structural architecture of cognitive networks in the human brain. His lab also investigates how disruptions in specific brain circuits impact behavior, cognition, emotion and learning in individuals with neurodevelopmental, psychiatric and neurological disorders.

Current projects include: (1) typical and atypical development of large-scale brain networks; (2) disruption of large-scale brain networks in psychopathology; (3) cognitive, affective, and social information processing systems in children with autism; (4) neural basis of learning disabilities in children; (5) brain training and interventions to remediate poor cognitive skills in children with learning disabilities; (6) computational methods for probing dynamic functional circuits; (7) computational modeling of large-scale functional and structural brain networks.

CLINICAL TRIALS

- Interventions in Mathematics and Cognitive Skills, Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Sonya Ashikyan, Linjing Jiang, Oliver Lasnick, Lei Li, Tong Shan, Zehra unal

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Data Science (PhD Program)
- Neurosciences (PhD Program)
- Psychiatry and Behavioral Science (Fellowship Program)

Publications

PUBLICATIONS

- **Neuroanatomical, transcriptomic, and molecular correlates of math ability and their prognostic value for predicting learning outcomes.** *Science advances*
  Liu, J., Supekar, K., El-Said, D., de Los Angeles, C., Zhang, Y., Chang, H., Menon, V.
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- **Space wandering in the rodent default mode network.** *Proceedings of the National Academy of Sciences of the United States of America*
  Nghiem, T. E., Lee, B., Chao, T. H., Branigan, N. K., Mistry, P. K., Shih, Y. I., Menon, V.
  2024; 121 (15): e2315167121
- **A multi-demand operating system underlying diverse cognitive tasks.** *Nature communications*
  Cai, W., Taghia, J., Menon, V.
  2024; 15 (1): 2185

- **Deep learning models reveal replicable, generalizable, and behaviorally relevant sex differences in human functional brain organization.** *Proceedings of the National Academy of Sciences of the United States of America*
  Ryali, S., Zhang, Y., de Los Angeles, C., Supekar, K., Menon, V.
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- **Atypical pattern separation memory and its association with restricted interests and repetitive behaviors in autistic children.** *Autism : the international journal of research and practice*
  Chen, L., Liu, J., Kang, J. B., Rosenberg-Lee, M., Abrams, D. A., Menon, V.
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- **20 years of the default mode network: A review and synthesis.** *Neuron*
  Menon, V.
  2023
- **Optogenetic stimulation of anterior insular cortex neurons in male rats reveals causal mechanisms underlying suppression of the default mode network by the salience network.** *Nature communications*
  Menon, V., Cerri, D., Lee, B., Yuan, R., Lee, S. H., Shih, Y. I.
  2023; 14 (1): 866
- **Neuronal dynamics of the default mode network and anterior insular cortex: Intrinsic properties and modulation by salient stimuli.** *Science advances*
  Chao, T. H., Lee, B., Hsu, L. M., Cerri, D. H., Zhang, W. T., Wang, T. W., Ryali, S., Menon, V., Shih, Y. I.
  2023; 9 (7): eade5732
- **Integrative Brain Network and Salience Models of Psychopathology and Cognitive Dysfunction in Schizophrenia.** *Biological psychiatry*
  Menon, V., Palaniyappan, L., Supekar, K.
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- **A neurodevelopmental shift in reward circuitry from mother's to nonfamilial voices in adolescence.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Abrams, D. A., Mistry, P. K., Baker, A. E., Padmanabhan, A., Menon, V.
  2022
- **Dopaminergic medication normalizes aberrant cognitive control circuit signalling in Parkinson's disease.** *Brain : a journal of neurology*
  Cai, W., Young, C. B., Yuan, R., Lee, B., Ryman, S., Kim, J., Yang, L., Henderson, V. W., Poston, K. L., Menon, V.
  2022
- **Deep learning identifies robust gender differences in functional brain organization and their dissociable links to clinical symptoms in autism.** *The British journal of psychiatry : the journal of mental science*
  Supekar, K., de Los Angeles, C., Ryali, S., Cao, K., Ma, T., Menon, V.
  2022: 1-8
- **Electrophysiological foundations of the human default-mode network revealed by intracranial-EEG recordings during resting-state and cognition.** *NeuroImage*
  Das, A., de Los Angeles, C., Menon, V.
  1800: 118927
- **Asymmetric frequency-specific feedforward and feedback information flow between hippocampus and prefrontal cortex during verbal memory encoding and recall.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Das, A., Menon, V.
  2021
- **The role of PFC networks in cognitive control and executive function.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
  Menon, V., D'Esposito, M.
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- **Dynamic causal brain circuits during working memory and their functional controllability.** *Nature communications*
  Cai, W., Ryali, S., Pasumarthy, R., Talasila, V., Menon, V.
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- **Neurocognitive modeling of latent memory processes reveals reorganization of hippocampal-cortical circuits underlying learning and efficient strategies.** *Communications biology*
  Supekar, K., Chang, H., Mistry, P. K., Iuculano, T., Menon, V.
  2021; 4 (1): 405
- **Latent brain state dynamics distinguish behavioral variability, impaired decision-making, and inattention.** *Molecular psychiatry*
  Cai, W., Warren, S. L., Duberg, K., Pennington, B., Hinshaw, S. P., Menon, V.
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- **Dissociation by Network Integration.** *The American journal of psychiatry*
  Menon, V.
  2021; 178 (2): 110–12
- **Long-term effects of intermittent early life stress on primate prefrontal-subcortical functional connectivity.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
  Yuan, R., Nechvatal, J. M., Buckmaster, C. L., Ayash, S., Parker, K. J., Schatzberg, A. F., Lyons, D. M., Menon, V.
  2021
- **Aberrant dynamics of cognitive control and motor circuits predict distinct restricted and repetitive behaviors in children with autism.** *Nature communications*
  Supekar, K., Ryali, S., Mistry, P., Menon, V.
  2021; 12 (1): 3537
- **Brain networks and cognitive impairment in psychiatric disorders.** *World psychiatry : official journal of the World Psychiatric Association (WPA)*
  Menon, V.
  2020; 19 (3): 309–10
- **Spatiotemporal Integrity and Spontaneous Nonlinear Dynamic Properties of the Salience Network Revealed by Human Intracranial Electrophysiology: A Multicohort Replication.** *Cerebral cortex (New York, N.Y. : 1991)*
  Das, A., Menon, V.
  2020
- **Microstructural organization of human insula is linked to its macrofunctional circuitry and predicts cognitive control.** *eLife*
  Menon, V. n., Gallardo, G. n., Pinsk, M. A., Nguyen, V. D., Li, J. R., Cai, W. n., Wassermann, D. n.
  2020; 9
- **Intrinsic functional architecture of the human speech processing network.** *Cortex; a journal devoted to the study of the nervous system and behavior*
  Abrams, D. A., Kochalka, J. n., Bhide, S. n., Ryali, S. n., Menon, V. n.
  2020; 129: 41–56
- **Anxiety and Stress Alter Decision-Making Dynamics and Causal Amygdala-Dorsolateral Prefrontal Cortex Circuits During Emotion Regulation in Children.** *Biological psychiatry*
  Warren, S. L., Zhang, Y. n., Duberg, K. n., Mistry, P. n., Cai, W. n., Qin, S. n., Bostan, S. N., Padmanabhan, A. n., Carrion, V. G., Menon, V. n.
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- **Inhibition-related modulation of salience and frontoparietal networks predicts cognitive control ability and inattention symptoms in children with ADHD.** *Molecular psychiatry*
  Cai, W., Griffiths, K., Korgaonkar, M. S., Williams, L. M., Menon, V.
  2019
- **Hyperdirect insula-basal-ganglia pathway and adult-like maturity of global brain responses predict inhibitory control in children.** *Nature communications*
  Cai, W., Duberg, K., Padmanabhan, A., Rehert, R., Bradley, T., Carrion, V., Menon, V.
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- **Faster learners transfer their knowledge better: Behavioral, mnemonic, and neural mechanisms of individual differences in children's learning.** *Developmental cognitive neuroscience*
  Chang, H., Rosenberg-Lee, M., Qin, S., Menon, V.
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- **Development of human emotion circuits investigated using a Big-Data analytic approach: Stability, reliability, and robustness.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Zhang, Y., Padmanabhan, A., Gross, J. J., Menon, V.
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- **Impaired voice processing in reward and salience circuits predicts social communication in children with autism.** *eLife*
  Abrams, D. A., Padmanabhan, A., Chen, T., Odriozola, P., Baker, A. E., Kochalka, J., Phillips, J. M., Menon, V.
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  Chen, L. n., Wassermann, D. n., Abrams, D. A., Kochalka, J. n., Gallardo-Diez, G. n., Menon, V. n.
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- **The Triple Network Model, Insight, and Large-Scale Brain Organization in Autism** *BIOLOGICAL PSYCHIATRY*
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- **Dysregulated Brain Dynamics in a Triple-Network Saliency Model of Schizophrenia and Its Relation to Psychosis.** *Biological psychiatry*
  Supekar, K., Cai, W., Krishnadas, R., Palaniyappan, L., Menon, V.
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- **Deficits in mesolimbic reward pathway underlie social interaction impairments in children with autism.** *Brain : a journal of neurology*
  Supekar, K., Kochalka, J., Schaer, M., Wakeman, H., Qin, S., Padmanabhan, A., Menon, V.
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- **Uncovering hidden brain state dynamics that regulate performance and decision-making during cognition.** *Nature communications*
  Taghia, J., Cai, W., Ryali, S., Kochalka, J., Nicholas, J., Chen, T., Menon, V.
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  Cai, W., Chen, T., Szegletes, L., Supekar, K., Menon, V.
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- **The Default Mode Network in Autism.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
  Padmanabhan, A., Lynch, C. J., Schaer, M., Menon, V.
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- **Parietal hyper-connectivity, aberrant brain organization, and circuit-based biomarkers in children with mathematical disabilities** *DEVELOPMENTAL SCIENCE*
  Jolles, D., Ashkenazi, S., Kochalka, J., Evans, T., Richardson, J., Rosenberg-Lee, M., Zhao, H., Supekar, K., Chen, T., Menon, V.
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- **Distinct Global Brain Dynamics and Spatiotemporal Organization of the Salience Network** *PLOS BIOLOGY*
  Chen, T., Cai, W., Ryali, S., Supekar, K., Menon, V.
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  Abrams, D. A., Chen, T., Odriozola, P., Cheng, K. M., Baker, A. E., Padmanabhan, A., Ryali, S., Kochalka, J., Feinstein, C., Menon, V.
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- **Anhedonia and general distress show dissociable ventromedial prefrontal cortex connectivity in major depressive disorder** *TRANSLATIONAL PSYCHIATRY*
  Young, C. B., Chen, T., Nusslock, R., Keller, J., Schatzberg, A. F., Menon, V.
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- **Remediation of Childhood Math Anxiety and Associated Neural Circuits through Cognitive Tutoring.** *journal of neuroscience*
  Supekar, K., Iuculano, T., Chen, L., Menon, V.
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- **Brain Structural Integrity and Intrinsic Functional Connectivity Forecast 6 Year Longitudinal Growth in Children's Numerical Abilities.** *journal of neuroscience*
  Evans, T. M., Kochalka, J., Ngoon, T. J., Wu, S. S., Qin, S., Battista, C., Menon, V.
  2015; 35 (33): 11743-11750

- **Cognitive tutoring induces widespread neuroplasticity and remediates brain function in children with mathematical learning disabilities.** *Nature communications*
  Iuculano, T., Rosenberg-Lee, M., Richardson, J., Tenison, C., Fuchs, L., Supekar, K., Menon, V.
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  Cai, W., Ryali, S., Chen, T., Li, C. R., Menon, V.
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- **Hippocampal-neocortical functional reorganization underlies children's cognitive development.** *Nature neuroscience*
  Qin, S., Cho, S., Chen, T., Rosenberg-Lee, M., Geary, D. C., Menon, V.
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- **Underconnectivity between voice-selective cortex and reward circuitry in children with autism** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Abrams, D. A., Lynch, C. J., Cheng, K. M., Phillips, J., Supekar, K., Ryali, S., Uddin, L. Q., Menon, V.
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- **Neural predictors of individual differences in response to math tutoring in primary-grade school children.** *Proceedings of the National Academy of Sciences of the United States of America*
  Supekar, K., Swigart, A. G., Tenison, C., Jolles, D. D., Rosenberg-Lee, M., Fuchs, L., Menon, V.
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- **Musical rhythm spectra from Bach to Joplin obey a 1/f power law** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **Developmental Maturation of Dynamic Causal Control Signals in Higher-Order Cognition: A Neurocognitive Network Model** *PLOS COMPUTATIONAL BIOLOGY*
  Supekar, K., Menon, V.
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- **Dynamic Reconfiguration of Structural and Functional Connectivity Across Core Neurocognitive Brain Networks with Development** *JOURNAL OF NEUROSCIENCE*
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  Menon, V.
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- **Large-scale brain networks in cognition: emerging methods and principles** *TRENDS IN COGNITIVE SCIENCES*
  Bressler, S. L., Menon, V.
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- **Disrupted Amygdalar Subregion Functional Connectivity and Evidence of a Compensatory Network in Generalized Anxiety Disorder** *ARCHIVES OF GENERAL PSYCHIATRY*
  Etkin, A., Prater, K. E., Schatzberg, A. F., Menon, V., Greicius, M. D.
  2009; 66 (12): 1361-1372
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  Uddin, L. Q., Menon, V.
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- **Development of Large-Scale Functional Brain Networks in Children** *PLOS BIOLOGY*
  Supekar, K., Musen, M., Menon, V.
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- **Uncovering latent cognitive, metacognitive, and neural bases of problem-solving deficits in children with developmental dyscalculia.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Lasnick, O. H., Park, Y., Mistry, P., Menon, V.
  2026
- **Developmental divergence in voice-reward circuitry differentiates autistic from typically developing children and adolescents.** *Proceedings of the National Academy of Sciences of the United States of America*
  Abrams, D. A., Leipold, S., Odriozola, P., Baker, A. E., Padmanabhan, A., Phillips, J. M., Menon, V.
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  Zhang, Y., Chang, H., El-Said, D., Menon, V.
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- **Attention and social problems are uniquely associated with academic achievement beyond overall psychopathology: multicohort replication in 3,800 participants.** *Journal of child psychology and psychiatry, and allied disciplines*
  Tragoudas, G., Ünal, Z. E., Geary, D. C., Menon, V.
  2026
- **Nonergodicity and Simpson's paradox in neurocognitive dynamics of cognitive control.** *Nature communications*
  Mistry, P. K., Branigan, N. K., Gao, Z., Cai, W., Menon, V.
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  Chang, H., Mistry, P. K., Zhang, Y., Schwartz, F., Menon, V.
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- **Mother-child dyadic interactions shape the developing social brain and Theory of Mind in young children.** *eLife*
  Li, L., Xiao, J., Zhao, W., Zheng, Q., Huang, X., Shan, X., Ming, Y., Wang, P., Wu, Z., Chen, H., Menon, V., Duan, X.
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- **Heterogeneity of human insular cortex: five principles of functional organization across multiple cognitive domains.** *Brain structure & function*
  Cai, W., Menon, V.
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- **Causal dynamics of memory circuits in mathematical development from childhood to adulthood.** *Developmental cognitive neuroscience*
  Liu, R., Chang, H., Zhang, Y., Menon, V.
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- **Neurodevelopmental commonalities in cognitive control networks for mathematics and reading in meta-analysis of 3308 participants.** *Nature communications*
  Ünal, Z. E., Park, Y., Simsek, E., Menon, V., Geary, D. C.
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  Liu, R., Chang, H., El-Said, D., Wassermann, D., Zhang, Y., Menon, V.
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- **Personalized deep neural networks reveal mechanisms of math learning disabilities in children.** *Science advances*
  Strock, A., Mistry, P. K., Menon, V.
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- **Dopaminergic modulation and dosage effects on brain state dynamics and working memory component processes in Parkinson's disease.** *Nature communications*
  Lee, B., Young, C. B., Cai, W., Yuan, R., Ryman, S., Kim, J., Yang, L., Henderson, V. W., Poston, K. L., Menon, V.
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- **Reduced temporal and spatial stability of neural activity patterns predict cognitive control deficits in children with ADHD.** *Nature communications*
  Gao, Z., Duberg, K., Warren, S. L., Zheng, L., Hinshaw, S. P., Menon, V., Cai, W.
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- **Reply to Lockhart et al.: Advancing the understanding of sex differences in functional brain organization with innovative AI tools.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Personalized theta-burst stimulation enhances social skills in young minimally verbal children with autism: a double-blind randomized controlled trial.** *Biological psychiatry*
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- **Symbolic numerical generalization through representational alignment.** *CogSci ... Annual Conference of the Cognitive Science Society. Cognitive Science Society (U.S.). Conference*
  Strock, A., Liu, R., Iyer, R., Mistry, P. K., Menon, V.
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- **Electrophysiological dynamics of salience, default mode, and frontoparietal networks during episodic memory formation and recall revealed through multi-experiment iEEG replication.** *eLife*
  Das, A., Menon, V.
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- **Frequency-specific directed connectivity between the hippocampus and parietal cortex during verbal and spatial episodic memory: an intracranial EEG replication.** *Cerebral cortex (New York, N.Y. : 1991)*
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- **Bayesian Graphical Modeling with the Circular Drift Diffusion Model.** *Computational brain & behavior*
  Villarreal, M., Chávez De la Peña, A. F., Mistry, P. K., Menon, V., Vandekerckhove, J., Lee, M. D.
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- **Resting state functional brain connectivity in child and adolescent psychiatry: where are we now?** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
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  2024

- **Short-term number sense training recapitulates long-term neurodevelopmental changes from childhood to adolescence.** *Developmental science*
  Park, Y., Zhang, Y., Chang, H., Menon, V.
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