

CURRICULUM VITAE
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Certification Date: August 15, 2025

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PERSONAL INFORMATION

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EDUCATION:

Postdoctoral Training	1993-1994	Yale University School of Medicine, New Haven, CT	Department of Neurosurgery and Biophysics, Biochemistry and Biomedical Engineering
Ph.D.	1993	University of Illinois in Champaign-Urbana	Physiological Psychology
M.A.	1989	University of Illinois in Champaign-Urbana	Physiological Psychology
B.S.	1986	Ege University, Izmir Turkey (Suma Cum Laude)	Psychology

PROFESSIONAL EXPERIENCE - EMPLOYMENT HISTORY

2018-2023	Director, Frank Porter Graham Child Development Institute, University of North Carolina
2010-present	Professor, Department of Psychiatry, University of North Carolina School of Medicine
2010-present	Professor, Department of Psychology and Neuroscience, University of North Carolina School of Medicine
2010-present	Adjunct Professor, Department of Radiology and Brain Imaging and Analysis Center, Duke University School of Medicine
2000-present	Director of Neuroimaging Research, Department of Psychiatry, University of North Carolina School of Medicine
2004-present	Director, Neuroimaging and Clinical Translational Research Core, UNC Intellectual and Developmental Disabilities Research Center
2004-2010	Associate Professor, Department of Psychiatry, University of North Carolina School of Medicine



2004-2010	Adjunct Associate Professor, Department of Radiology and Brain Imaging and Analysis Center, Duke University School of Medicine
2001-2004	Assistant Professor, Department of Radiology and Brain Imaging and Analysis Center, Duke University School of Medicine
2000-2004	Assistant Professor, Department of Psychology, University of North Carolina
2000-2004	Assistant Professor, Department of Psychiatry, University of North Carolina School of Medicine
1995-1999	Assistant Professor, Department of Psychiatry, Yale University School of Medicine, New Haven, CT Research Scientist, West Haven VA Connecticut Healthcare System
1996-1999	Lecturer, Department of Psychology, Yale University, New Haven, CT Research Scientist, West Haven VA Connecticut Healthcare System
1994-1995	Instructor, Department of Psychiatry, Yale University School of Medicine, New Haven, CT

PROFESSIONAL HONORS AND AWARDS

2019	Fellow, American College of Neuropsychopharmacology
2018	UNC Psychiatry Haizlip-Mcree Award for Excellence in Education of Child and Adolescent Psychiatry Fellows.
2009	Kavli Fellow, National Academy of Sciences
2006	Joseph Zubin Memorial Award for contributions to research in psychopathology
2005	University of North Carolina Chancellor's <i>RUTH AND PHILLIP HETTLEMAN</i> PRIZE for Artistic and Scholarly Achievement Award
2004	NARSAD (National Alliance for Schizophrenia & Depression) Independent Investigator Award
2004	ACNP Travel Award
1999	NARSAD (National Alliance for Schizophrenia & Affective Disorders) Young Investigator Award
1998	Young Scientist Award, Winter Workshop on Schizophrenia
1996	NARSAD (National Alliance for Schizophrenia & Affective Disorders) Young Investigator Award
1992	University of Illinois Graduate College Dissertation Research Grant
1992	Phi Kappa Phi Honor Society
1992	American Psychological Association Dissertation Research Award
1991	Outstanding Teacher (Brain and Behavior, 2 semesters)
1991	Nominated for the Harriet and Charles Luckman Undergraduate Teaching Award
1991	Nominated for the College of LAS Annual Award for Excellence in Undergraduate Teaching
1990	Outstanding Teacher (Brain and Behavior)



1988

Excellent Teacher (Statistics)

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CHAPTERS, BOOKS

1. Hill, S.N., & **Belger A.** (2020). Neurobiological consequences of child maltreatment. In R. Geffer, J. White, L. Hamberger, A. Rosenbaum, V. Vaughn-Eden, & V. Vieth (Eds.), *Handbook of interpersonal violence across the lifespan* (pp. 1-18). Springer. DOI 10.1007/978-3-319-62122-7_316-1
2. **Belger A.**, Schipul S, Carpenter K. (2013) Imaging the Neural Correlates of Behavioral and Cognitive Shifts in Autism. In: Patel V, Preedy V, Martin C. (Ed.) *The Comprehensive Guide to Autism: Springer Reference* (www.springerreference.com). Springer-Verlag Berlin Heidelberg, p. 963-985. 2013-03-14 06:14:46 UTC
3. **Belger A.**, Hart SJ, Davenport M, Hooper RS. (2010) Cognitive and Behavioral Manifestations in Turner Syndrome. In: R. D. Nass and F. Yitzchak, (Eds). *Cognitive and Behavioral Abnormalities of Pediatric Diseases*. New York, NY, Oxford University Press, p. 232-244.
4. **Belger A.**, Barch D. (2009) Cognitive Neuroscience and Neuroimaging in Schizophrenia. In: D. Charney and E. J. Nestler, (Eds). *Neurobiology of Mental Illness, 3rd Edition*. NY, New York, Oxford University Press, p. 303-320.
5. **Belger A.**, Dichter G. (2006) Structural and Functional Neuroanatomy. In: J. Lieberman D. Perkins, & S. Stroup (Eds). *The American Psychiatric Press Textbook of Schizophrenia*. VA, Arlington: APA Press, p. 167-186.
6. Krystal JK, **Belger A.**, Abi-Saab W, Moghaddam B, Charney DS, Anand A, Madonick S, D'Souza C. (2000) Glutamatergic Contributions to Cognitive Dysfunction in Schizophrenia. In: P.D. Harvey and T. Sharma (Eds). *Cognition in Schizophrenia, Impairments, Importance, and Treatment Strategies*. New York: Oxford University Press, p. 126-153.

REFEREED PAPERS/ARTICLES/PUBLISHED ABSTRACTS

Original Research Articles (195+)

1. Duda M, Chen J, Belger A, Ford J, Mathalon D, Preda A, Turner J, Van Erp T, Pearlson G, Calhoun VD. Functionally Adaptive Structural Basis Sets of the Brain: A Dynamic Fusion Approach. *Hum Brain Mapp.* 2025 Aug 1;46(11):e70302. doi:10.1002/hbm.70302. PMID: 40748017; PMCID: PMC12314923.
2. Ku BS, Hamilton H, Yuan Q, Parker DA, Roach BJ, Bachman PM, Belger A, Carrión RE, Duncan E, Johannesen JK, Light GA, Niznikiewicz MA, Addington J, Bearden CE, Cadenhead KS, Cannon TD, Cornblatt BA, Keshavan M, Perkins DO, Stone W, Woods SW, Walker E, Mathalon DH. Neighborhood social fragmentation in relation to impaired mismatch negativity among youth at clinical high risk for psychosis and healthy comparisons. *Neuropsychopharmacology.* 2025 Aug;50(9):1446-1454. doi: 10.1038/s41386-025-02093-4. Epub 2025 Apr 2. PMID:40175526; PMCID: PMC12259929.
3. Soleimani N, Iraj A, van Erp TGM, Belger A, Calhoun VD. A method for estimating dynamic functional network connectivity gradients (dFNG) from ICA captures smooth inter-network modulation. *bioRxiv [Preprint]*. 2024 Jun18:2024.03.06.583731. doi: 10.1101/2024.03.06.583731. Update in: *Hum Brain Mapp.* 2025 Jul;46(10):e70262. doi: 10.1002/hbm.70262. PMID: 38559041; PMCID:PMC10979844.



4. Soleimani N, Iraj A, van Erp TGM, Belger A, Calhoun VD. A Method for Estimating Dynamic Functional Network Connectivity Gradients (dFNGs) From ICA Captures Smooth Inter-Network Modulation. *Hum Brain Mapp.* 2025Jul;46(10):e70262. doi: 10.1002/hbm.70262. PMID: 40626410; PMCID: PMC12235489.
5. Walsh EC, Prim JH, Gibson K, Hynd M, Phillips RD, Dichter GS, Nathan MD, Lundegard L, Schiff L, Bizzell J, Belger A, Rubinow DR, Schiller CE. Effects of estradiol administration on brain activation and anhedonia in perimenopausal women: A pharmacofMRI study. *J Affect Disord.* 2025 Jun 1;378:340-349. doi:10.1016/j.jad.2025.01.033. Epub 2025 Jan 19. PMID: 39837465.
6. Ridenour TA, O'Shea Gottfredson N, Williams J, Shaw DS, Reynolds MD, Roberts CA, Spoth R, Garnica-Agudelo DR, Baran I, Belger A, Fishbein DH. The Youth RiskIndex: psychometrics, predicting the initiation of early adolescent substance use, and the breadth of liability detected. *Front Child Adolesc Psychiatry.* 2025Jun 27;4:1513607. doi: 10.3389/frcha.2025.1513607. PMID: 40656027; PMCID:PMC12245781.
7. Carrión RE, John M, Dorvil S, Auther A, McLaughlin D, Arnovitz M, Bachman P, Belger A, Duncan E, Hamilton H, Johannesen J, Ku B, Light G, Niznikiewicz M, Roach BJ, Addington J, Bearden CE, Cadenhead KS, Cannon TD, Keshavan M, Perkins DO, Stone WS, Tsuang M, Walker EF, Woods SW, Mathalon DH, Cornblatt BA. Exploring the pathways between early auditory processing, processing speed, social cognition, and negative symptoms on social functioning in individuals at clinical high risk for psychosis: A structural equation modeling approach. *Biol Psychiatry.* 2025 Jul 7:S0006-3223(25)01309-5. doi:10.1016/j.biopsych.2025.06.033. Epub ahead of print. PMID: 40633882.
8. Mathalon DH, Nicholas S, Roach BJ, Billah T, Lavoie S, Whitford T, Hamilton HK, Addamo L, Anohkin A, Bekinshtein T, Belger A, Buccilli K, Cahill J, Carrión RE, Damiani S, Dzafic I, Ebdrup BH, Izyurov I, Jarcho J, Jenni R, Jo A, Kerins S, Lee C, Martin EA, Mayol-Troncoso R, Niznikiewicz MA, Parvaz M, Pogarell O, Prieto-Montalvo J, Rabin R, Roalf DR, Rogers J, Salisbury DF, Shaik R, Shankman S, Stevens MC, Suen YN, Swann NC, Tang X, Thompson JL, Tso I, Wenzel J, Zhou JH, Addington J, Alameda L, Arango C, Breitborde NJK, Broome MR, Cadenhead KS, Calkins ME, Castillo-Passi RI, Chen EYH, Choi J, Conus P, Corcoran CM, Cornblatt BA, Diaz-Caneja CM, Ellman LM, Fusar-Poli P, Gaspar PA, Gerber C, Glenthøj LB, Horton LE, Hui CLM, Kambeitz J, Kambeitz-Illankovic L, Keshavan MS, Kim M, Kim SW, Koutsouleris N, Kwon JS, Langbein K, Mamah D, Mittal VA, Nordentoft M, Pearlson GD, Perez J, Perkins DO, Powers AR, Sabb FW, Schiffman J, Shah JL, Silverstein SM, Smesny S, Stone WS, Strauss GP, Uthegrove R, Verma SK, Wang J, Wolf DH, Zhang T, Bouix S, Pasternak O, Cho KK, Coleman MJ, Dwyer D, Nunez A, Tamayo Z, Wood SJ, Kahn RS, Kane JM, McGorry PD, Bearden CE, Nelson B, Woods SW, Shenton ME; Accelerating Medicines Partnership@Schizophrenia Program; Light GA. The electroencephalography protocol for the Accelerating Medicines Partnership@Schizophrenia Program: Reliability and stability of measures. *Schizophrenia (Heidelb).* 2025 Jun 6;11(1):85. doi: 10.1038/s41537-025-00622-0. PMID: 40480970; PMCID: PMC12144291.
9. Duda M, Faghiri A, Belger A, Bustillo JR, Ford JM, Mathalon DH, Mueller BA, Pearlson GD, Potkin SG, Preda A, Sui J, Van Erp TGM, Calhoun VD. Alterations in Gray Matter Structure Linked to Frequency-Specific Cortico-Subcortical Connectivity in Schizophrenia via Multimodal Data Fusion. *Neuroinformatics.* 2025Apr 26;23(2):31. doi: 10.1007/s12021-025-09728-3. PMID: 40285903.
10. Fouladivanda M, Iraj A, Wu L, van Erp TGM, Belger A, Hawamdeh F, Pearlson GD, Calhoun VD. A spatially constrained independent component analysis jointly informed by structural and functional network connectivity. *bioRxiv [Preprint].* 2024 Jun 1:2023.08.13.553101. doi:



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11. Chen P, Li Y, Zadrozny S, Seifer R, Belger A. Polygenic risk, childhood abuse and gene x environment interactions with depression development from middle to late adulthood: A U.S. national life-course study. *Prev Med*. 2024 Aug;185:108048. doi: 10.1016/j.ypmed.2024.108048. Epub 2024 Jun 19. PMID:38906275.
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 16. Hamilton HK, Roach BJ, Bachman PM, Belger A, Carrión RE, Duncan E, Johannesen JK, Light GA, Niznikiewicz MA, Addington J, Bearden CE, Cadenhead KS, Cornblatt BA, Perkins DO, Tsuang MT, Walker EF, Woods SW, Cannon TD, Mathalon DH. Mismatch Negativity as an Index of Auditory Short-Term Plasticity: Associations with Cortisol, Inflammation, and Gray Matter Volume in Youth at Clinical High Risk for Psychosis. *Clin EEG Neurosci*. 2025 Jan;56(1):46-59. doi: 10.1177/15500594241294035. Epub 2024 Nov 18. PMID: 39552576.
 17. Roubinov DS, Belger A. Multisystem stress response biotypes: a precision psychiatry approach to identifying and treating multidimensional risk factors for anhedonia in adolescence. *Neuropsychopharmacology*. 2024 Nov;50(1):318-319.doi: 10.1038/s41386-024-01953-9. Erratum in: *Neuropsychopharmacology*. 2025May;50(6):1019-1020. doi: 10.1038/s41386-025-02087-2. PMID: 39117900; PMCID:PMC11525919.
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 19. İmamoğlu A, Wahlheim CN, Belger A, S Giovanello K. Impaired mnemonic discrimination in children and adolescents at risk for schizophrenia. *Schizophrenia (Heidelb)*. 2023 Jun 21;9(1):39. doi: 10.1038/s41537-023-00366-9. PMID: 37344455; PMCID: PMC10284829.



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22. Soleimani N, Iraj A, van Erp TGM, Belger A, Calhoun VD. A method for estimating dynamic functional network connectivity gradients (dFNG) from ICA captures smooth inter-network modulation. *bioRxiv [Preprint].* 2024 Jun 18:2024.03.06.583731. doi: 10.1101/2024.03.06.583731. PMID: 38559041; PMCID: PMC10979844.
23. Fouladivanda M, Iraj A, Wu L, van Erp TGM, Belger A, Hawamdeh F, Pearlson GD, Calhoun VD. A spatially constrained independent component analysis jointly informed by structural and functional network connectivity. *bioRxiv [Preprint].* 2024 Jun 1:2023.08.13.553101. doi: 10.1101/2023.08.13.553101. PMID: 38853973; PMCID: PMC11160563.
24. Male AG, Goudzwaard E, Nakahara S, Turner JA, Calhoun VD, Mueller BA, Lim KO, Bustillo JR, Belger A, Voyvodic J, O'Leary D, Mathalon DH, Ford JM, Potkin SG, Preda A, van Erp TGM. Structural white matter abnormalities in Schizophrenia and associations with neurocognitive performance and symptom severity. *Psychiatry Res Neuroimaging.* 2024 Aug;342:111843. doi: 10.1016/j.pscychresns.2024.111843. Epub 2024 Jun 6. PMID: 38896909.
25. Chen P, Li Y, Zadrozny S, Seifer R, Belger A. Polygenic risk, childhood abuse and gene x environment interactions with depression development from middle to late adulthood: A U.S. national life-course study. *Prev Med.* 2024 Aug;185:108048. doi: 10.1016/j.ypmed.2024.108048. Epub 2024 Jun 19. PMID: 38906275.
26. Peterson EJ, Rosen BQ, Belger A, Voytek B, Campbell AM. Aperiodic Neural Activity is a Better Predictor of Schizophrenia than Neural Oscillations. *Clin EEG Neurosci.* 2023 Jul;54(4):434-445. doi: 10.1177/15500594231165589. Epub 2023 Jun 7. PMID: 37287239.
27. Meng X, Iraj A, Fu Z, Kochunov P, Belger A, Ford JM, McEwen S, Mathalon DH, Mueller BA, Pearlson G, Potkin SG, Preda A, Turner J, van Erp TGM, Sui J, Calhoun VD. Multi-model order spatially constrained ICA reveals highly replicable group differences and consistent predictive results from resting data: A large N fMRI schizophrenia study. *Neuroimage Clin.* 2023;38:103434. doi: 10.1016/j.nicl.2023.103434. Epub 2023 May 17. PMID: 37209635; PMCID: PMC10209454.
28. Motlaghian SM, Vahidi V, Belger A, Bustillo JR, Faghiri A, Ford JM, Iraj A, Lim K, Mathalon DH, Miller R, Mueller BA, O'Leary D, Potkin SG, Preda A, van Erp TG, Calhoun VD. A Method For Estimating And Characterizing Explicitly Nonlinear Dynamic Functional Network Connectivity In Resting-State fMRI Data. *J Neurosci Methods.* 2023 Jan 15:109794. doi: 10.1016/j.jneumeth.2023.109794. Epub ahead of print. PMID: 36652974.
29. Cheon EJ, Male AG, Gao B, Adhikari BM, Edmond JT, Hare SM, Belger A, Potkin SG, Bustillo JR, Mathalon DH, Ford JM, Lim KO, Mueller BA, Preda A, O'Leary D, Strauss GP, Ahmed AO, Thompson PM, Jahanshad N, Kochunov P, Calhoun VD, Turner JA, van Erp TGM. Five negative symptom domains are differentially associated with resting state amplitude of low frequency



- fluctuations in Schizophrenia. *Psychiatry Res Neuroimaging*. 2023 Mar;329:111597. doi: 10.1016/j.pscychresns.2023.111597. Epub 2023 Jan 16. PMID: 36680843.
30. Duncan E, Roach BJ, Massa N, Hamilton HK, Bachman PM, Belger A, Carrion RE, Johannesen JK, Light GA, Niznikiewicz MA, Addington JM, Bearden CE, Cadenhead KS, Cannon TD, Cornblatt BA, McGlashan TH, Perkins DO, Tsuang M, Walker EF, Woods SW, Nasiri N, Mathalon DH. Auditory N100 amplitude deficits predict conversion to psychosis in the North American Prodrome Longitudinal Study (NAPLS-2) cohort. *Schizophr Res*. 2022 Oct;248:89-97. doi: 10.1016/j.schres.2022.07.019. Epub 2022 Aug 19. PMID: 35994912.
 31. Banich M, Belger A. Neural mechanisms of adaptive change to stress and challenge: Introduction to the special section. *Cogn Affect Behav Neurosci*. 2022 Aug;22(4):641-642. doi: 10.3758/s13415-022-01023-x. Epub 2022 Jul 7. PMID: 35799030; PMCID: PMC9263049.
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 33. Motlaghian SM, Belger A, Bustillo JR, Ford JM, Iraj A, Lim K, Mathalon DH, Mueller BA, O'Leary D, Pearlson G, Potkin SG, Preda A, van Erp TGM, Calhoun VD. Nonlinear functional network connectivity in resting functional magnetic resonance imaging data. *Hum Brain Mapp*. 2022 Oct 15;43(15):4556-4566. doi: 10.1002/hbm.25972. Epub 2022 Jun 28. PMID: 35762454; PMCID: PMC9491296.
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 35. Glier S, Campbell A, Corr R, Pelletier-Baldelli A, Belger A. Individual differences in frontal alpha asymmetry moderate the relationship between acute stress responsivity and state and trait anxiety in adolescents. *Biol Psychol*. 2022 Jul;172:108357. doi: 10.1016/j.biopsycho.2022.108357. Epub 2022 May 31. PMID: 35662579.
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context processing. *Schizophr Res Cogn*. 2022 Feb 11;28:100241. doi: 10.1016/j.scog.2022.100241. PMID: 35242610; PMCID: PMC8861422.

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2. Corr RL, **Belger, A** (In Press). Stress-Related Hippocampus Activation Mediates the Association Between Polyvictimization and Trait Anxiety in Adolescents. *Journal of Social Cognitive and Affective Neuroscience.*
3. **Belger A**, et al. (In Submission). Reward processing in novelty seekers: a common transdiagnostic psychiatric imaging biomarker. *Nature Medicine.*

(Refereed) Published Abstracts at National and International Meetings

1. Gao B, Adhikari B, Cheon E, **Belger A**, Potkin S, et.al. Spontaneous Brain Activity is associated with SANS-based Negative Symptom Domains in Schizophrenia. *OHBM 2021.*
2. Cheon E, Gao B, Adhikari B, Edmund J, **Belger A**, et.al. Amplitude of low-frequency fluctuations is associated with Negative Symptom Domains in Schizophrenia. *OHBM 2021.*
3. Ferguson A, Campbell A, **Belger A**, Niethammer M, Mucha P. Flexibility Signatures in EEG Temporal Networks of Working Memory. *SIAMNS 2020.*
4. **Belger A**, Mittal V, Vargas T, Pelletier-Baldelli A, Mizrahi R, Copeland B. Stress and Developmental Risk for Psychopathology: From Epigenetics to Brain Circuits. Presented at the 74th Annual meeting for the Society of Biological Psychiatry, Chicago, IL, May 16-18, 2019.



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10. Killian-Farrell C, Williams A, Bizzell J, Waltz H, Andersen E, Pruessner H, **Belger A**. Adolescent Maturation of Stress Regulatory Brain Circuits. 72nd Annual Meeting of the Society of Biological Psychiatry. San Diego, CA, May 18-20, 2018.
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 20. Andersen E. Campbell A, **Belger A**. Dysregulated Affective Neural Processing in Schizophrenia Patients and Controls Following Psychosocial Stress Exposure. Abstract presentation SOBP May 16-20 2017, San Diego, CA
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 22. **Belger A.**, Killian-Farrell C. Stress and Anxiety Impact Maturation of Adolescent Neural Circuitry involved in Emotion and Reward Processing. Presented at SSWR January 11-17 2017, New Orleans LA.
 23. Belger A, Campbell A, Andersen E. Converging Evidence of Aberrant Neural Synchrony in Schizophrenia. Abstract presentation International Organization of Psychophysiology, August 31-September 4, 2016.
 24. **Belger A**. Organization for Human Brain Mapping 22nd Annual Meeting, Geneva, Switzerland, June 26-30, 2016.
 25. Mathalon D, Roach B, Belger A, Cadenhead K, Carrion R, Duncan E, Johannesen J, Loo S, Niznikiewicz M, Addington J, Bearden C, Cannon T, Cornblatt B, McGalshan T, Perkins D, Siedman L, Tsuang M, Walker E, Woods S. Deficient Visual Cortical Plasticity Predicts Transition to Psychosis in Individuals with the Psychosis-Risk Syndrome: An Interim Analysis of the North American Prodrome Longitudinal Study. Abstract presentation Society for Research in Psychopathology, September 14-September 17, 2017.
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 27. Schipul SE, Baranek, GT, Campbell AM, **Belger A**. Neural Adaptation during Learning in ERPs to Visual Target Detection in Children with ASD. Poster presentation International Meeting for Autism Research, May 11-14, 2016.
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32. Weber M, Bizzell J, Johnson J, Melton E, Elbogen E, **Belger A**. Cognitive control and affective processing dysregulation in veterans with comorbid ptsd and tbi: An fmri and resting state functional connectivity study. Poster presentation Society of Neuroscience 45th Annual Meeting, October 17-21, 2015.
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 47. Shaffer J, Chen N, Hart S, Bizzell J, **Belger A**. Functional Connectivity Differences Associated with Symptom Severity and Cognitive Deficits in Recent Onset Schizophrenia. Society for Neuroscience, New Orleans, 2012
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 52. Perkins, D., Grewen, K., **Belger, A.**, Ramsey, S., Lansing, K., Evans, J (2011). Stress Reactivity in Persons at Familial Risk for Schizophrenia, *American College of Neuropsychopharmacology*, Waikoloa, Hawaii, December 4-8, 2011.
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55. Yucel G, **Belger A.** Relationship between Novelty Changes Detection and Autistic Traits in Adolescents with Autism. 65th Annual Convention of the Society of Biological Psychiatry, New Orleans LA, May 20-22, 2010. *Biological Psychiatry*, 67(9):136.
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60. Mathalon DH, Jorgensen KW, Roach BJ, Calhoun VD, Diaz MT, Brown GG, Notestine R, Bischoff-Grethe A, Greve D, McCarthy G, Belger A, Turner JA, Potkin SG, Wible CG, Mueller BA, Lauriello J, Glover GH, Lim KO, O'Leary DS, Preda A, Keator D, Erp VT, FBIRN, Ford JM. Failure of Normal Aging-Related Hemispheric Asymmetry Reduction in Brain Activity During Target Detection in Schizophrenia. 65th Annual Convention of the Society of Biological Psychiatry, New Orleans LA, May 20-22, 2010. *Biological Psychiatry*, 67(9):865.
61. **Belger A.** The Neuronal Circuitry of Autism. Presented at the Staging Neuropsychiatric Disorders: Implications for Etiopathogenesis and Treatment International Meeting organized by Fundación Cerebro y Mente and Psychiatry Department, Hospital Universitario, Mojácar (Almería) Spain, Oct. 16, 2009.
62. Brown GC, presenter and **Function Biomedical Informatics Research Network (FBIRN)**. The Impact of Breath Hold BOLD Calibration on Between Site Reliability of Cognitive BOLD Data. 15th Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, June 19, 2009.
63. Abe S, presenter, **Function Biomedical Informatics Research Network (FBIRN)**. DTI Co-registration Method Comparison Based on DTI Tractography Analysis in the Human Brain. 15th Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, June 19, 2009.
64. Jorgensen KW, presenter, and **Function Biomedical Informatics Research Network (FBIRN)**. Assessing the Impact of fMRI Data Quality on Group Level Analyses in the FBIRN Multi-site Study of Schizophrenia Patients and Healthy controls. 15th Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, June 19, 2009.
65. Greve DN, presenter, and **Function Biomedical Informatics Research Network (FBIRN)**. fMRI Hemodynamic Response Amplitude Repeatability Across Multiple Sites. 15th Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, June 19, 2009.
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67. Ford JM, presenter, and **Function Biomedical Informatics Research Network (FBIRN)**. Functional Pathology Progresses with Age in Schizophrenia. 15th Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, June 21, 2009.
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 75. **Belger A**. Mapping the Development of Cortical Circuits through Adolescents in Healthy Subjects and Neurodevelopmental Disorders. Symposium Chair, Society of Biological Psychiatry, Washington, DC, May 3, 2008.
 76. Harrell WR, Icard PF, Bizzell J, Kitson R, **Belger A**, Hooper SR, Gipson DS.. Functional MRI and Working Memory in Children with Chronic Kidney Disease (Abstract). *Journal of the International Neuropsychological Society*, Volume 14, Supplement S1. (published online: Feb. 2008)DOI: 10.1017/S1355617708080430.
<http://journals.cambridge.org/action/displayIssue?jid=INS&volumeld=14&issueld=S1>.
 77. Hart SJ, Perkins DO, Gerig G, Blocher J, Bizzell J, Woodlief J, Gu H, **Belger A**. Multimodal Neuroimaging of Executive-emotional Processing in Adolescents at Genetic Risk for Schizophrenia. Poster presented at the 14th annual meeting for the Organization for Human Brain Mapping, Melbourne, Australia, 2008.
 78. Hart SJ, Bizzell J, Woodlief J, **Belger A**. Neuroimaging Executive-emotional Processing in Adolescents at Genetic Risk for Schizophrenia. 63rd Annual Convention of the Society of Biological Psychiatry, Washington, DC, 2008. *Biological Psychiatry*, 63(7) 693.
 79. Grewen KM, Davenport R, **Belger A**. An fMRI Investigation of Maternal Neural Circuitry. 63rd Annual Convention of the Society of Biological Psychiatry Meeting, Washington, DC, 2008.



Biological Psychiatry, 63(7): 336.

80. Carpenter KLH, Dichter G, **Belger A**. Functional Neuroimaging of Social and Executive Processes in Individuals with Autism. 63rd Annual Convention of the Society of Biological Psychiatry, Washington, DC, 2008. *Biological Psychiatry*, 63(7):612.
81. **Belger A**. Altered Brain Growth and Structure in Children and Adolescents at Genetic Risk for Schizophrenia. 63rd Annual Convention of the Society of Biological Psychiatry, Washington, DC 2008. *Biological Psychiatry*, 63(7): 124.
82. Ford JM, Roach BJ, Turner J, Brown G, McCarthy G, Wible C, Potkin DK, Greve D, **Belger A**, O'Leary D, Lauriello J, Mueller B, Lim KO, Glover G, Calhoun V, Mathalon DH. Tones and "Voices" Compete for Auditory Cortical Resources: Multi-site fMRI Study of Schizophrenia. 63rd Annual Convention of the Society of Biological Psychiatry, Washington, DC, 2008. *Biological Psychiatry*, 63(7): 693.
83. **Belger A**. Functional Cortical Alterations in Children and Adolescents at Genetic Risk for Schizophrenia. 63 Annual Convention of the Society of Biological Psychiatry, Washington, DC, 2008. *Biological Psychiatry*, 63(7): 757.
84. Hart SJ, Bizzell J, Woodlief J, **Belger A**. Neuroimaging Executive-emotional Processing in Adolescents at Genetic Risk for Schizophrenia. Oral presentation at the Radiology-Biomedical Research Imaging Center Symposium, Chapel Hill, NC, 2008.
85. **Belger A**, Keefe R, Hamer R, Morey R, McClure R, Bizzell J, Jarskog F, Lieberman J. Effects of Risperidone and Olanzapine on Frontal and Temporal Cortical Function and fMRI Activation in Schizophrenia. ACNP, Boca Raton, FL, Dec. 10, 2007.
86. Krystal JH, Souza D, Cavus I, Mathalon D, Petrakis I, **Belger A**, Anand D, Charney D, Abi-Saab W, Spencer D. Cognitive Impairments Related to Cortical Distribution: Metabotropic Glutamate Receptor Agonist Treatments for Schizophrenia. ACNP 46th Annual Meeting, Boca Raton, FL. Dec. 10, 2007.
87. Marks CE, Williams RC, Katumkeeryil E, Perkins DO, **Belger A**, Penn DL. Investigation of Social Skill Deficits in Adolescents at Genetic Risk for Psychosis. Poster accepted at ABCT (Association for Behavioral and Cognitive Therapies) Philadelphia, PA, Nov. 15-18, 2007.
88. Lewis MM, Slagle CG, Smith AB, Truong Y, Bai P, McKeown M, Mailman R, Belger A, Huang XM. Task Specific Influences of Parkinson's Disease on the Striato-thalamo-cortical and Cerebello-thalamo-cortical Motor Circuitries. 132nd Annual Meeting of the American Neurological Association, Washington, DC, Oct 7-10, 2007. *Annals of Neurology*, 62S37.
89. Dichter GS, **Belger A**. Atypical Modulation of Cognitive Control by Arousal in Autism. Poster presented at the Radiology-Biomedical Research Imaging Center (BRIC) Symposium, Chapel Hill, NC, May 10, 2007.
90. Grewen, KM, Lin W, **Belger A**. Does Cocaine Use During Pregnancy Alter Neural Response to Infant Related Cues in the Early Postpartum Period? Poster presented at the Radiology-Biomedical Research Imaging Center (BRIC) Symposium, Chapel Hill, NC, May 10, 2007.
91. Hart SJ, **Belger A**. Functional Neuroimaging Executive Distraction Effects in Schizophrenia. Poster presented at the Radiology-Biomedical Research Imaging Center (BRIC) Symposium, Chapel Hill, NC, May 10, 2007.
92. Hart, SJ, **Belger A**. Emotional Distraction Effects on Active Maintenance of Abstract Rules. Poster presented at the Radiology-Biomedical Research Imaging Center (BRIC) Symposium, Chapel Hill, NC, May 10, 2007.



93. Icard PF, Harrell WR, Gipson DS, Hooper SR, **Belger A**. Functional MRI and Working Memory in Children with Chronic Kidney Disease. Poster presented at the Radiology-Biomedical Research Imaging Center (BRIC) Symposium, Chapel Hill, NC, May 10, 2007.
94. **Belger A**, Gerig G, Blocher J, Gu H, Perkins DO, Gilmore J. Altered Brain Growth and Structure in Children and Adolescents at Genetic Risk for Schizophrenia. 10th International Congress on Schizophrenia Research, Savannah, GA. April 2-6, 2007. *Schizophrenia Bulletin*, 33(2):328-329.
95. Krystal JH, Madonick S, Perry E, Gueorguieva R, Brush L, Wray Y, **Belger A**, D'Souza DC. Potentiation of Low Dose Ketamine Effects by Naltrexone: Potential Implications for the Pharmacotherapy of Alcoholism. 29th Annual Meeting of the Research Society on Alcoholism, Baltimore, MD. June 23-29, 2006. *Alcoholism Clinical and Experimental Research*, 30(6):104A.
96. **Belger A**, Carter J, Dichter G. Abnormal Fronto-Limbic Interactions in Schizophrenia Revealed by fMRI. 13th Biennial Winter Workshop on Schizophrenia Research, Davos Switzerland, Feb 4-6, 2006. *Schizophrenia Research*, 81144.
97. **Belger A**, Perkins DO, Lieberman J. Neuroimaging and Electrophysiological Studies of Auditory Executive Functions in Clinically Prodromal and Genetic High-Risk Individuals. 13th Biennial Winter Workshop on Schizophrenia Research, Davos Switzerland, Feb 4-6, 2006. *Schizophrenia Research*, 81260.
98. **Belger A**, van der Stelt O. Visual and Auditory Event-Related Potentials and Event-Related EEG Oscillations in Prodromal Recent-Onset and Chronic Schizophrenia. *International Journal of Psychophysiology*, 61(3) 310-311SI, 2006.
99. van der Stelt O, Lieberman JA, **Belger A**. Neuroelectrical signs of Selective Attention to Stimulus Color in the Early and Late Stages of Schizophrenia. 60th Annual Convention of the Society of Biological Psychiatry, May 19-21, 2005. *Biological Psychiatry* 57(8) 187.
100. Krystal JH, Perry E, Abi-Saab, D'Souza DC, Liu N, Gueorguieva R, MacDougall L, Hunsberg T, **Belger A**, Levine L, Breier A. Preliminary Evidence of Attenuation of the Disruptive Effects of the NMDA Glutamate Receptor Antagonist, Ketamine, on Working Memory by Pretreatment with the Group II Metabotropic Glutamate Receptor (mGluR) Agonist, LY354740, in Healthy Human Subjects. 20th International Congress on Schizophrenia Research, Savannah, GA, April 2-6, 2005. *Schizophrenia Bulletin*, 31(2):512.
101. Morey RA, Inan S, Rosania G, Hardy S, **Belger A**. Disrupted Task Related Activation to Action Selection and Conflict Resolution in Patients with Schizophrenia. 20th International Congress on Schizophrenia Research, Savannah, GA, April 2-6, 2005. *Schizophrenia Bulletin*, 31(2):428.
102. Perry EB, D'Souza DC, Gueorguieva R, **Belger A**, Madonick SH, Abi-Dargham A, Cooper TB, MacDougall L, Abi-Saab W, Krystal JH. Comparative and Interactive Human Psychopharmacologic Effects of Ketamine and Amphetamine. Implications for Glutamatergic and Dopaminergic Model Psychoses and Cognitive Function. 20th International Congress on Schizophrenia Research, Savannah, GA, April 2-6, 2005. *Schizophrenia Bulletin*, 31(2):514-515.
103. Turner J, Potkin SG, Brown GG, Glover GH, Fallon JH, McCarthy G, Lim KO, Gollub RL, Rosen BR, Toga AW, Kikinis R, Pieper S, Dale AM, Lauriello J, O'Leary DS, Lieberman JA, Belger A, Greve DN, Friedman L, Cannon TD, Keator DB, Grethe JS. Multi-center fMRI Methods and Design: Function BIRN. 20th International Congress on Schizophrenia Research, Savannah, GA, April 2-6, 2005. *Schizophrenia Bulletin*, 31(2):437-438.
104. Potkin S, Brown GG, Glover GH, McCarthy G, Lim KO, Gollub R, Rosen B, Toga A, Kikinis R, Dale A, Lauriello J, O'Leary D, Lieberman J, **Belger A**, Greve D, Friedman L, Cannon T, Fallon J, Keator DB, Grethe JS, Turner JA. Functional Biomedical Informatics Research Network: Multi-Center fMRI Methods. Annual Meeting of the American College of Neuropsychopharmacology,



San Juan, PR, Dec 12-16, 2004. *Neuropsychopharmacology*, S221.

105. **Belger A.** Multimodal Imaging of Fronto-Striate Circuits and Associated Executive Functions in the Prodromal, First Episode and Chronic Stages of Schizophrenia. 42nd Annual Meeting of the American College of Neuropsychopharmacology (ACNP), San Juan, PR, Dec 12-16, 2004. *ACNP Abstract Proceedings*, 156.
106. **Belger A.** Functional Imaging of Neural Circuits Underlying Executive Cognitive Deficits in Autism. Presented at the CPEA-STAAART Meeting, Bethesda, MD, May 17-20, 2004.
107. **Belger A.** Laboratory and Imaging Aids to Diagnosis and Assessment Of Schizophrenia. 2004 Annual Meeting of the American Psychiatric Association Recovering from Schizophrenia: How Treatment Can Improve Outcomes and Prevent Chronicity, NY, May 2, 2004. *Psychiatry News*, 39(4): 7-9.
108. **Belger A.** Integrating Functional MRI and Electrophysiological Data to Characterize the Pathophysiology Associated with Schizophrenia and its Progression. 59th Annual Meeting of the Society for Biological Psychiatry, NY, Apr 29 – May 1, 2004. *Biological Psychiatry*, 55444.
109. van der Stelt O, Lieberman JA, **Belger A.** Impaired Brain Systems of Visual Attention In The Prodromal, Early And Late Stages Of Schizophrenia. 12th Biennial Winter Workshop on Schizophrenia, Davos Switzerland, February 7-13, 2004. *Schizophrenia Research*, 67(1) 133.
110. **Belger A.** Multimodal Neuroimaging of Fronto-Striate Circuits in the Prodrome and Subsequent Stages of Schizophrenia. 12th Biennial Winter Workshop on Schizophrenia, Davos Switzerland, February 7-13, 2004.
111. Turner JA, Lee HJ, Wible C, McCarthy G, Potkin SG, **FIRST BIRN.** The stability of auditory activation in functional magnetic resonance imaging data across sessions and sites. Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, 2004.
112. Turner JA, Potkin SG, Glover G, McCarthy G, Gollub RL, Brown G, Dale A, Grethe JS, Friedman L, Keator DB, **FIRST BIRN.** Biomedical Informatics Research Network: Functional Imaging Research in Schizophrenia Testbed. Annual Meeting of the Organization for Human Brain Mapping, Budapest Hungary, 2004.
113. Zou KH, Greve DN, Wang M, Pieper SD Warfield SK, White NS, Vangel MG, Kikinis R, Wells WM, **FIRST BIRN.** A Prospective Multi-Institutional Study of the Reproducibility of fMRI: A Preliminary Report from the Biomedical Informatics Research Network. Annual Meeting of the Organization for Human Brain Mapping, Budapest Hungary, 2004.
114. Greve DN, White NS, Dale AM, **FIRST-BIRN.** Evaluation of fMRI Sensitivity Across Multiple Sites. Annual Meeting of the Organization for Human Brain Mapping, Budapest Hungary, 2004.
115. Friedman L, Posse S, **FIRST BIRN.** Insights into Multi-Site FMRI Repeatability: Scanner Differences in Sensitivity and Smoothness. Annual Meeting of the Organization for Human Brain Mapping, Budapest Hungary, 2004.
116. Keator DB, Gadde S, Grethe JS, Taylor DV, Potkin SG, **FIRST BIRN.** A General XML Schema and Associated SPM Toolbox for Storage and Retrieval of Neuro-Imaging Results and Anatomical Labels. Annual Meeting of the Organization for Human Brain Mapping, Budapest Hungary, 2004.
117. Ozyurt BI, Wei D, Keator DB, Potkin SG, Brown GG, Grethe JS, Morphometry BIRN, FIRST BIRN, BIRN. Coordinating Center (<http://www.birnnet>) A User-Friendly, Web-Accessible System for the Management, Discovery, Retrieval, and Analysis of Clinical and Brain Imaging Data, Society of Neuroscience, San Diego, CA, 2004.
118. Keator DB, Gadde S, Grethe JS, Taylor DV Potkin SG, FIRST BIRN. A General XML Schema and



- Associated SPM Toolbox for Storage and Retrieval of Neuro-Imaging Results and Anatomical Labels. Abstract and poster presentation at Human Brain Project Neuro-Informatics Meeting, Bethesda, MD, 2004.
119. Zhou KH, Wang M, Pieper SD, Kikinis R, Wells III Wm, FIRST BIRN. Factors Impacting the Reproducibility of Functional MR Imaging: A Prospective Multi-Institutional Study by the Biomedical Informatics Research Network (BIRN). 12th Annual Meeting of the International Society for Magnetic Resonance Imaging (ISMRM), Kyoto, 2004.
 120. Friedman L, Magnotta VA, Posse S, FIRST BIRN. Scanner differences in the Smoothness of fMRI Images: Implications for Multi-Center Studies. 12th Annual Meeting of the International Society for Magnetic Resonance Imaging (ISMRM), Kyoto, 2004.
 121. Glover GH, Foland L, FIRST BIRN. Scanner Quality Assurance for Longitudinal or Multicenter fMRI Studies. 12th Annual Meeting of the International Society for Magnetic Resonance Imaging (ISMRM), Kyoto, 2004.
 122. Glover GH, Thomason ME, Foland L, FIRST BIRN. Calibration of fMRI Activation for the FIRST BIRN Project. 12th Annual Meeting of the International Society for Magnetic Resonance Imaging (ISMRM), Kyoto, 2004.
 123. Magnotta VA, Friedman L, FIRST BIRN. SNR and CNR Measurements in the fBIRN Multicenter Study. 12th Annual Meeting of the International Society for Magnetic Resonance Imaging (ISMRM), Kyoto, 2004.
 124. Glover GH, Foland FC, FIRST BIRN. Scanner Quality Assurance for Longitudinal or Multicenter fMRI Studies, Zurich Switzerland, 2004.
 125. Brown G, Pieper S, Martone M, Aucoin N, Joyner A, Bischoff-Grethe A, Torvik V, FIRST BIRN. The Query Atlas: A Brain Referenced Knowledge Discovery Tool. Abstract in the Proceedings of the Annual Meeting of the Society for Neurosciences, 2004.
 126. J Turner, S Morris, H Lee, C Wible, G Brown, S Potkin, FIRST BIRN. The stability of auditory activation in fMRI across sessions and sites: Initial Calibrations. Abstract in the Proceedings of the Annual Meeting of the Society for Neurosciences, 2004.
 127. Foland LC, Thomason ME, FIRST BIRN, Glover GH. Calibrating Functional MRI Data across Subjects and Scan Sites. Abstract in the Proceedings of the Annual Meeting of the Society for Neurosciences, 2004.
 128. Morris SK, Brown G, Glover GH, Foland LC, Bischoff-Grethe A. Liu T, Ozyurt B, Turner T, FIRST BIRN. The Stability of Sensory Motor Activation In fMRI Across Sites: Initial Calibrations. Abstract in the proceedings of the Annual Meeting of the Society for Neurosciences, 2004.
 129. Potkin SG, Turner JA, Brown GG, Glover GH, Heckers S, Keator DB, Grethe JS, FIRST BIRN. Biomedical Informatics Research Network: Functional Imaging Research in Schizophrenia Testbed. Society for Neuroscience Annual Meeting, New Orleans, LA, 2003.
 130. Turner JA, Potkin SG, Brown GG, Glover GH, Greve D, Keator DB, McCarthy G, Grethe JS, Wible CG, Lim K, Toga AW, Andreasen NC, O'Leary D, FIRST BIRN. Biomedical Informatics Research Network: Integrating Multi-Site Human Functional Imaging Acquisition and Analysis. Biomedical Information Science and Technology Initiative (BISTI) Symposium, Bethesda, MD, 2003.
 131. Yucel GH, Petty C, McCarthy G, **Belger A**. Cortical Activation Evoked by Involuntary Auditory Attention is Resource Limited – an FMRI Study. 33rd Annual Meeting of the Society for Neurosciences, New Orleans Louisiana November 8-12, 2003. *Society for Neuroscience Abstract Viewer and Itinerary Planner* Abstract 401.11.



132. Inan S. and **Belger A.** Visuo-spatial Attention in Novelty Detection. 33rd Annual Meeting of the Society for Neurosciences, New Orleans, Louisiana, November 8-12, 2003. *Society for Neuroscience Abstract Viewer and Itinerary Planner* Abstract 515.12.
133. Krystal JH, Abi-Saab W, Perry E, D'Souza DC, Liu N, McDougall L, **Belger A**, Levine L, Breier A. Modulation of Ketamine-induced Working Memory Deficits in Healthy Human Subjects by the Group II Metabotropic Agonist LY354740. Scientific Meeting of the Research Society on Alcoholism and the 12th Congress of the International Society for Biomedical Research on Alcoholism June 12-25, 2003. Fort Lauderdale, FL. *Alcoholism Clinical and Experimental Research* 27 (5 Suppl)18A.
134. van der Stelt O, Frye J, Lieberman JA, **Belger A.** Event-related Potentials During Visual and Auditory Processing in Schizophrenia. 58th Annual Convention and Scientific Program of the Society of Biological Psychiatry, San Francisco, May 16, 2003. *Biological Psychiatry*, 53(8): 183.
135. Morey RA, Amberger K, Inan S, Lieberman J, **Belger A.** An fMRI Study of Atypical Neuroleptic Effects on Attention in Schizophrenia Patients. Presented at the Biannual Meeting of *the International Congress on Schizophrenia Research*, Colorado Springs, Colorado, March 29 – April 2, 2003.
136. van der Stelt O, Frye J, Lieberman J, **Belger A.** Visual and Auditory Event-related Potentials in Schizophrenia. Biannual Meeting of the International Congress on Schizophrenia Research, Colorado Springs, Colorado, March 29 – April 2, 2003.
137. **Belger A.** Functional Neuroimaging of Cognitive Deficits in Schizophrenia. Presented at the Neuroimaging Science Training Program (NISTP) Seminar at Yale University, New Haven, January 10, 2003.
138. Potkin SG, Andreasen N, Brown G, Glover G, Kikinis R, Lauriello J, Lieberman J, Lim K, McCarley R, McCarthy G, Rosen B, Toga A. Multi-Site Brain fMRI Imaging Studies in Schizophrenia Using the BIRN Methodology and Federated Database Approach. ACNP 41st Annual Meeting, 2002, p. 252-253.
139. **Belger A.** Functional Mapping of the Neural Substrates of Autism. 41st Annual Meeting of the American College of Neuropsychopharmacology, San Juan, PR, December 8-12, 2002.
140. **Belger A**, Maher S, Krystal J, Whistler BC. FMRI and ERP Assessment of Automatic and Controlled Target and Novelty Processing in Schizophrenia. Presented at the Bi-annual Meeting of the International Congress on Schizophrenia Research, April 28-May 2, 2001.
141. Bizzell J, Tessner K, Gerig G, **Belger A.** Restricting Regions of Interest in Visual and Auditory Cortex to Gray Matter Tissue Increases BOLD Signal Detection. Presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco CA, April 13-16, 2002.
142. Inan S, Mitchell T, Perkins D, **Belger A.** Hemodynamic Correlates of Sensory Gating Deficits in Schizophrenia and its Progression, fMRI Study. Presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, April 13-16, 2002.
143. Mitchell T, Inan S, Perkins D, **Belger A.** Neural Correlates of Target and Novelty Processing Deficit in Schizophrenia. Presented at the Annual Meeting of the *Cognitive Neuroscience Society*, San Francisco, CA, April 13-16, 2002.
144. **Belger A.** ERP and FMRI Evidence of Impaired Error Correction in Schizophrenia: Reflections of Fronto-Striate Dysfunction? The Annual Meeting of the Society for Biological Psychiatry, New Orleans, LA, May 3-5, 2001.
145. **Belger A.** Spatial and Temporal Localization of Cognitive Deficits in Schizophrenia using fMRI and ERP Measures. Society for Biological Psychiatry Meeting in New Orleans, LA, May 3-5, 2001.



146. **Belger, A.** ERP and FMRI evidence of impaired error correction in schizophrenia: Reflections of Fronto-Striate Dysfunction? Invited Symposium presented at the Annual Meeting of the Society for Biological Psychiatry, New Orleans, LA, May 3-5, 2001.
147. **Belger A,** Maher S, Lacadie C, Krystal J. FMRI and ERP Correlates of Impaired Visual P300 to Target and Novel stimuli in schizophrenia: Effects of Attention. Abstract presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY, March 25-27, 2001.
148. **Belger A.** Role of Prefrontal Cortex in the Selection and Generation of Task Appropriate Response: Perspectives from Behavioral, Electrophysiological, Functional Imaging, and Neuropsychiatric Studies. 34th Annual Meeting of the Winter Brain Conference in Steamboat Springs, CO, January 20-27, 2001.
149. **Belger A,** Maher S, Krystal JH. FMRI and ERP Correlates of Impaired Visual P300 to Target and Novel Stimuli in Schizophrenia: Effects of Attention. Presented at the 30th Annual meeting for the Society of Neurosciences, New Orleans, LA, November 4-9, 2000.
150. **Belger A.** Working Memory: Constructs, Neural Circuits, Pharmacological Modulation. Invited Symposium speaker, presented at the Annual meeting of the Society for Biological Psychiatry, LA, November 4-9, 2000.
151. **Belger A.** Abnormal Engagement of Dorsal and Ventral Frontal Cortex in Schizophrenia During Executive Tasks. The Biannual Meeting of the International Congress on Schizophrenia Research, Santa Fe, NM, April 17-21, 1999.
152. **Belger A.** Behavioral Assessment of Frontal/Cingulate Attention Deficits in Schizophrenia. Presented at the Biannual Meeting of the International Congress on Schizophrenia Research, Colorado Springs, Colorado, April 12-16, 1999.
153. **Belger A,** Fermaglich L, D'Souza DC, Gore JC, Krystal JH. Abnormal Anterior Cingulate Activation During Cognitive Inhibition in Schizophrenia. Invited paper presented at Symposium at the Annual meeting of the Society for Neurosciences, Los Angeles, CA, November 7-12, 1998. Abstract p. 1176.
154. Krystal JH, **Belger A,** Kirino E, Madonick S, Gatenby CJ, McCarthy G, Gore JC. Modulation of Cingulate Activation to Infrequent Visual Targets by Ketamine: A Functional MRI Study. 28th Annual meeting of the Society for Neurosciences, Los Angeles, Ca, November 7-12, 1998. Abstract p.259.
155. D'Souza DC, **Belger A,** Abi-Saab W, Adams S, Gil R, Larvey K, Cassello K, Sernyak M, Krystal J. Dose-response of THC Effects in Schizophrenics and Healthy Controls. Abstract in Biological Psychiatry, Volume 43, Issue 8, Supplement 1, 15 April 1998, Pages S130-S131.
156. **Belger A,** Kirino E, Gore J, McCarthy G, Krystal JH. Assessment of Prefrontal Activation by Infrequent Visual Targets and Non-target Novel Stimuli in Schizophrenia: A Functional MRI Study. Presented at the 9th Biennial winter workshop on schizophrenia, in Davos, Switzerland, February 7-13, 1998. Abstract in Schizophrenia Research, Vol. 29, nos. 1,2.
157. **Belger A,** Kirino E, Madonick S, Gatenby CJ, McCarthy G, Gore JC, Krystal JH. Modulation of Frontal and Cingulate Activation to Infrequent Visual Targets by Ketamine: A Functional MRI Study. Abstract in the proceedings of the 37th annual meeting of the American College of Neuropsychopharmacology. 1998.
158. **Belger A,** Kirino E, Gore J, McCarthy G, Krystal JH. Assessment of prefrontal activation by infrequent visual targets and non-target novel stimuli in schizophrenia: A functional MRI study. Abstract in the proceedings of the 36th annual meeting of the American College of Neuropsychopharmacology, 1997, p. 190.



159. D'Souza C, Gil R, **Belger A**, Zimmerman L, Tracy L, Larvey K, Cassello K, Krystal JH. Glycine Ketamine Interactions in Healthy Humans. Abstract in the proceedings of the 36th annual meeting of the American College of Neuropsychopharmacology, 1997, p. 286.
160. D'Souza C, **Belger A**, Zimmerman L, Adams S, Gil R, Sernyak M, Krystal JH. Cannabinoid sensitivity in schizophrenia: Dose-response of tetrahydrocannabinol effects in schizophrenics and healthy controls. Abstract in the proceedings of the 36th Annual Meeting of the American College of Neuropsychopharmacology, 1997, p.286.
161. Kirino E, **Belger A**, Goldman-Rakic P, McCarthy G. A Comparison of Prefrontal Activation to Infrequent Visual Targets and Non-target Novel Stimuli: a Functional MRI Study. Presented at the 27th Annual meeting of the Society for Neurosciences, New Orleans, LA, October 25-30, 1997, abstract p. 493.
162. **Belger A**. Behavioral Assessment of Frontal/Cingulate Attention Deficits in Schizophrenia. Presented at the Biannual Meeting of the International Congress on Schizophrenia Research, Colorado Springs, Colorado, April 12-16, 1997.
163. **Belger A**, McNulty A, Krystal JH. Frontal/Cingulate Attention Deficits in Schizophrenia. Presented at the 25th Annual Meeting of the International Neuropsychological Society, Orlando, February 5-8, 1997.
164. **Belger A**, Taqqu Y, Krystal JH. Working Memory and Selective Attention in Schizophrenia. Presented at the 8th Annual Meeting of the American Neuropsychiatric Association (ANPA), February 2-4, 1997, Orlando.
165. **Belger A**, McCarthy G, Gore J, Goldman-Rakic P, Krystal J. FMRI Studies of Working Memory Networks: Parietal and Temporal Lobe Studies. Presented at the 1st International Conference on Mapping of the Human Brain, Paris, June 26-30, 1995.
166. **Belger A**, McCarthy G, Gore J, Goldman-Rakic P, Krystal J. Dissociation of Parietal and Temporal Networks during Spatial and Non-spatial Working Memory using FMRI. Abstract in the Proceedings of the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, March 26-28, 1995.
167. **Belger A**, McCarthy G., Gore J, Goldman-Rakic, P., Krystal, J. Spatial and Non-spatial Working Memory Networks Studied by Functional Magnetic Resonance Imaging. Abstract in the proceedings of the 34th Annual Meeting of the American College of Neuropsychopharmacology, 1995, p.223.
168. **Belger A**. Functional Magnetic Resonance Imaging Studies of Working Memory and Ketamine Effects on Cortical Circuitry. Co-Chair of study group entitled "Working Memory and its relevance to schizophrenia". Held at the American College of Neuropsychopharmacology Meeting, San Juan, Puerto Rico, December 12-16, 1994.
169. Allison T, McCarthy G, **Belger A**, Puce A, Bentin S. What is a Face? Electrophysiological Responsiveness of Human Extrastriate Visual Cortex to Human Faces, Face Component, and Animal Faces. 24th Annual meeting of the Society for Neurosciences, Miami Beach, Florida, Nov 13-18, 1994. Society for Neuroscience Abstracts, 20(1-2) p. 316.
170. **Belger A**, Blamire AM, McCarthy G, and Shulman RG. Functional MRI of frontal lobes during language tasks. Presented at the Inaugural Meeting of the Cognitive Neuroscience Society, March 27-29, 1994. San Francisco. Abstract in the Proceedings of the Cognitive Neuroscience Society, p. 63.
171. **Belger A**, Banich MT. Task demands limit interhemispheric facilitation. Presented at the 22nd Annual Meeting on the International Neuropsychological Society, Cincinnati, February 3-5, 1994.



Abstract in Journal of Clinical and Experimental Neuropsychology.

172. **Belger A**, Banich MT. Interhemispheric interaction affected by asymmetries of hemispheric activation (AHA). Presented at the 22nd Annual Meeting on the International Neuropsychological Society, Cincinnati, February 2-5, 1994. Abstract in the Proceedings of the International Neuropsychological Society.
173. Blamire AM, **Belger A**, McCarthy G, Shulman RG. A Study of Language Production by Functional MRI. Presented at the Inaugural Meeting of the Nottingham Symposium on Magnetic Resonance in Medicine, April, Nottingham. Abstract in the Proceedings of the Nottingham Symposium on Magnetic Resonance in Medicine. 1994.
174. **Belger A**, Banich MT. Interhemispheric interaction affected by computational complexity. Presented at the 20th Annual Meeting on the International Neuropsychological Society, San Diego, February 5-8, 1992. Abstract in Journal of Clinical and Experimental Neuropsychology, 14:48.
175. **Belger A**, and Banich MT. Task Difficulty and Interhemispheric Interaction. Paper presented at the 63rd Annual Meeting of the Midwestern Psychological Association, Chicago, May 2-4, 1991. Abstract in Proceedings of the Midwestern Psychological Association 63rd Annual Meeting, p. 48.
176. Stokes AF, and **Belger A**. Anxiety and Cognitive Strategies in Experts and Novice Aviators. Proceedings of the 62nd Annual Scientific Meeting of the Aerospace medical Association, Cincinnati, Ohio. 1991.
177. **Belger A**, Stokes AF, Taylor H, Banich MT. Effects of Acute Aspartame Ingestion upon the Cognitive Performance of Pilots. Annual Scientific Meeting of the Aerospace Medical Association, Washington, DC, May 7- 11, 1989. Aviation Space and Environmental Medicine, 60(5): 490.

INVITED PRESENTATIONS, PANELS, SYMPOSIA, AND WORKSHOPS AT NATIONAL AND INTERNATIONAL MEETINGS

1. **Belger, A**. Intellectual and Developmental Disabilities Research Centers (IDDRC) Study section. November 19-20, 2020.
2. **Belger A**. Translational Approaches to Stress Mechanisms and Network Development, Balance, Disruption and Risk for Psychopathology. American College of Neuropsychopharmacology 58th Annual Meeting, December 8-11, 2019.
3. **Belger A**. Transforming Children's Lives Through Innovation in Research, Practice, and Policy. Synergos Global Philanthropists Circle. Webinar. February 28, 2019.
4. **Belger A**. SDGs and Early Child Development Stream Lead. The New York Academy of Sciences Summit on Science Enablement for the Sustainable Development Goals, New York NY, October 16-17, 2017.
5. **Belger A**. Toxic Stress and the Developing Brain. The New York Academy of Sciences Summit on Science Enablement for the Sustainable Development Goals, New York NY, November 29, 2016.
6. **Belger A**. Neuroinflammation Mechanisms and Neurodevelopment: Novel Translational Models of Neuropsychiatric Disorders. American College of Neuropsychopharmacology 55th Annual Meeting, December 6-10, 2015.
7. **Belger A** (Discussant). Potential Biomarkers of Social Cognition in Autism and Schizophrenia. Oral discussion American Academy of Child and Adolescent Psychiatry 62nd Annual Meeting, October 29-31, 2015.



8. **Belger A**, Donkers F. Optical Brain Imaging Sensor Team Meeting, Drexel University, Philadelphia Pa, Mar. 5, 2010.
9. **Belger A**. Sex Differences in the Brain. Functional Cortical Alterations in Children and Adolescents at Genetic Risk for Schizophrenia: Gender effects? U.S. Kavli Frontiers of Science Symposium, US National Academy of Sciences, Irvine CA, Nov. 14, 2009.
10. **Belger A**. The Neuronal Circuitry of Autism. Presented at the Staging Neuropsychiatric Disorders: Implications for Etiopathogenesis and Treatment International Meeting organized by Fundación Cerebro y Mente and Psychiatry Department, Hospital Universitario, Mojácar (Almería) Spain, Oct. 16, 2009.
11. **Belger A**. Multimodal Neuroimaging Studies of Teens at Risk for Schizophrenia. Central Regional Hospital, Dorothea Dix Hospital, Raleigh NC, February 12, 2009.
12. **Belger A**. Multimodal Neuroimaging Studies of Teens at Risk for Schizophrenia: New Pre-emptive Directions in Research. NARSAD, Healthy Minds across America, UNC Chapel Hill, NC, September 14, 2008.
13. **Belger A** Neuroimaging in Neuropsychiatric Disorder: From Brain to Mind. Translational Lecture Series, UNC Chapel Hill, NC, July 3, 2008.
14. **Belger A**. Neuroimaging and Electrophysiological Studies of Neurodevelopmental Disorders: Schizophrenia and Autism visited. Grand Rounds, New York State Psychiatric Institute, June 27, 2008.
15. **Belger A**. Neuroimaging and Electrophysiology of the Schizophrenia Prodrome and Adolescents at Genetic Risk. New York State Psychiatric Institute, June 26, 2008.
16. **Belger A**. Neuroimaging of Executive and Affective Processing Circuits in Autism. STAART Annual Meeting, Washington DC, April 24, 2008.
17. **Belger A**. Adolescent Brain Development in Children at Risk for Schizophrenia. 15th Annual STEP Symposium. What's New in Schizophrenia: Reports from the Front Lines of Research, UNC Chapel Hill NC, April 19, 2008.
18. **Belger A**, Blocher J, Gu H, Perkins DO, Gilmore JH & Gerig G. Altered Brain Growth and Structure in Children and Adolescents at Genetic Risk for Schizophrenia. Poster presented at the Radiology-Biomedical Research Imaging Center (BRIC) Symposium, UNC Chapel Hill NC, May 10, 2007.
19. **Belger A**. Neuroimaging and Electrophysiology of the Schizophrenia Prodrome. Zubin Memorial Fund Lecture Western Psychiatric Institute and Clinic, Pittsburgh PA, May 4, 2007.
20. **Belger A**. Neuroimaging and Electrophysiological Studies of Executive and Affective Processing in Schizophrenia, its Prodrome and Adolescents at Genetic Risk. Basic Science Training Program Lecture, Yale University, New Haven CT, April 30, 2007.
21. **Belger A**. Altered Brain Growth and Structure in Children and Adolescents at Genetic Risk for Schizophrenia, The International Congress on Schizophrenia Research, Colorado Springs CO. 2007.
22. **Belger A**. What Makes a "Good" Cognitive Task: Cognitive Task Choices in Schizophrenia Research. International Congress on Schizophrenia Research, Colorado Springs, CO. 2007.
23. **Belger A**. Functional Imaging Of Neural Circuits Underlying Executive Cognitive Deficits In Autism. CPEA-STAART Meeting, Bethesda MD, May 17-20, 2004.
24. **Belger A**. Role of Prefrontal Cortex in the Selection and Generation of Task Appropriate



- Response in Schizophrenia. 43rd Annual Meeting of the Society for Psychophysiological Research, Chicago IL, October 29-November 2, 2003.
25. **Belger A** (2003) Imaging the Brain and the Mind in Schizophrenia. Annual Schizophrenia Treatment and Evaluation Program Meeting, UNC Chapel Hill NC, May 10, 2003.
 26. **Belger A.** Autism: New views from Brain Imaging. Annual Autism STAART Center Meeting, UNC Chapel Hill NC, April 9, 2003.
 27. **Belger A.** Functional Neuroimaging of Cognitive Deficits in Schizophrenia. Presented at the Neuroimaging Science Training Program (NISTP) Yale University, New Haven CT, January 10, 2003.
 28. **Belger A.** Role of Prefrontal Cortex in the selection and generation of task appropriate response: Perspectives from behavioral, electrophysiological, functional imaging, and neuropsychiatric studies. 34th Annual Meeting of the Winter Brain Conference in Steamboat Springs CO, January 20-27, 2001.
 29. **Belger A, Maher S, and Krystal JH.** fMRI and ERP Correlates of Impaired Visual P300 to Target and Novel Stimuli in Schizophrenia: Effects of Attention. 30th Annual Meeting for the Society of Neurosciences, New Orleans LA, November 4-9, 2000.
 30. **Belger A.** Abnormal Engagement of Dorsal and Ventral Frontal Cortex in Schizophrenia during Executive Tasks. Biannual Meeting of the International Congress on Schizophrenia Research, Santa Fe, NM, April 17-21, 1999.
 31. **Belger A.** Behavioral Assessment of Frontal/Cingulate Attention Deficits in Schizophrenia. Biannual Meeting of the International Congress on Schizophrenia Research, Colorado Springs, Colorado, April 12-16, 1999.
 32. **Belger A, Fermaglich L, D'Souza DC, Gore JC, & Krystal JH.** Abnormal Anterior Cingulate Activation During Cognitive Inhibition in Schizophrenia. Annual meeting of the Society for Neurosciences, Los Angeles, CA, November 7-12 1998, abstract p. 1176.
 33. **Belger A** Behavioral and fMRI Studies of Attention and Working Memory in Healthy and Schizophrenic Subjects. NIMH Neuroscience Center at St. Elizabeth's, Clinical Brain Disorders Branch, May 4, 1996.
 34. **Belger A.** Working Memory Networks Studied by Functional Magnetic Resonance Imaging. Grand Rounds, Yale University Department of Psychiatry, April 7, 1996.
 35. **Belger A.** Cortical Networks of Working Memory Studied by Functional Magnetic Resonance Imaging. Long Island Jewish Hospital, May 1, 1995.

INVITED PRESENTATIONS, PANELS, SYMPOSIA, AND WORKSHOPS AT LOCAL MEETINGS

1. **Belger A.** FPG Strategic Plan. Research Deans and Directors Meeting. UNC-CH, Chapel Hill, NC. January 22, 2019.
2. **Belger A.** FPG/Southeast Raleigh Promise Partnership (SRP). Raleigh, NC. April 26, 2019.
3. **Belger A.** Stress, Brain and Cognition in High-Risk Adolescents. Great Minds Think for Kids: A Seminar & Brainstorming Series. Children's Health & Discovery Initiative, Duke University. Durham, NC. April 22, 2019.
4. **Belger A.** Developmental Neurobiology of Emotion and Cognition, and the Impact of Child Maltreatment. Child Maltreatment Research & Practice Network. UNC-CH, Chapel Hill, NC. April 8, 2019.



5. **Belger A.** FPG Strategic Plan. Research Deans and Directors Meeting. UNC-CH, Chapel Hill, NC. April 3, 2019.
6. **Belger A.** Multimodal Imaging of Stress and Cognition in High Risk Adolescents. Carolina Consortium on Human Development T32 Seminar Series. UNC-Chapel Hill. Chapel Hill, NC. February 11, 2019.
7. **Belger A.** FPG Strategic Plan. Research Deans and Directors Meeting. UNC-CH, Chapel Hill, NC. January 22, 2019.
8. **Belger A.** FPG Executive Leadership Board Meeting. The Carolina Inn. Chapel Hill, NC. October 29-30, 2019.
9. **Belger A.** FPG Fall Annual Meeting. NC Botanical Gardens. Chapel Hill, NC. September 13, 2019.
10. **Belger A.** FPG Annual Meeting Presentation. FPG Annual Meeting. The Friday Center. Chapel Hill, NC. April 24, 2019.
11. **Belger A.** April Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. April 10, 2019.
12. **Belger A.** March Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. March 13, 2019.
13. **Belger A.** Strategic Task Force Retreat. Frank Porter Graham Child Development Institute. Chapel Hill, NC. January 24, 2019.
14. **Belger A.** January Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. January 9, 2019.
15. **Belger A.** December Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. December 12, 2018.
16. **Belger A.** November Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. November 14, 2018.
17. **Belger A.** FPG Executive Leadership Board Meeting. The Carolina Inn. Chapel Hill, NC. November 6-7, 2018.
18. **Belger A.** October Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. October 10, 2018.
19. **Belger A.** FPG Strategic Plan Advisory Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. September 27, 2018.
20. **Belger A.** FPG Strategic Plan Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. September 27, 2018.
21. **Belger A.** FPG Strategic Plan Open Forum with SHRA Employees. Frank Porter Graham Child Development Institute. Chapel Hill, NC. September 24, 2018.
22. **Belger A.** September Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. September 12, 2018.
23. **Belger A.** Strategic Plan Retreat. Barn at Valhalla. Chapel Hill, NC. August 30, 2018.
24. **Belger A.** FPG Strategic Plan Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. August 23, 2018.
25. **Belger A.** August Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. August 14, 2018.



26. **Belger A.** August Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. August 8, 2018.
27. **Belger A.** FPG Strategic Plan Advisory Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. July 19, 2018.
28. **Belger A.** July Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. July 13, 2018.
29. **Belger A.** June Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. June 13, 2018.
30. **Belger A.** May Community Meeting. FPG Monthly Community Meeting. Frank Porter Graham Child Development Institute. Chapel Hill, NC. May 9, 2018.
31. **Belger A.** FPG Executive Leadership Board Meeting. The Carolina Inn. Chapel Hill, NC. May 2, 2018.

Technical Reports

1. Stokes AF, **Belger A**, and Zhang K. Investigation of the factors comprising a model of pilot decision making. Part 2: Anxiety and cognitive strategies in expert and novice aviators. Aviation Research Laboratory Final Technical Report, ARL-90-8/SCEEE-90-2, September, 1990.

TEACHING RECORD

LECTURES

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| 2021 | Established Carolina Seminar Series: “ Art and The Brain: Neurologic Disorders in Famous Artists -Interdisciplinary Conversations |
| 2020 | Established Carolina Seminar Series: “ Dual Impact of COVID-19 and Systemic Racism and Inequity on Children’s Developmental Trajectories in the Early Years: Interdisciplinary Conversations and Development of a Research-Policy Agenda” |
| 2017 | Established Carolina Seminar Series : “Brain and Humanity Collaborative Catalysts Seminar: An Exploration of Key Findings, Literature, Methods, and Approaches to Biopsychosocial Factors That Impact Brain Maturation and Adolescent Mental Health” |
| 2017 | UNC Allied Health Sciences Department- (February 8) Autism Research Interest Group Lecture: <i>Multimodal Imaging Approaches to understand Neurodevelopmental Disabilities.</i> |
| 2017 | UNC NAMI DAY Campus Presentation (March 2 nd)– <i>Rethinking Psychiatric Illness 2017</i> |
| 2017 | UNC ICAM postdoc Seminar (June 8 th)– <i>Mapping Brain Circuits altered by stress and Psychosis</i> |
| 2017 | Orange County NAMI Meeting (June 12 th): <i>Neurobiology of Adolescent Mental Health</i> |
| 2017 | Psychology Lysle Lab presentation (June 14 th): <i>Cognitive Control and Affective Processing Dysregulation in PTSD</i> |
| 2016 | Neuroimaging and Neuropsychiatry Disorders (Sept. 7), UNC Child Psychiatry Fellows, UNC Chapel Hill. |
| 2016 | Human Neuroanatomy (Sept. 14), UNC Child Psychiatry Fellows, UNC Chapel Hill. |



- 2016 Cortico-Lumbic Circuitry in Neuropsychiatry (Nov. 16), UNC Child Psychiatry Fellows, UNC Chapel Hill.
- 2016 Cortico Hyppocampal Circuitry in Neuropsychiatry (Dec. 21), UNC Child Psychiatry Fellows, UNC Chapel Hill.
- 2016 Converging Evidence of Aberrant Neural Synchrony in Schizophrenia (Sept. 1), International Organization of Psychophysiology (IOP), Havana, Cuba.
- 2016 The Functional Dynamics of Brain Domains in Schizophrenia (June 29), Organization for Human Brain Mapping (OHBM), Geneva, Switzerland.
- 2011 Cognitive Neuroscience of Schizophrenia: Functional Neuroimaging and Electrophysiological Studies Mapping Neural Circuits Associated with the Pathophysiology of Schizophrenia (February 24) PGY-4 Psychiatry Lecture Series Duke University Durham.
- 2010 Imaging the Brain and Mind: Understanding Autism and Schizophrenia (Sept. 25) UNC Science Expo, Morehead Planetarium and Science Center, UNC Chapel Hill.
- 2010 Cognitive Neuroscience of Schizophrenia: Functional Neuroimaging and Electrophysiological Studies Mapping Neural Circuits Associated with the Pathophysiology of Schizophrenia (April 22) PGY-4 Psychiatry Lecture Series Duke University Durham.
- 2010 Social Cognitive Neuroscience and Exploration of Deficits in this Domain in Neurodevelopmental and Neuropsychiatric Disorders (Feb. 12) Translational Seminar in Cognitive and Clinical Neuroscience, UNC Chapel Hill.
- 2010 Cognitive Neuroscience of Perception and Attention (Feb. 5) Translational Seminar in Cognitive and Clinical Neuroscience, UNC Chapel Hill.
- 2010 Brain Development/Maturation and Neurodevelopmental Disorders (Jan. 29) Translational Seminar in Cognitive and Clinical Neuroscience, UNC Chapel Hill.
- 2010 Introduction to Human Functional Anatomy (Jan. 15) Translational Seminar in Cognitive and Clinical Neuroscience, UNC Chapel Hill.
- 2009 Cognitive Neuroscience and Mapping Cortical Circuits Implicated. The Neurobiology of Schizophrenia, PGY-2 Lecture UNC Chapel Hill.
- 2009 Neuroimaging and Psychiatry (Feb. 18) PGY III Neuroscience/Neuropharmacology Block UNC Chapel Hill.
- 2009 Multimodal Neuroimaging Studies of Teens at Risk for Schizophrenia (Feb. 12) Central Regional Hospital Clinical Research Series Raleigh NC.
- 2009 Brain Development/Maturation and Neurodevelopmental Disorder: Autism (Jan. 30) Translational Seminar in Cognitive and Clinical Neuroscience, UNC Chapel Hill.
- 2009 Methods of Cognitive Neuroscience (Jan. 23) Translational Seminar in Cognitive and Clinical Neuroscience, UNC Chapel Hill.
- 2009 Pediatric Medicine Endocrinology (Jan. 22) Pediatric Grand Rounds, UNC Chapel Hill.
- 2009 Introduction to Human Functional Anatomy (Jan. 16) Translational Seminar in Cognitive and Clinical Neuroscience UNC Chapel Hill.
- 2008 Challenges in the Investigation of the Neurobiology of Mental Illness (Sept. 24) Psychiatry Intern Lecture UNC Chapel Hill.



- 2008 Cognitive Electrophysiology in Neuropsychiatric Disorders (Sept. 4) X International Conference on Cognitive Neuroscience Bodrum Turkey.
- 2008 Neuroimaging in Neuropsychiatric Disorders: From Brain to Mind (July 3) Translational Lecture Series, UNC Chapel Hill.
- 2008 Neuroimaging and Electrophysiology of the Schizophrenia Prodrome and Adolescents of Genetic Risk. (June 26) Lieber Center for Schizophrenia Research and Treatment, Columbia University, New York NY.
- 2008 Neuroimaging and Electrophysiological Studies of Neurodevelopmental Disorders: Schizophrenia and Autism Visited (June 27) Grand Rounds Columbia University, New York NY.
- 2008 The Beautiful Mind: Breakthroughs and Breakdowns of the Brain (June 5) Morehead Summer Science Lecture UNC Morehead Planetarium Chapel Hill.
- 2008 Imaging and Neuropsychology of Turner Syndrome and Schizophrenia (May 14) Neurodevelopmental Disorders Research Center (NDRC) UNC Chapel Hill.
- 2008 Neuroimaging and Electrophysiological Studies of Neurodevelopmental Disorders: Schizophrenia and Autism Visited (May 12) Neurobiology of Mental Illness (NOMI), UNC Chapel Hill.
- 2008 Functional Neuropsychiatric Imaging (Mar 6) Psychiatry Grand Rounds New Hanover Regional Medical Center New Hanover NC.
- 2007 Functional Neuropsychiatric Imaging (Oct. 25) MAHEC Video Conference Broadcast from UNC to MSJ/Owen Heart Center – Glenn Theatre Asheville NC.
- 2007 Functional Imaging in Neuropsychiatric Disorders PGYIII Neuropsychiatry Seminar UNC Chapel Hill.
- 2007 fMRI of Visual systems. Cellular and Molecular Neurobiology (CNMB), UNC Neurobiology Curriculum.
- 2007 fMRI of Auditory Systems. Cellular and Molecular Neurobiology (CNMB) UNC Neurobiology Curriculum.
- 2007 Cognitive Neuroscience of Schizophrenia PGYIV Psychiatry Residents, Neurobiology Course Duke University Durham.
- 2006 Functional Neuroanatomy. PGYIII Neuropsychiatry Seminar UNC Chapel Hill.
- 2006 NDRC Postdoctoral Seminar: Functional Neuroimaging I: Fundamentals and Applications to the Study of Cognitive Processes UNC Chapel Hill.
- 2006 fMRI of Visual systems. Cellular and molecular neurobiology (CNMB), UNC Neurobiology Curriculum.
- 2006 fMRI of Auditory Systems. Cellular and Molecular Neurobiology (CNMB), UNC Neurobiology Curriculum.
- 2006 Neuroimaging Research in Neuropsychiatric Disorders. PGYII Neuropsychiatry Seminar UNC Chapel Hill.
- 2006 Prefrontal Circuitry in Neuropsychiatric Disorders, PGYII Neuropsychiatry Seminar UNC Chapel Hill.
- 2005 fMRI of Visual Systems. Cellular and Molecular Neurobiology (CNMB) UNC



- Neurobiology Curriculum.
- 2005 FMRI of Auditory Systems. Cellular and Molecular Neurobiology (CNMB), UNC Neurobiology Curriculum.
- 2005 NDRC Postdoctoral Seminar: Developmental Functional Neuroimaging I: Fundamentals and Applications to the Study of Cognitive Processes, UNC Chapel Hill.
- 2005 Prefrontal Circuitry in Neuropsychiatric Disorders, Duke Neuropsychiatry Seminar Duke University Medical School.
- 2004 Prefrontal Circuitry in Neuropsychiatric Disorders, Duke Neuropsychiatry Seminar Duke University Medical School.
- 2003 Functional Neuroimaging I: Fundamentals and Applications to the Study of Cognitive Processes, NDRC Postdoctoral Seminar UNC Chapel Hill.
- 2003 Prefrontal Circuitry in Neuropsychiatric Disorders, Duke Neuropsychiatry Seminar Duke University Medical School.
- 2003 Lecture on Functional Neuroimaging I: Fundamentals and Applications to the Study of Cognitive Processes, UNC NDRC Postdoctoral Fellow Seminar UNC Chapel Hill.
- 2002 Lecture on Fronto-Striate Circuits in the Selection, Initiation and Switching of Task-appropriate Responses. Center for Cognitive Neuroscience Annual Retreat Duke University.
- 2002 Lecture on Multimodal Mapping of the Neural Basis of Executive Function Deficits in Schizophrenia using Functional Magnetic Resonance Imaging and Event-Related Potentials, Cortex Journal Club Duke University.
- 2001 Lecture on Emotion and the Brain, Cognitive Neuroscience Seminar Duke University.
- 2001 Lecture on Cognitive Neuroscience of Sensory Processing, PGY-II Neuropsychiatry Seminar Department of Psychiatry UNC School of Medicine.
- 1998 Lecture on the Psychology of Perception and Cognition, PGY-II Scientific Foundations Schools of Thought and Clinical Psychiatry Course Yale Medical School.
- 1998 Lecture on the Neurobehavioral Dimensions of Learning and Memory, PGY-II Scientific Foundations, Schools of Thought and Clinical Psychiatry Course Yale Medical School.
- 1993 Lecture on Interhemispheric Information Processing (Nov. 30) Psychology Department Cognitive Science Seminar Yale University.

COURSES/SEMINARS TO GRADUATE/UNDERGRADUATE STUDENTS

- Spring 2024 NBIO 727: Translational Seminar in Cognitive and Clinical Neuroscience, Neurobiology Curriculum, Psychology Department, University of North Carolina.
- Spring 2023 NBIO 727: Translational Seminar in Cognitive and Clinical Neuroscience, Neurobiology Curriculum, Psychology Department, University of North Carolina.
- Spring 2022 NBIO 727: Translational Seminar in Cognitive and Clinical Neuroscience, Neurobiology Curriculum, Psychology Department, University of North Carolina.
- Spring 2019 NBIO 727: Translational Seminar in Cognitive and Clinical Neuroscience, Neurobiology Curriculum, Psychology Department, University of North Carolina.
- Spring 2017 NBIO 727: Translational Seminar in Cognitive and Clinical Neuroscience,



	Neurobiology Curriculum, Psychology Department, University of North Carolina.
Spring 2015	NBIO 727: Translational Seminar in Cognitive and Clinical Neuroscience, Neurobiology Curriculum, Psychology Department, University of North Carolina.
Spring 2013	NBIO 727: Translational Seminar in Cognitive and Clinical Neuroscience, Neurobiology Curriculum, Psychology Department, University of North Carolina.
Spring 2011	NBIO 727: Translational Seminar in Cognitive and Clinical Neuroscience, Neurobiology Curriculum, Psychology Department, University of North Carolina.
Spring 2010	NBIO 727: Translational Seminar in Cognitive and Clinical Neuroscience, Neurobiology Curriculum, Psychology Department, University of North Carolina.
Summer 2009	PSY48E.01 Cognitive and Clinical Neuroscience, Bogazici University, Psychology Department, Istanbul, Turkey.
Spring 2009	NBIO 727: Translational Seminar in Cognitive and Clinical Neuroscience, Neurobiology Curriculum, Psychology Department, University of North Carolina.
Spring 2001	Psych 100: Thinking and Cognition, section 2 - Cognitive Neuroscience, Department of Psychology, University of North Carolina.
Fall 1998	Psych 215: Senior Seminar in Cognitive Neuroscience. Department of Psychology, Yale University.

CLINICAL COURSES TO RESIDENTS, FELLOWS AND/OR POSTDOCTORAL TRAINEES

Fall 2021	Brain Development and Psychopathology – PGY II
Spring 2020	Brain Development and Psychopathology – PGY II
Spring 2019	Brain Development and Psychopathology - PGY II
Spring 2017	Looking Inside the Disordered Brain – Corticostriatal circuitry Case discussion – Corticostriatal circuitry – Nathan Copeland
Spring 2017	Looking Inside the Disordered Brain – Corticohippocampal circuitry Case discussion – Corticohippocampal circuitry – Gabe Morosoff
Fall 2016	Brain dissection
Fall 2016	Neuroimaging techniques and neurodevelopment
Fall 2016	Looking Inside the Disordered Brain – Corticolimbic circuitry Case discussion – Corticolimbic circuitry – Wes Geddings
Spring 2001-2009	IBM 100: Imaging the Brain and Mind, Department of Psychiatry, University of North Carolina School of Medicine.
Spring 2002	Clinical Neuroscience Journal Club, Department of Psychiatry, University of North Carolina School of Medicine.

FUNDED COURSE

2016-2019	Carolina Seminars – Brain and Humanity Collaborative
2020-2023	Carolina Seminars - Dual Impact of COVID-19 and Systematic Racism and Inequity on Children's Developmental Trajectories in the Early Years



2022-2024 Carolina Seminars - Art and the Brain

STUDENT MENTORING/ADVISING

Graduate/Resident Supervision, Committees

2018-present	Graduate Student Research Mentor, Curriculum in Neurobiology/MD/PHD program University of North Carolina, Chapel Hill: Rachel Corr, PhD (2022) Sarah Glier Ph.D. (2022) (MD/PHD)
2011–2017	Graduate Student Research Mentor, Curriculum in Neurobiology University of North Carolina, Chapel Hill: Elizabeth Andersen, BS (Ph.D. 2017)
2011-2016	Graduate Student Research Mentor, Curriculum in Neurobiology University of North Carolina, Chapel Hill: Mariko Weber, BS (Ph.D. 2015)
2010-present	Graduate Student Research Mentor, Curriculum in Neurobiology University of North Carolina, Chapel Hill: Joseph Shaffer Jr., BS (Ph.D. 2016)
2009-2012	Graduate Student Research Mentor, BBSP Curriculum University of North Carolina, Chapel Hill: Katie Cleary B.S., B.A. (Ph.D 2012)
2005-2011	Graduate Student Research Mentor, Curriculum in Neurobiology University of North Carolina, Chapel Hill: Kimberly Carpenter, B.S., B.A.
2009	Resident Research Mentor, Psychiatry Department University of North Carolina, Chapel Hill: Stephanie Tucker, M.D.
2007	Graduate Student Research Mentor, Curriculum in Neurobiology University of North Carolina, Chapel Hill: Lee Langer, B.S., B.A.
2002-2007	Graduate Student Research Mentor, Department of Psychology, University of North Carolina, Chapel Hill: Sarah Hart, B.A.
2001-2005	Graduate Student Research Mentor, Department of Psychology, Duke University: Elliot Ludvig, M.S.
1998	Graduate Student Doctoral Thesis Advisor, Department of Psychology, Yale University: Isabel Gauthier, 1999
1997	Resident Recruitment Committee, Department of Psychiatry, Yale University School of Medicine.

Undergraduate Supervision

2024-2025	Undergraduate Independent Research Supervisor: Aidan Blumsack (Gil Intern), University of North Carolina, Department
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	Psychology Shreeya Yargaladdan (Psych 395), University of North Carolina, Department Psychology Emma Chow (Senior Honors), University of North Carolina, Department Psychology Soliha Norbekova (Senior Honors), University of North Carolina, Department Psychology Anjali Shandrasekhar (Senior Honors), University of North Carolina, Department Psychology Soliha Norbekova (Senior Honors), University of North Carolina, Department Psychology
2022-2024	Undergraduate Independent Research Supervisor: Xuoyu Shi (Gil Intern), University of North Carolina, Department Psychology Abigail Shuman, University of North Carolina, Department Psychology Daniel Kutuzov, University of North Carolina, Department Psychology Eliza List (URES 395; Psych 395), University of North Carolina, Department Psychology Camila Vallebona (URES 395), University of North Carolina, Department Psychology Rohan Kumar (Psych 395), University of North Carolina, Department Psychology
2016-2017	Undergraduate Independent Research Supervisor: Carina Guerra, University of North Carolina, Department of Psychology Lindsey Kuohn, Duke University
2016-2017	Undergraduate Independent Research Supervisor: Colleen Watson – University of North Carolina, Department of Psychology
2015-2016	Undergraduate Independent Research Supervisor: Kelly Anne Duffy, University of North Carolina, Department of Psychology Evan Melton, University of North Carolina, GIL Fellow Tracey Bailey, University of North Carolina, GIL Fellow Felix Murithi, University of North Carolina, GIL Fellow
2013–2014	Undergraduate Independent Research Supervisor: Kathy Ally Odom, University of North Carolina, Department of Psychology Danielle Rogers, University of North Carolina, Department of Psychology Erin King, University of North Carolina, Department of Psychology
2008-2009	Undergraduate Independent Research Supervisor: Kathleen Monforton, University of North Carolina, Department of Psychology
2006-2007	Undergraduate Independent Research Supervisor: Ian Allen, University of North Carolina, Department of Psychology



	Michael Casp, University of North Carolina, Department of Psychology
	Tara Smith, University of North Carolina, Department of Psychology
2005-2006	Undergraduate Independent Research Supervisor: Amy Lamb, University of North Carolina, Department of Biology
2004-2005	Undergraduate Independent Research Supervisor: Susan Hardy, University of North Carolina, Department of Psychology Stephanie Aldebot, University of North Carolina, Department of Psychology
2002-2004	Undergraduate Independent Research Supervisor: Jane Laube, University of North Carolina, Department of Psychology
2001-2003	Undergraduate Independent Research Supervisor: Jessica Reitz, B.A. Duke University Department of Psychology
1994-1999	Undergraduate Student Thesis Advisor, Department of Psychology, Yale University: Sasha Karanowich, B.A., 2000 Darby Saxbe, B.A, 1999 Carolyn Bellion, B.A., 1999 Elizabeth Wheeler, B.A, 1995 Yael Taqqu, B.A, 1995 Anne-Marie McNulty, B.A., 1995

OTHER SUPERVISION

Research Supervision (selected)

Research Assistant	Years	Current Institution
Earl McBride	2024-present	University of North Carolina, Chapel Hill
Camila Vallebona	2023-present	University of North Carolina, Chapel Hill
Idil Baran	2023-present	University of North Carolina, Chapel Hill
Daniel Kutuzov	2022-present	University of North Carolina, Chapel Hill
Anna Evans	2007-2014	University of North Carolina, Chapel Hill
Carolyn Bellion, M.A.	2005-2014	University of North Carolina, Chapel Hill
Mary Agnes MacMahon	2009-2011	University of Colorado, Boulder Co
Shane Schwichert	2009-2011	University of Colorado, Boulder
Kathleen Monforton	2008-2011	University of North Carolina, Chapel Hill
Erin Douglas, M.S.	2006-2010	McGill University, Montreal
Nathaniel Lucena	2007-2009	Washington University, St. Louis
Nicholas Musisca, M.S.	2006-2007	Wake Forest University, NC
Garrett Rosania	2003-2006	Duke University BIAC, Durham
Jeremy Frye, B.S.	2001-2004	University of North Carolina, Chapel Hill
Armel Berceliot	2002-2003	University of North Carolina, Chapel Hill
Kevin Tessner, B.S.	2001-2003	Emory University
Steven Maher, M.A.	1998-2000	Boston University



<u>Research Assistant</u>	<u>Years</u>	<u>Current Institution</u>
Lucien Vita, M.S.	1997-1999	Parsons College
Lewis Fermaglich, M.D.	1997-1999	North Chicago, VA Medical Center

Post-doctoral Fellowship Advisees (selected)

<u>Postdoctoral Fellow</u>	<u>Years</u>	<u>Current Institution</u>
David Garnica	2024-present	University of North Carolina, Chapel Hill
Andrea Baldelli	2018-2021	University of North Carolina, Chapel Hill
Candace Killian-Farrell, Ph.D.	2016-2018	University of North Carolina, Chapel Hill
Alana Campbell, Ph.D.	2013-2016	University of North Carolina, Chapel Hill
Sarah Schipul, Ph.D.	2012-2014	University of North Carolina, Chapel Hill
Crystal Schiller, Ph.D.	2011-2013	University of North Carolina, Chapel Hill
Gunes H. Yucel, Ph.D.	2002-2013	Adjunct, University of North Carolina, Chapel Hill
Sarah Hart, Ph.D.	2007-2012	Duke Pediatric Medical Genetics
Franc Donkers, Ph.D.	2006-2011	Tilburg School of Social and Behavioral Sciences, Tilburg, Netherlands
Carissa Cascio, Ph.D.	2006-2007	Vanderbilt University, Nashville, TN
James Carter, Ph.D.	2005-2006	University of Melbourne, Australia
Gabriel Dichter, Ph.D.	2004-2006	University of North Carolina, Chapel Hill
Odin van der Stelt, PhD	2001-2006	Tilburg University, Holland
Rajendra Morey, M.D.	2002-2005	Duke University and the Durham VA MC
Keith Shafritz, Ph.D.	2003-2004	Hofstra University, New Jersey
Paul Kartheiser, M.D.	2002-2004	University of North Carolina, Chapel Hill and Dorothea Dix Hospital
Seniha Inan, M.D.	2000-2004	SUNY Downstate Medical Center, Department of Neurology
Teresa Mitchell, Ph.D.	2001-2003	Shriver Center, U. Mass.

Faculty Mentor (K-Award indicated by *K)

<u>Faculty</u>	<u>Years</u>	<u>Current Institution</u>
Cope Feurer , PhD(*K)	2023-present	University of North Carolina, Chapel Hill
Joshua Bizzell, BS	2001-present	University of North Carolina, Chapel Hill
Sandy Hong, Ph.D.	2019-2021	University of North Carolina, Chapel Hill
Laura Kuhn, Ph.D.	2019-2021	University of North Carolina, Chapel Hill
Crystal Schiller, Ph.D.	2011-2018	University of North Carolina, Chapel Hill
Alana Campbell, Ph.D.	2015-2021	University of North Carolina, Chapel Hill
Kelly Giovanello, Ph.D. (*K)	2006-2010	University of North Carolina, Chapel Hill
Rajendra Morey, M.D. (*K)	2004-2009	Duke University, Durham
Karen Grewen, Ph.D. (*K)	2004-2009	University of North Carolina, Chapel Hill
Xuemei Huang, M.D. PhD. (*K)	2002-2008	Penn State, Pennsylvania



Awards Received by Mentored Fellows/Students

<u>Fellow- Student</u>	<u>Years</u>	<u>Award - Honor</u>
Elizabeth Andersen	2016	Dissertation Completion Fellowship Award
Elizabeth Andersen	2012	Howard Hughes Medical Institute, Translational Medicine Program, University of North Carolina School of Medicine
Mariko Weber	2011	Howard Hughes Medical Institute, Translational Medicine Program, University of North Carolina School of Medicine
Joseph Shaffer	2010	Howard Hughes Medical Institute, Translational Medicine Program, University of North Carolina School of Medicine
Katie Cleary	2009	Howard Hughes Medical Institute, Translational Medicine Program, University of North Carolina School of Medicine
Kimberly Carpenter	2009	NC TraCs Institute, University of North Carolina at Chapel Hill
Kimberly Carpenter	2008	Carnegie Mellon Symposium on Cognition Junior Investigator Travel Award
Kimberly Carpenter	2007	Autism Speaks, Pre-doctoral fellowship award
Kimberly Carpenter	2006	Howard Hughes Medical Institute, Translational Medicine Program, University of North Carolina School of Medicine
Rajendra Morey M.D.	2003	Janssen Travel Award to attend the International Congress on Schizophrenia Research
Odin van der Stelt Ph.D.	2003	International Congress on Schizophrenia Research – Young Investigator Award
Rajendra Morey M.D.	2003	Department of Psychiatry Research Fellowship Award

Pre-doctoral Trainees

Name	Pre/post doc	Duration	Degree(s)	Institution	Project title	Funding source
Past trainees						
Rachel Corr	Pre-doc	2016- 2022	PhD	UNC- Chapel Hill	Stress- Polyvictimization and Adolescent Brain development	NIMH



Name	Pre/post doc	Duration	Degree(s)	Institution	Project title	Funding source
Sarah Glier	Pre-doc	2018-2022	MD/PhD	UNC-Chapel hill	Brain structure and genetics in children and adolescents at risk for psychosis	NIMH
Joseph Shaffer	Grad student	2008-p2020	BS	UNC-chapel hill	Brain correlates of symptom severity in schizophrenia	NIMH, HHMI
Elizabeth Andersen	Grad student	2011-2017	PhD	UNC-Chapel hill	Stress and Affective Processing in Schizophrenia	NIMH, HHMI
Mariko Weber	Grad student	2009-2016	BS	UNC-Chapel hill	Functional and white matter imaging of fronto-limbic tracts in PTSD	NIMH, HHMI
Katie Cleary	Grad student	2008-2012	BS	USC	EEG of auditory process in children with autism	NIH
Sarah Hart	Pre-doc /	2003-2012	PhD	UNC-CH	Neurobiology of working memory and executive functions	NIH
Michael Dougherty	Med student	2010-2011	MD	Unc-chapel hill	Structural imaging in children with familial risk for schizophrenia	UNC
Kim (Carpenter) Hill	Pre-doc	2005-2011	Ph.D.	UNC-Chapel Hill	Neuroimaging of executive and social functions in autism	NIH

GRANTS AND CONTRACTS**FEDERAL**

CURRENT

Title: Pathogenesis of Neuroinflammation and Neurocognitive Impairment In HIV-infected Young Adult Cannabis Users

Major Goals: This proposal will investigate the role of marijuana in modulating neuroinflammation and HIV NCI and identify a set of candidate biomarkers with potential to perform in the immunomodulatory context of substance abuse.

Status of Support: Active

Project Number: R01DA048627

Name of PD/PI: Sellers, Christopher

Source of Support: Duke University/NIH

Primary Place of Performance: University of North Carolina at Chapel Hill

Project/Proposal Start and End Date: 06/2019-05/2025

Total Award Amount (including Indirect Costs): \$1,774,380

Person Months period:

Year	Person Months
2025	0.36 calendar

Title: Developmental Pathophysiology of Adverse Patterns of Substance Use in Adolescents with Anxiety

Major Goals: The proposed 5-year R01 study will examine maturational pathways of biomarkers (neural connectivity and stress physiology) to adverse patterns of substance use (APSU) in adolescents with anxiety symptoms to improve precision-based, targeted intervention.

Status of Support: Active

Project Number: R01DA057312

Name of PD/PI: Diana Fishbein & Aysenil Belger

Source of Support: NIH

Primary Place of Performance: University of North Carolina at Chapel Hill

Project/Proposal Start and End Date: 07/2023-04/2028

Total Award Amount (including Indirect Costs): \$3,394,539

Person Months per budget period:

Year	Person Months
2026	3.0 calendar
2027	1.8 calendar

Title: Mapping Neurocognitive Complications of Pediatric Type 1 Diabetes (T1D) and Potential Risk and Protective Factors

Major Goals: This proposal will establish a UNC clinical research center to participate in the T1D consortium to evaluate the neurocognitive complications of pediatric T1D and identify potential risks and



protective factors that affect brain and cognitive development trajectories in children with a first-time diagnosis of T1D. The project will contribute to a multi-site clinical research infrastructure to recruit and retain children and families with T1D through stakeholder engagement and effective dissemination, and will develop predictive models integrating multimodal brain, behavior and clinical data to assist in risk stratification and development of effective targeted early interventions and clinical care practices.

Status of Support: Active

Project Number: U01DK140764

Name of PD/PI: Aysenil Belger, Janice Hwang, Nina Jain MPIs

Source of Support: NIDDK

Primary Place of Performance: University of North Carolina at Chapel Hill

Project/Proposal Start and End Date: 08/2024-06/2029

Total Award Amount (including Indirect Costs): \$2,507,338

Person Months per budget period:

Year	Person Months
2026	1.44 calendar
2027	1.44 calendar
2028	1.2 calendar
2029	1.44 calendar

Title: Multisystem Stress Response Biotypes: Deriving Novel Physiological and Neural Risk Factors for Anhedonia in Adolescence

Major Goals: The objective of the current proposal is to characterize how biological acute stress response mechanisms influence the severity and trajectory of ANH. ANH research to date has almost exclusively focused on single-system physiological responses to acute stress, such as autonomic nervous system (ANS- parasympathetic and sympathetic nervous system branches - PNS-SNS) or endocrine (HPA - Hypothalamic Pituitary Adrenal) system responses.

Status of Support: Active

Project Number: R01MH136102

Name of PD/PI: Aysenil Belger and Danielle Roubinov MPI

Source of Support: NIH

Primary Place of Performance: University of North Carolina at Chapel Hill

Project/Proposal Start and End Date: 07/2024-06/2029

Total Award Amount (including Indirect Costs): \$3,704,025

Person Months per budget period:

Year	Person Months
2026	2.4 calendar
2027	2.4 calendar
2028	2.4 calendar



2029	3.0 calendar
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Title: Clinical Translational Research Center on Neurodevelopmental Disorders

Major Goals: This project is an interdisciplinary program with the overarching goal of supporting and promoting research relevant to understanding the pathogenesis and treatment of neurodevelopmental disorders.

Status of Support: ACTIVE

Project Number: P50HD13573

Name of PD/PI: Dichter, Gabriel

Source of Support: NICHD

Primary Place of Performance: UNC-Chapel Hill

Project/Proposal Start and End Date: (if available): 07/2020-05/2025

Total Award Amount (including Indirect Costs): \$6,220,000

Person Months (Calendar/Academic/Summer) per budget period.

Year	Person Months
2025	1.2 Cal Months

Title: North Carolina Translational and Clinical Sciences Institute (NC TraCS)

Subproject - Clinical and Translational Science Pilot Award CTSC0215 - Integrated Digital Health platform to assess and respond to mental health crises in children and adolescents

Major Goals: To catalyze development, testing, implementation, and dissemination of translational science and research to improve human health, with an explicit focus on advancing health equity.

Perform and support research that advances the science of translation, maximize the informativeness of translational research, train and maintain a diverse, expert, multidisciplinary translational research workforce and implement evidence-based strategies to improve human health.

Status of Support: Active

Project Number: UM1TR046

Name of PD/PI: Shaheen, Nicholas

Source of Support: NIH/NCATS

Primary Place of Performance: University of North Carolina at Chapel Hill

Project/Proposal Start and End Date: 03/2023-02/2030

Total Award Amount (including Indirect Costs): \$69,918,102

Total Award Amount of subproject: \$50,000

Person Months period:

Year	Person Months
4/1/24-3/31/25	0.6 calendar

Title: Bridging neuroscience and Juvenile Justice through a novel forensic neuroeducation curriculum.

Major Goals: We propose to bridge this gap by designing and implementing a targeted training initiative that leverages a multidisciplinary collaboration between neuroscientists (Belger/Fishbein), justice professionals (Greene and JJ professional) and education implementation experts (Morgan).



Status of Support: Active

Name of PD/PI: Aysenil Belger, Greene (MPI)

Source of Support: Dana Foundation

Primary Place of Performance: University of North Carolina at Chapel Hill

Project/ Start and End Date: 09/2024-02/2026

Total Award Amount: \$149,900

Person Months per budget period:

Year	Person Months
2025	1.2 calendar
2026	1.2 calendar

Title: ProCAN: Psychosis Risk Outcomes Compound Assessment Network

Major Goals: The Aim of this project is to evaluate the potential of AMP SCZ-selected compound(s) to detect a signal in CHR-P participants on one or more biological, digital, cognitive, or clinical outcome measures within a 16-week time frame.

Status of Support: Active

Project Number: 1U01MH137298

Name of PD/PI: Woods, Scott W (Perkins, Diana: PI of Consortium)

Source of Support: National Institute of Mental Health/NIH/DHHS

Primary Place of Performance: Yale University & University of North Carolina at Chapel Hill

Project/Proposal Start and End Date: 06/14/2024-05/31/2029

Total Award Amount (including Indirect Costs): \$3,446,060

Person Months per budget period:

Year	Person Months
2025	0.36 calendar
2026	0.36 calendar
2027	0.36 calendar
2028	0.36 calendar
2029	0.36 calendar

Title: EMERGE: Early Markers of Expressive and Receptive Language Growth in Ethnically Diverse Autistic Toddlers

Major Goals: We will recruit equal numbers of children at each site ($n \sim 70$). Further, a combination of parent report measures, observational measures, child administered assessments, and neurophysiological data (i.e., EEG) will be collected on each child at three time points.

Status of Support: Active

Project Number: R01DC021174

Name of PD/PI: Boyd, Brian

Source of Support: UCLA/NIH



Primary Place of Performance: University of North Carolina at Chapel Hill

Project/Proposal Start and End Date: 08/23/2024-7/31/2029

Total Award Amount (including Indirect Costs): \$326,079

Person Months per budget period:

Year	Person Months
2025	1.2 calendar

PENDING

Title: Multisystem Stress Response Biotypes: Deriving Novel Physiological and Neural Risk Factors for Anhedonia in Adolescence-Supplement

Major Goals: The objective of the current proposal is to characterize how acute biological stress response mechanisms influence the severity and trajectory of ANH. ANH research to date has almost exclusively focused on single-system physiological responses to acute stress, such as autonomic nervous system (ANS - parasympathetic and sympathetic nervous system branches - PNS-SNS) or endocrine (HPA - Hypothalamic Pituitary Adrenal)) system responses.

Status of Support: Pending

Project Number: Pending

Name of PD/PI: Belger, Ayse/Roubinov, Danielle

Source of Support: NIH

Primary Place of Performance: University of North Carolina at Chapel Hill

Project/Proposal Start and End Date: 11/01/2024-10/31/2025

Total Award Amount (including Indirect Costs): \$107,566

Person Months per budget period:

Year	Person Months
2025	0.0 calendar

OVERLAP

There is no scientific or budgetary overlap1 R01 DA055771-01 (Belger MPI)

09/01/23-08/31/28 3.6 Cal Months

(Perkins, PI of Subcontract)

NIH/Yale

09/08/20-08/31/25

0.24 Cal Months

\$ 264,135

COMPLETED

ProNET: Psychosis-Risk Outcomes Network

The University of North Carolina site will participate as site 5 in the ProNET consortium. We will recruit 40 CHR subjects and follow them with comprehensive outcome measures with eight visits over two years,



including at screening and baseline and 1, 2, 3, 6, 12, 18, and 24 months. We will also obtain multimodal biomarker assessments (3T MRI, ERP, fluid sampling, natural language sampling) at baseline and 2 months and passive and ecological momentary assessment throughout the project. Ten comparison subjects will also be assessed with clinical and biomarker measures at baseline.

Role: Investigator

Carolina Seminars (Conveners Belger, Roth, Brody)

UNC

06/01/2022-05/31/24

\$7,000

Art and the Brain: Neurologic Disorders in Famous Artists

Art, creativity, neurology, and psychiatry may seem to be divergent disciplines but their connections to brain function and brain disorders are a common feature. Reciprocally, art explores new ideas, metaphors, and conceptions that contribute to the ways we understand the world and the brain. The primary goal of this grant is to foster interdisciplinary conversations through readings and explorations of their art to examine and discuss how the various neurologic and neuropsychiatric disorders of famous artists are associated with their art, and how art has contributed to the development of neurology and medicine.

R01 MH103790 (Belger, PI)

NIH

07/01/15-05/31/21 (NCE) 1.44 Cal Months

\$452,442

Stress Regulation, Working Memory, and Cognitive Disorganization in Adolescence

The proposed integrative research will inform about the biological correlates of aberrant stress response and working memory capacity in adolescents, two core domains of dysfunction shared across multiple numerous disorders. Furthermore, identification of mechanisms by which altered stress-regulation contributes to working memory impairments and to severity of clinical high-risk symptomatology during adolescence is relevant for numerous psychotic disorders with peri-pubertal onset.

R01 MH103790-02S1 (Belger, PI)

NIH

06/01/16-05/31/21 (NCE) 0.96 Cal Months

\$85,821

Stress Regulation, Working Memory, and Cognitive Disorganization in Adolescence – NDAR Supplement

The work involves defining data dictionaries for each data structure, cleaning and formatting data, and uploading the data to the appropriate NIMH server. The data so shared will contribute to the building of a large information commons that includes the NIMH RDoC database and the National Database for Autism Research (NDAR) that will permit analyses of large data sets that have more power to uncover new relationships among highly multivariate and dimensional data sets.

U54 HD079124

Investigator (Piven, PI)

NICHD

09/24/13-05/31/20

\$836,230 0.96 Cal Months

This proposal has the overarching goal of supporting and promoting research relevant to understanding the pathogenesis and treatment of neurodevelopmental disorders.

R01 MH082004 (Perkins PI, Belger Co-I)

Investigator

NIH

01/01/17-12/31/18



5/9: Predictors and Mechanisms of Conversion to Psychosis

The multi-site collaboration will follow large CHR (n= 378) and demographically matched comparison (n= 162) samples that will undergo comprehensive assessments of biological and behavioral changes. This approach will answer important questions about the origins of the brain changes that give rise to psychosis and will provide insights into likely approaches to halting or mitigating the pathological process and advance our understanding of risk prediction, both critical steps in prevention. The goal of the study is to examine executive functioning and frontal lobe activation in preschool children using portable non-invasive functional near-infrared spectroscopy.

NCSU/NSF (Belger, PI of Subcontract)

09/01/16-08/31/18

\$28,783 1.2 Cal months

Development of Wearable Electronics for Ecological Measurement Of Neurocognitive And Affective Function In Adolescence and Maturation of Stress Pathways and Vulnerability

The proposed device development budgeted under this supplement will enable the UNC and the NCSTATE co-Investigators to deploy new devices during the week prior to and subsequent to the implementation of the neurobiological lab measures in a subset of 30 adolescents as a pilot feasibility study. The investigators will examine the association between individual differences in brain function, emotion regulation, and cognition evaluated in the lab environment and the real-time physiological (cardiac), motion and sleep data acquired using ecological measures recorded on these wearable electronics.

R21 MH101409 (Rubinow, PI)

09/13/13-08/31/15

Investigator

\$150,000 0.48 Cal Months

NIH/NIMH

Neuroendocrine Mechanisms of Reproductive Hormone Related Affective Dysfunction

The proposed study involves experimentally manipulating reproductive hormones in euthymic women to create a scaled down version of the changes that occur at the puerperium. This endocrine manipulation paradigm will be used to examine the neurocircuitry underlying the regulation of affect and reward processing under baseline and hormone withdrawal-precipitated conditions among women who are expected to experience hormone-related affective dysregulation (n=15) and controls (n=15).

R21 DA031316 (Grewen PI)

03/15/12-02/28/15

NIH/NIDA

\$125,000 0.48 Cal Months

Perinatal Nicotine and Auditory Evoked Potentials in Early Infancy

This grant supports investigation of the effects of perinatal nicotine from maternal smoking and second-hand smoke on infant auditory processing and language development in the first year.

U01 MH082004 (Perkins, PI)

09/30/08-09/30/14

Investigator

\$0 NCE

NIH

5/8 Predictors and Mechanisms of Conversion to Psychosis (NAPLS)

This is a continuation of the 3-site collaborative U01 that aims to improve identification of individuals who will develop schizophrenic psychosis (including brief psychotic disorder, schizophreniform disorder, schizophrenia, or schizoaffective disorder) at the initial prodromal stage of illness, prior to the onset of the full schizophrenic syndrome.

R01 MH061603 (Gilmore, PI)

08/01/07-07/31/13

Project PI

\$0 NCE

NIH/NIMH

UNC Silvio O. Conte Center : Prospective Studies of the Pathophysiology of schizophrenia



To identify pathogenic mechanisms in schizophrenia and related psychotic disorders using targeted gene strategies to develop animal models and neurobiologic studies of high risk human subjects

P30 HD03110, (Piven, PI)
Core PI
NIH/NICHD

08/01/08-06/30/13
\$861,266

Child Development and Mental Retardation Core – Developmental Neuroimaging

To provide Educational, technical, training, and environmental support and resources for all projects in the Neurodevelopmental Disorders Research Center that have or plan on having a Neuroimaging data acquisition or data analysis component.

R01 HD042168
Co-Investigator (Baranek PI), PI of EEG project
NIH/NICHD

07/01/08-06/30/13
\$314,627

Sensory Experiences in Children with Autism

The major goals of this project are to study longitudinal developmental changes, predictors of functional outcomes and pathogenesis of sensory features in children with autism and comparisons of children with developmental delay and/or typically developing children.

R01 MH058251 (Belger, PI)
NIH/NIMH

04/06/01-05/31/13
\$0 NCE

Neurobiology of Selective Attention in Schizophrenia

The clinical objective of the proposed studies is to relate selective attention deficits in schizophrenia to symptomatology and chronicity of this illness.

U54 MH066418 (Piven, PI)
Project PI
NIH/NIMH

07/01/07 - 06/30/12
\$7,500,000

Autism Center of Excellence (ACE): Gene-Brain-Behavior in Autism

To conduct fMRI/Longitudinal MRI studies of social/affective processes and executive function/ritualistic-repetitive behaviors in adults and very young children with autism.

U24 RR021992 (Belger, PI - FUNCTION BIRN)
NIH/NCRR

09/30/06-11/30/11
\$44,613 (Subcontract to UNC)

First BIRN (Biomedical Informatics Resource Network)

The goal of this grant is to fund a national infrastructure for large scale, multi-center studies of brain functions using functional magnetic resonance imaging (fMRI).

P01 NS41328 (Belger, PI)

09/01/07-08/31/11
\$22,053 (subcontract)

NIH/NINDS
Human Functional Brain Anatomy (PPG)



This Program Project will investigate the functional neuroanatomy of the human brain using high-field functional magnetic resonance imaging (functional MRI). The four scientific projects are strongly linked by their focus on the relationship between brain and behavior. The projects are organized into a logical progression from sensory processing through response.

U54 MH066418 (Belger, Project PI) 08/01/02 - 06/30/07
\$1,107,230

NIH/NIMH

Gene-Brain-Behavior in Autism (STAART Center, Proj. 2)

To conduct fMRI/Longitudinal MRI studies of social/affective processes and executive function/ritualistic-repetitive behaviors in adults and very young children with autism.

R03 HD40249 (Belger, PI) 04/01/01 – 03/31/03
\$100,000

NIH/NICH/HD

Functional Neuroimaging in Turner Syndrome

To examine the neurobiological correlates of visuospatial processing deficits in Turner's Syndrome using functional magnetic resonance imaging (fMRI).

FOUNDATION

COMPLETED

Foundation of Hope (Grewen, PI) 05/01/15-04/30/18
\$39,956 0.6 Cal Months

Oxytocin Effects on Cocaine-Induced Maternal Neglect

The proposed research would be the first to test whether short term postpartum oxytocin treatment can improve maternal response to infants.

Autism Speaks (Belger, PI, Watson Co-PI) 10/01/18-10/1/19
\$59,852

Understanding pathways to auditory processing disorders in infants at high risk for ASD

The proposed research will assess how sound processing difficulties develop in families affected by autism.

Foundation of Hope (Elbogen, Belger, PIs) 08/01/14-07/31/17
\$31,222 0.12 Cal Months

Neural Basis Of Decision Making And Emotion Regulation Deficits In Post-traumatic Brain Disorder (PTSD)

The goal of this project is to characterize brain function and connectivity impairments associated with deficient cognitive control and emotion regulation in veterans with post-traumatic stress disorder (PTSD).

Simons Foundation (Belger, PI) 07/01/15-06/30/17
\$211,932 0.96 Cal months

Portable Assessments of Neural Markers of Social Impairment in ASD Children



The overarching goal of this Project is to identify a set of measures that can potentially be used as stratification biomarkers and/or as outcome “portable” measures of social impairment in children with ASD ages 3-9 years, across a range of IQ levels, and that can be deployed and implemented in the natural environment of the child using wireless portable measures.

2KR661513 04/01/14-03/31/16
Belger (Co-PI) \$2,000
UNC TraCS

Brain Connectivity and Plasticity in Children with Autism Spectrum Disorder

2KR531401 04/04/16-03/31/16
Belger (Co-PI) \$2,000
UNC TraCS

Paradigm development for the study of neural oscillatory activity abnormalities in children with autism

NARSAD (Belger PI) 01/01/10-12/31/13
\$58,330

Identifying Discrete In Vivo Biobehavior Markers For Schizophrenia By Using A Novel Learned Irrelevance Paradigm In Conjunction With Electrophysiological And Functional Neuroimaging Techniques

NARSAD-Independent Investigator’s Award (Belger PI) 09/15/04-05/14/11
\$98,693

Mapping Frontostriate Circuit Dysfunction in Individuals at Ultra-High Risk for Schizophrenia: In search of intermediate Brain Phenotypes Using Neuroimaging

The goal of this project is to use Functional Magnetic Resonance Imaging (fMRI) to characterize cortical pathology associated with the ultra high-risk for schizophrenia in prodromal and symptomatic individuals to identify measures that can be used for early intervention strategies designed to prevent the onset of schizophrenia.

Role: PI

University Research Council (Belger PI) 12/01/09–11/30/11
\$5,000

Functional Brain Imaging of Social Emotional and Executive Deficits in Autism

To provide insight into the differences between how the brain of individuals with autism and those of typically developing individuals maintain goal-directed behaviors while inhibiting interference from competing social information.

Foundation of Hope (Belger PI) 04/12/07-09/15/10
\$13,333

Search For Brain Bio-Behavioral Markers Of Schizophrenia: Clinical, Electrophysiological, Neuroimaging And Neurocognitive Alterations In Clinical And Genetic High-Risk Adolescents

The goal of this project is to map the maturation of cortical circuits and higher-order cognitive functions in children and adolescents at genetic risk for schizophrenia.

NARSAD (Belger PI) 07/01/06-12/31/08
\$58,393



The neural influence of affective dysregulation on executive function in unipolar major depression

To study how the effects of affective dysregulation in depression extend beyond responses solely to emotional stimuli but impact the much broader ability to achieve motivationally salient goals critical for effective functioning.

Foundation of Hope (Belger PI) 02/15/05-03/01/08
The role of dopamine in normal brain function \$30,000

To use Functional Magnetic Resonance Imaging (fMRI) to characterize to understand the dopamine effects in normal healthy subjects.

Foundation of Hope (Belger PI) 02/26/01-12/31/05
\$40,000

Cortical function in the schizophrenia Prodrome and First Episode

NARSAD – Young Investigator Award (Belger PI) 07/01/99–06/30/02
\$44,346

ERP and FMRI Correlates of Executive Cognitive Deficits and Symptomatology in Chronic Schizophrenia.

Foundation of Hope (Belger, PI) 02/01/01–02/01/02
\$30,000

To determine the functional and structural correlates of neuropathology immediately preceding and following the onset of schizophrenia through a longitudinal study of brain morphology and function.

(Belger, PI) 07/01/99–06/30/02
NARSAD - Young Investigator Award \$44,346

ERP and FMRI Correlates of Executive Cognitive Deficits and Symptomatology in Chronic Schizophrenia.

PHARMACEUTICAL

COMPLETED

Novartis 09/01/11–10/31/13
Investigator (Lieberman, PI) \$304,436 total

Clinical and Biomarker Assessment of Efficacy of Cognitive Remediation in Patients with Schizophrenia Stabilized on Lurasidone - TENETS

This projects aims to compare cognitive remediation to active control on changes from lurasidone stabilized baseline to end point in indices of neurocognition, and functional brain activation (ERP and fMRI) during cognitive activation tasks.

Janssen Pharmaceuticals (Belger, PI) 01/01/02-12/31/07
\$614,357



Risperidone effects on frontal and temporal cortical function in schizophrenia patients undergoing fMRI cognitive performance

To compare the therapeutic efficacy of Risperidone, Olanzapine and its potential for neuroprotection in psychosis patients using psychopathology, neurocognition and MRI as measures of outcome.

TRAINING GRANTS

COMPLETED

NICHHD 5T32HD007376-29

Human Development: Interdisciplinary Research Training

PI: Aysenil Belger, PhD & Cathi Propper, PhD (Contact)

Percentage of Effort: 0%

Project Period: 05/01/2019–04/30/2020

Annual Direct Funding: \$535,002

NIH T32 MH100035

Biostatistics and Mental Health Neuroimaging and Genomics Training Grant

PI: Hongtu Zhu

Mentor: Aysenil Belger, PhD

Percentage of Effort: 0%

Project Period: 07/01/14-06/30/19

Annual Direct Funding: \$326,194

NIGMS T32 GM008719

Medical Scientist Training Program

PI: Eugene Orringer

Mentor: Aysenil Belger, PhD

Percentage of Effort: 0%

Project Period: 07/01/99-06/30/19

NINDS T32 NS007431

Neuroscience Predoctoral Training at UNC-Chapel Hill

PI: William D Snider

Mentor: Aysenil Belger, PhD

Percentage of Effort: 0%

Project Period: 09/30/97-06/30/19

Annual Direct Funding: \$301,645

NIMH T32 MH093315

Postdoctoral Training in Reproductive Mood Disorders

PIs: Susan Girdler and David Rubinow

Mentor: Aysenil Belger, Ph.D.

Percentage of Effort: 0%

Annual Direct Funding: \$111,752

Project Period: 07/01/12–06/30/17

NIH 1 T32 MH076694-01A1

Postdoctoral Research Training in Eating Disorders

PI: Cynthia M. Bulik

Mentor: Aysenil Belger, PhD



Percentage of Effort: 0%
Project Period: 07/17/07–06/30/17
Annual Direct Funding: \$105,268

5T32 AT03378-08

UNC Research Fellowship in Complementary & Alternative Medicine

PI: John Douglas Mann
Mentor: Aysenil Belger, PhD
Percentage of Effort: 0%
Project Period: 07/01/06-06/30/17

NICHD T32HD040127

Postdoctoral Research in Neurodevelopmental Disorders

PI: Joseph Piven/Benjamin Philpot
Mentor: Aysenil Belger
Percentage of Effort: 0%
Annual Direct Funding: \$273,813
Project Period: 05/15/01-04/30/17

PROFESSIONAL SERVICES

TO FIELD/DISCIPLINE

American College of Neuropsychopharmacology (Member) – Program Committee, Membership Committee

Society for Neuroscience (member)

Society for Biological Psychiatry (member) – Program Committee, Membership Committee

Cognitive Neuroscience Society (member)

American Psychological Association (member)

Manuscript Reviewer (selected)

Journal of Neuroscience	American Journal of Psychology
Archives of General Psychiatry	Journal of Cognitive Neuroscience
Biological Psychiatry	NeuroImage
Neuropsychopharmacology	NeuroReport
Psychopharmacology	Acta Scandinavia Psychiatrica
Journal of Abnormal Psychology	The Open Neuroimaging Journal

NIH Review/Study Section/ Committee Activities (selected)

BRAIN Initiative: Team-Research BRAIN Circuit Programs - TeamBCP
(U19)(RFA-NS-17-018)

ZRG1 BDCN-C (55) S, Reviewer, Using the NIMH Research Domain Criteria
(RDOC) Approach to Understand Psychosis (R01)

ZMH1 ERB-S, Reviewer, The Neural Mechanisms of Multi-Dimensional
Emotional and Social Representation



ZRG1 BDCN-A, Reviewer, Neural Basis of Psychopathology, Addictions and Sleep Disorders Study Section (NPAS) – Standing Committee member

ZHD1 MRG-C ID, IDD P30 RFA, Reviewer, Eunice Kennedy Shriver National Institute of Child Health & Human Development: Special Emphasis Panel

ZMH1-ERB-L 04 S, Reviewer, Biobehavioral Research Awards for Innovative New Scientists (BRAINS)

ZRG1 BDCN-N (02) , Special Emphasis Panel, Mental Health and Neurodegenerative Disorders Members Conflict

ZMH1 ERB-L06 S, Behavioral Research Awards for Innovative Scientists

ZMH1 ERB-Z-A1, Competitive Supplement Special Emphasis Panel MH 084840

ZMH1-ERB-L(06), National Institutes of Mental Health Special Emphasis Panel

ZNH1 ERB-Z(01), Social Neuroscience Panel

ZNH1 ERB-Z(03), Translational Research Center in Behavioral Science

NIH ZRG1 BDCN-N 02 M, Center for Scientific Review Special Emphasis Panel

NIH/NIMH , ZMH1 ERB-Z 04, Cognition and Schizophrenia Panel

NIH/NIMH, ZMH1 ERB-Z 05 S, Neurocognition and Emotion in Schizophrenia

NIH/CSR Psychopathology, Developmental Disabilities, Stress and Aging Fellowship Study Section

Reviewer for Concept Award #2 panel of the 2007 Autism Spectrum Disorder Research Program (ASDRP).

Reviewer, Concept Award #2 panel of the 2007 Autism Spectrum Disorder Research Program (ASDRP).

NIH, ZRG1 BDCN-N 02 M, Member Conflict: Brain Disorders and Clinical Neuroscience

NIH, ZMH1 ERB-H(06) Study Section Review Group Member

Steering Committee for the Pharmacologic and Clinical Testing of a D1 Agonist for Neuropsychiatric Disorders (CDDG)

HOSPITAL AND UNIVERSITY COMMITTEES WITHIN UNC-CH

2024-2025	UNC PAFPE (Provost's Academic Freedom and Free Expression) working group
2018-2022	UNC SOM Full Professor Appointment and Promotion Committee



2016-2018	Faculty Hearings Committee, University of North Carolina
2011-2014	Faculty Grievance Committee, University of North Carolina
2006- present	University of North Carolina, Faculty Research Advisory Committee
2002 - present	Member of the Imaging Subcommittee of the RAC, University of North Carolina, School of Medicine
2002 – present	Graduate Faculty Member of the Curriculum of Neurobiology, University of North Carolina at Chapel Hill
2001 – present	Member Executive Committee, Neurodevelopmental Disorders Research Center, University of North Carolina School of Medicine
2016– present	Director, Clinical Translational Research Core, Intellectual and Developmental Disabilities Research Center, University of North Carolina School of Medicine
2000 – 2015	Director, Neuroimaging Research, Department of Psychiatry, University of North Carolina School of Medicine
2010 - present	Full Professors, Department of Psychiatry, University of North Carolina
2007-2010	Mentor, Howard Hughes Medical Institute Translational Medicine Program, University of North Carolina School of Medicine
2001	Research Fellowship Training Grant Faculty, Department of Psychiatry, University of North Carolina School of Medicine
2001	Postdoctoral Training Program, Neurodevelopmental Disorders Research Center (NDRC), University of North Carolina School of Medicine

OTHER ADMINISTRATIVE ACTIVITIES

2024-2025	ACNP Membership Committee Co-Chair
2023-2024	ACNP Membership Committee
2019-2021	ACNP Education and Training Committee Chair
2017-2019	ACNP Program Committee
2007-2010	President-Elect, Turkish-American Students and Scholars Association (TASSA)
2004-2006	Program Planning Committee for the Society of Biological Society
1999-present	Director, Neuroimaging Research in Psychiatry, UNC Chapel Hill
1995-1999	Director, Cognitive Neuroscience Laboratory, Psychiatry Service, VA , Connecticut Healthcare System West Haven, CT



1997	Resident Recruitment Committee, Department of Psychiatry, Yale University School of Medicine
1991- 1993	University of Illinois Graduate Student Advisory Council
1987 - 1993	University of Illinois Psychology Department Graduate Student Organization
1992	University of Illinois Hohenboken Teaching Award selection Committee

