

DUKE UNIVERSITY MEDICAL CENTER

CURRICULUM VITAE

Date Prepared: February 1, 2024

Name: Lauren Franz M.B.Ch.B., M.P.H.

Primary academic appointment:

Associate Professor in the Department of Psychiatry and Behavioral Sciences

Division of Child and Family Mental Health and Developmental Neuroscience

Secondary academic appointment:

Associate Research Professor in the Duke Global Health Institute

Honorary academic appointment:

Honorary Associate Professor, Department of Psychiatry and Mental Health, University of Cape Town

Medical Licensure: North Carolina License #2014-01571

Board Certified: Psychiatry #71190 and Child and Adolescent Psychiatry #11045

<u>Education</u>	<u>Institution</u>	<u>Date</u>	<u>Degree</u>
Medical School	Stellenbosch University, South Africa	2002	MBChB
Graduate School	Emory University	2007	MPH

Professional training and academic career:

<u>Institution</u>	<u>Position/title</u>	<u>Dates</u>
Katutura State Hospital, Namibia	Intern	2003
Manguzi Hospital, South Africa	Community service medical doctor	2004
Duke University	Intern	2008
Duke University	Psychiatry resident	2010
Duke University	Child and adolescent psychiatry fellow	2014
Duke University	Global health fellow	2014
Duke University	Fogarty global health fellow	2014
Duke University	Assistant Professor of Psychiatry and Behavioral Sciences	2014-2023
Duke University	Assistant Research Professor of global health	2014-2023
Duke University	Faculty in Residence (Cape Town, South Africa)	2017-2018
University of Cape Town	Honorary senior lecturer, Department of Psychiatry and Mental Health	2017-2024
Duke University	Associate Director, Duke Center for Autism and Brain Development	2022-2024
University of Cape Town	Honorary Associate Professor, Department of Psychiatry and Mental Health	2024-Present
Duke University	Interim Director, Duke Center for Autism and Brain Development	2024-Present

Publications:

1. Compton MT, Carter T, Bergner E, Franz L, Stewart T, Trotman H, McGlashan TH, McGorry PD. Defining, operationalizing, and measuring the duration of untreated psychosis: Advances, limitations, and future directions. *Early Intervention in Psychiatry* 2007; 1: 236-250. DOI: 10.1111/j.1751-7893.2007.00036.x.
2. Compton MT, Leiner AS, Bergner E, Chein VH, Franz L, Goulding SM, Trotman H. Prevalence, factorial structure, and clinical correlates of first rank symptoms in urban, African American patients with first-episode non-affective psychosis. *Clinical Schizophrenia and Related Psychoses* 2008; 2(1): 59-69. DOI: 10.3371/CSRP.2.1.4.
3. Bergner E, Leiner AS, Carter T, Franz L, Thompson NJ, Compton MT. The period of untreated psychosis before treatment initiation: a qualitative study of family members' perspectives. *Compr Psychiatry*. 2008 Nov-Dec;49(6):530-6. doi: 10.1016/j.comppsy.2008.02.010. PMID: 18970900
4. Lee J, Franz L, Goforth HW. Serotonin syndrome in a chronic-pain patient receiving concurrent methadone, ciprofloxacin, and venlafaxine. *Psychosomatics*. 2009 Nov-Dec;50(6):638-9. doi: 10.1176/appi.psy.50.6.638. PMID: 19996237.
5. Goulding SM, Franz L, Bergner E, Compton MT. Social functioning in urban, predominantly African American, socially disadvantaged patients with first-episode nonaffective psychosis. *Schizophr Res*. 2010 Jun;119(1-3):95-100. doi: 10.1016/j.schres.2009.12.018. Epub 2010 Jan 8. PMID: 20060685
6. Franz L, Carter T, Leiner AS, Bergner E, Thompson NJ, Compton MT. Stigma and treatment delay in first-episode psychosis: a grounded theory study. *Early Interv Psychiatry*. 2010 Feb;4(1):47-56. doi: 10.1111/j.1751-7893.2009.00155.x. PMID: 20199480
7. Deepmala D, Franz L, Aponte C, Agrawal M, Jiang W. Identification of provider characteristics influencing prescription of analgesics: a systematic literature review. *Pain Pract*. 2013 Jul;13(6):504-13. doi: 10.1111/papr.12007. Epub 2012 Nov 16. PMID: 23157929
8. Franz L, Angold A, Copeland W, Costello EJ, Towe-Goodman N, Egger H. Preschool anxiety disorders in pediatric primary care: prevalence and comorbidity. *J Am Acad Child Adolesc Psychiatry*. 2013 Dec;52(12):1294-1303.e1. doi: 10.1016/j.jaac.2013.09.008. Epub 2013 Sep 27. PMID: 24290462
9. Towe-Goodman NR, Franz L, Copeland W, Angold A, Egger H. Perceived family impact of preschool anxiety disorders. *J Am Acad Child Adolesc Psychiatry*. 2014 Apr;53(4):437-46. doi: 10.1016/j.jaac.2013.12.017. Epub 2014 Jan 13. PMID: 24655653
10. Maselko J, Sikander S, Bhalotra S, Bangash O, Ganga N, Mukherjee S, Egger H, Franz L, Bibi A, Liaqat R, Kanwal M, Abbasi T, Noor M, Ameen N, Rahman A. Effect of an early perinatal depression intervention on long-term child development outcomes: follow-up of the Thinking Healthy Programme randomised controlled trial. *Lancet Psychiatry*. 2015 Jul;2(7):609-17. doi: 10.1016/S2215-0366(15)00109-1. Epub 2015 Jun 2. PMID: 26303558
11. Zucker N, Copeland W, Franz L, Carpenter K, Keeling L, Angold A, Egger H. Psychological and Psychosocial Impairment in Preschoolers With Selective Eating. *Pediatrics*. 2015 Sep;136(3):e582-90. doi: 10.1542/peds.2014-2386. Epub 2015 Aug 3. PMID: 26240213
12. Maselko J, Sikander S, Bangash O, Bhalotra S, Franz L, Ganga N, Rajan DG, O'Donnell K, Rahman A. Child mental health and maternal depression history in Pakistan. *Soc Psychiatry Psychiatr Epidemiol*. 2016 Jan;51(1):49-62. doi: 10.1007/s00127-015-1143-x. Epub 2015 Nov 11. PMID: 26561398
13. Franz L, Chambers N, von Isenburg M, de Vries PJ. Autism spectrum disorder in sub-saharan africa: A comprehensive scoping review. *Autism Res*. 2017 May;10(5):723-749. doi: 10.1002/aur.1766. Epub 2017 Mar 7. PMID: 28266791
14. Dawson G, Sun JM, Davlantis KS, Murias M, Franz L, Troy J, Simmons R, Sabatos-DeVito M, Durham R, Kurtzberg J. Autologous Cord Blood Infusions Are Safe and Feasible in Young Children with Autism Spectrum Disorder: Results of a Single-Center Phase I Open-Label Trial. *Stem Cells Transl Med*. 2017 May;6(5):1332-1339. doi: 10.1002/sctm.16-0474. Epub 2017 Apr 5. PMID: 28378499
15. Guler J, de Vries PJ, Seris N, Shabalala N, Franz L. The importance of context in early autism intervention: A qualitative South African study. *Autism*. 2018 Nov;22(8):1005-1017. doi: 10.1177/1362361317716604. Epub 2017 Sep 15. PMID: 28914083
16. Murias M, Major S, Davlantis K, Franz L, Harris A, Rardin B, Sabatos-DeVito M, Dawson G. Validation of eye-tracking measures of social attention as a potential biomarker for autism clinical

- trials. *Autism Res.* 2018 Jan;11(1):166-174. doi: 10.1002/aur.1894. Epub 2017 Nov 29. PMID: 29193826
17. Franz L, Adewumi K, Chambers N, Viljoen M, Baumgartner JN, de Vries PJ. Providing early detection and early intervention for autism spectrum disorder in South Africa: stakeholder perspectives from the Western Cape province. *J Child Adolesc Ment Health.* 2018 Nov;30(3):149-165. doi: 10.2989/17280583.2018.1525386. Epub 2018 Nov 7. PMID: 30403918
 18. Carpenter KLH, Major S, Tallman C, Chen LW, Franz L, Sun J, Kurtzberg J, Song A, Dawson G. White Matter Tract Changes Associated with Clinical Improvement in an Open-Label Trial Assessing Autologous Umbilical Cord Blood for Treatment of Young Children with Autism. *Stem Cells Transl Med.* 2019 Feb;8(2):138-147. doi: 10.1002/sctm.18-0251. Epub 2019 Jan 8. PMID: 30620122
 19. Ramseur K 2nd, de Vries PJ, Guler J, Shabalala N, Seris N, Franz L. Caregiver descriptions of joint activity routines with young children with autism spectrum disorder in South Africa. *Pediatr Med.* 2019 Mar;2:6. doi: 10.21037/pm.2019.03.04. Epub 2019 Mar 13. PMID: 31032484
 20. Makombe CBT, Shabalala N, Viljoen M, Seris N, de Vries PJ, Franz L. Sustainable implementation of early intervention for autism spectrum disorder through caregiver coaching: South African perspectives on barriers and facilitators. *Pediatr Med.* 2019 Aug;2:39. doi: 10.21037/pm.2019.07.08. Epub 2019 Aug 8. PMID: 31528856
 21. Franz L, Dawson G. Implementing early intervention for autism spectrum disorder: a global perspective. *Pediatr Med.* 2019 Aug;2:44. doi: 10.21037/pm.2019.07.09. Epub 2019 Aug 23. PMID: 31535090
 22. Dawson G, Sun JM, Baker J, Carpenter K, Compton S, Deaver M, Franz L, Heilbron N, Herold B, Horrigan J, Howard J, Kosinski A, Major S, Murias M, Page K, Prasad VK, Sabatos-DeVito M, Sanfilippo F, Sikich L, Simmons R, Song A, Vermeer S, Waters-Pick B, Troy J, Kurtzberg J. A Phase II Randomized Clinical Trial of the Safety and Efficacy of Intravenous Umbilical Cord Blood Infusion for Treatment of Children with Autism Spectrum Disorder. *J Pediatr.* 2020 Jul;222:164-173.e5. doi: 10.1016/j.jpeds.2020.03.011. Epub 2020 May 19. PMID: 32444220.
 23. Sun JM, Dawson G, Franz L, Howard J, McLaughlin C, Kistler B, Waters-Pick B, Meadows N, Troy J, Kurtzberg J. Infusion of human umbilical cord tissue mesenchymal stromal cells in children with autism spectrum disorder. *Stem Cells Transl Med.* 2020 Oct;9(10):1137-1146. doi: 10.1002/sctm.19-0434. Epub 2020 Jun 12. PMID: 32531111
 24. Pham TV, Kaiser BN, Koirala R, Maharjan SM, Upadhaya N, Franz L, Kohrt BA. Traditional Healers and Mental Health in Nepal: A Scoping Review. *Cult Med Psychiatry.* 2021 Mar;45(1):97-140. doi: 10.1007/s11013-020-09676-4. PMID: 32444961
 25. Chakraborty P, Carpenter KLH, Major S, Deaver M, Vermeer S, Herold B, Franz L, Howard J, Dawson G. Gastrointestinal problems are associated with increased repetitive behaviors but not social communication difficulties in young children with autism spectrum disorders. *Autism.* 2021 Feb;25(2):405-415. doi: 10.1177/1362361320959503. Epub 2020 Sep 24. PMID: 32972215.
 26. Ivanov I, Pacheva I, Timova E, Iordanova R, Galabova F, Gaberova K, Petkova A, Kotetarov V, Panova M, Tonchev N, Franz L. The Route to Autism Spectrum Diagnosis in Pediatric Practice in Bulgaria. *Diagnostics (Basel).* 2021 Jan 11;11(1):106. doi: 10.3390/diagnostics11010106. PMID: 33440823
 27. Perochon, S, Di Martino M, Aiello R, Baker J, Carpenter K, Chang Z, Compton S, Davis N, Eichner B, Espinosa S, Flowers J, Franz L, Gagliano M, Harris A, Howard J, Kollins S.H, Perrin EM, Raj P, Spanos M, Walter B, Sapiro G, and Dawson G. A Scalable Computational Approach to Assessing Response to Name in Toddlers with Autism. *J Child Psychol Psychiatry.* 2021 Feb 28. Epub ahead of print. PMID: 33641216.
 28. Kim ET, Franz L*, Fannin DK, Howard J, Maslow G. Educational classifications of autism spectrum disorder and intellectual disability among school-aged children in North Carolina: Associations with race, rurality, and resource availability. *Autism Res.* 2021 May;14(5):1046-1060. doi: 10.1002/aur.2492. Epub 2021 Mar 1. PMID: 33644951. (*Joint first author).
 29. Chang Z, Di Martino JM, Aiello R, Baker J, Carpenter K, Compton S, Davis N, Eichner B, Espinosa S, Flowers J, Franz L, Harris A, Howard J, Perochon S, Perrin EM, Krishnappa Babu PR, Spanos M, Sullivan C, Walter BK, Kollins SH, Dawson G, Sapiro G. Computational Methods to Measure Patterns of Gaze in Toddlers With Autism Spectrum Disorder. *JAMA Pediatr.* 2021 Aug 1;175(8):827-836. doi: 10.1001/jamapediatrics.2021.0530. PMID: 33900383

30. Franz L, Howard J, Viljoen M, Sikich L, Chandrasekhar T, Kollins SH, Lee L, Ndlovu M, Sabatos-DeVito M, Seris N, Shabalala N, Spanos M, de Vries PJ, Dawson G. Pragmatic adaptations of telehealth-delivered caregiver coaching for children with autism in the context of COVID-19: Perspectives from the United States and South Africa. *Autism*. 2022 Jan;26(1):270-275. doi: 10.1177/13623613211022585. Epub 2021 Jun 8. PMID: 34098745
31. Major S, Isaev D, Grapel J, Calnan T, Tenenbaum E, Carpenter K, Franz L, Howard J, Vermeer S, Sapiro G, Murias M, Dawson G. Shorter average look durations to dynamic social stimuli are associated with higher levels of autism symptoms in young autistic children. *Autism*. 2022 Aug;26(6):1451-1459. doi: 10.1177/13623613211056427. Epub 2021 Dec 14. PMID: 34903084
32. Dawson-Squibb JJ, Davids EL, Chase R, Puffer E, Rasmussen JDM, Franz L, de Vries PJ. Bringing Parent-Child Interaction Therapy to South Africa: Barriers and Facilitators and Overall Feasibility-First Steps to Implementation. *Int J Environ Res Public Health*. 2022 Apr 7;19(8):4450. doi: 10.3390/ijerph19084450. PMID: 35457315
33. Franz L, Goodwin CD, Rieder A, Matheis M, Damiano DL. Early intervention for very young children with or at high likelihood for autism spectrum disorder: An overview of reviews. *Dev Med Child Neurol*. 2022 Sep;64(9):1063-1076. doi: 10.1111/dmcn.15258. Epub 2022 May 18. PMID: 35582893
34. Dawson G, Franz L, Brandsen S. At a Crossroads-Reconsidering the Goals of Autism Early Behavioral Intervention From a Neurodiversity Perspective. *JAMA Pediatr*. 2022 Sep 1;176(9):839-840. doi: 10.1001/jamapediatrics.2022.2299. PMID: 35816341
35. Dawson G, Franz L, Brandsen S. Neurodiversity and Early Autism-Reply. *JAMA Pediatr*. 2022 Dec 1;176(12):1273-1274. doi: 10.1001/jamapediatrics.2022.4147. PMID: 36315161
36. Krishnappa Babu PR, Di Martino JM, Chang Z, Perochon S, Aiello R, Carpenter KLH, Compton S, Davis N, Franz L, Espinosa S, Flowers J, Dawson G, Sapiro G. Complexity analysis of head movements in autistic toddlers. *J Child Psychol Psychiatry*. 2023 Jan;64(1):156-166. doi: 10.1111/jcpp.13681. Epub 2022 Aug 14. PMID: 35965431
37. Carpenter KLH, Davis NO, Spanos M, Sabatos-DeVito M, Aiello R, Baranek GT, Compton SN, Egger HL, Franz L, Kim SJ, King BH, Kolevzon A, McDougale CJ, Sanders K, Veenstra-VanderWeele J, Sikich L, Kollins SH, Dawson G. Adaptive Behavior in Young Autistic Children: Associations with Irritability and ADHD Symptoms. *J Autism Dev Disord*. 2022 Oct 12. doi: 10.1007/s10803-022-05753-2. Epub ahead of print. PMID: 36222990.
38. Perochon S, Matias Di Martino J, Carpenter KLH, Compton S, Davis N, Espinosa S, Franz L, Rieder AD, Sullivan C, Sapiro G, Dawson G. A tablet-based game for the assessment of visual motor skills in autistic children. *NPJ Digit Med*. 2023 Feb 3;6(1):17. doi: 10.1038/s41746-023-00762-6. PMID: 36737475.
39. Howard J, Herold B, Major S, Leahy C, Ramseur K 2nd, Franz L, Deaver M, Vermeer S, Carpenter KL, Murias M, Huang WA, Dawson G. Associations between executive function and attention abilities and language and social communication skills in young autistic children. *Autism*. 2023 Oct;27(7):2135-2144. doi: 10.1177/13623613231154310. Epub 2023 Feb 19. PMID: 36802865.
40. Wall CA, Sabatos-DeVito M, Franz L, Howard J, Major S, Bey A, Dawson G. Eye-tracking measures of social versus nonsocial attention are related to level of social engagement during naturalistic caregiver-child interactions in autistic children. *Autism Res*. 2023 May;16(5):1052-1062. doi: 10.1002/aur.2920. Epub 2023 Mar 20. PMID: 36942384.
41. Yuan A, Sabatos-DeVito M, Bey A, Major S, Carpenter K, Franz L, Howard J, Vermeer S, Simmons R, Troy J, Dawson G. Automated movement tracking of young autistic children during free play is correlated with clinical features associated with autism. *Autism*. 2023 May 8. doi: 10.1177/13623613231169546. [Epub ahead of print] PubMed PMID: 37151032.
42. Isaev DY, Sabatos-DeVito M, Di Martino JM, Carpenter K, Aiello R, Compton S, Davis N, Franz L, Sullivan C, Dawson G, Sapiro G. Computer Vision Analysis of Caregiver-Child Interactions in Children with Neurodevelopmental Disorders: A Preliminary Report. *J Autism Dev Disord*. 2023 Apr 27. doi: 10.1007/s10803-023-05973-0. Epub ahead of print. PMID: 37103659.
43. Guler J, Stewart KA, de Vries PJ, Seris N, Shabalala N, Franz L. Conducting caregiver focus groups on autism in the context of an international research collaboration: Logistical and methodological lessons learned in South Africa. *Autism*. 2023 Apr;27(3):751-761. doi: 10.1177/13623613221117012. Epub 2022 Aug 23. PMID: 35999698.

44. Krishnappa Babu PR, Aikat V, Di Martino JM, Chang Z, Perochon S, Espinosa S, Aiello R, L H Carpenter K, Compton S, Davis N, Eichner B, Flowers J, Franz L, Dawson G, Sapiro G. Blink rate and facial orientation reveal distinctive patterns of attentional engagement in autistic toddlers: a digital phenotyping approach. *Sci Rep.* 2023 May 3;13(1):7158. doi: 10.1038/s41598-023-34293-7. PMID: 37137954.
45. Yuan A, Sabatos-DeVito M, Bey AL, Major S, Carpenter KL, Franz L, Howard J, Vermeer S, Simmons R, Troy J, Dawson G. Automated movement tracking of young autistic children during free play is correlated with clinical features associated with autism. *Autism.* 2023 May 8;13623613231169546. doi: 10.1177/13623613231169546. Epub ahead of print. PMID: 37151032.
46. Rieder AD, Viljoen M, Seris N, Shabalala N, Ndlovu M, Turner EL, Simmons R, de Vries PJ, Franz L. Improving access to early intervention for autism: findings from a proof-of-principle cascaded task-sharing naturalistic developmental behavioural intervention in South Africa. *Child Adolesc Psychiatry Ment Health.* 2023 May 20;17(1):64. doi: 10.1186/s13034-023-00611-0. PMID: 37210513.
47. Coffman M, Di Martino JM, Aiello R, Carpenter KLH, Chang Z, Compton S, Eichner B, Espinosa S, Flowers J, Franz L, Perochon S, Krishnappa Babu PR, Sapiro G, Dawson G. Relationship between quantitative digital behavioral features and clinical profiles in young autistic children. *Autism Res.* 2023 Jul;16(7):1360-1374. doi: 10.1002/aur.2955. Epub 2023 Jun 1. PMID: 37259909.
48. Bey AL, Sabatos-DeVito M, Carpenter KLH, Franz L, Howard J, Vermeer S, Simmons R, Troy JD, Dawson G. Automated Video Tracking of Autistic Children's Movement During Caregiver-Child Interaction: An Exploratory Study. *J Autism Dev Disord.* 2023 Aug 29. doi: 10.1007/s10803-023-06107-2. Epub ahead of print. PMID: 37642871.
49. Perochon S, Di Martino JM, Carpenter KLH, Compton S, Davis N, Eichner B, Espinosa S, Franz L, Krishnappa Babu PR, Sapiro G, Dawson G. Early detection of autism using digital behavioral phenotyping. *Nat Med.* 2023 Oct 2. doi: 10.1038/s41591-023-02574-3. Epub ahead of print. PMID: 37783967.
50. Franz L, Viljoen M, Askew S, Brown M, Dawson G, Di Martino JM, Sapiro G, Sebolai K, Seris N, Shabalala N, Stahmer A, Turner EL, de Vries PJ. Autism Caregiver Coaching in Africa (ACACIA): Protocol for a type 1-hybrid effectiveness-implementation trial. *PLoS One.* 2024 Jan 12;19(1):e0291883. doi: 10.1371/journal.pone.0291883. PMID: 38215154.
51. Brandsen S, Chandrasekhar T, Franz L, Grapel J, Dawson G, Carlson D. Prevalence of bias against neurodivergence-related terms in artificial intelligence language models. *Autism Res.* 2024 Jan 29. doi: 10.1002/aur.3094. Epub ahead of print. PMID: 38284311.

Chapters in Books:

1. Franz L. and Thrall G (2009). Educational Review Manual in Psychiatry. 6th Edition. In K.R.R. Krishnan (Ed.). *Somatic Treatments*. Castle Connolly Graduate Medical Publishing.
2. Schlebusch L, Chambers NJ, Dawson-Squibb JJ, Harty M, Franz L and de Vries PJ. (2020). Challenges and opportunities of implementing early interventions for autism spectrum disorders in resource-limited settings: A South African example. In M. Hodes, S. Shur-Fen Gau, & P. J. de Vries (Eds.), *Starting at the beginning: Laying the foundation for lifelong mental health* (pp. 99–132). London: Elsevier, Academic Press.

Positions and Scientific Appointments

2024-Present	Interim Director Duke Center for Autism and Brain Development
2024-Present	Honorary Associate Professor, Department of Psychiatry, University of Cape Town
2023-Present	Associate Professor, Department of Psychiatry, Duke University
2023-Present	Associate Research Professor, Duke Global Health Institute
2022-Present	Associate Director Duke Center for Autism and Brain Development
2020-2023	UNICEF Tier 3 Autism Spectrum Disorder Intervention Technical Lead
2020-Present	ESDM Training Program Steering Committee
2019-Present	Duke Global Health Institute Cape Town Priority Partnership Lead
2017-2024	Honorary Senior Lecturer, Department of Psychiatry, University of Cape Town
2016-Present	Member of the Centre for Autism Research in Africa
2014-2023	Assistant Professor, Department of Psychiatry, Duke University
2014-2023	Assistant Research Professor, Duke Global Health Institute

Honors and Appointments

2024-Present Executive Committee and Mentor for Duke-NCCU T32 Interdisciplinary Postdoctoral Training Program in Child Psychiatry and Neurodevelopmental Conditions
2021 NIH Autism Center of Excellence National Annual Meeting Planning Committee
2019-Present Board Certified in Child and Adolescent Psychiatry, American Board of Psychiatry and Neurology
2017 Duke Leadership Development for Researchers (LEADER) Program
2017 Regional International Meeting for Autism Research Scientific Advisory Committee
2016-Present Board Certified in Psychiatry American Board of Psychiatry and Neurology
2015-Present American Academy of Child and Adolescent Psychiatry, Member
2015-Present International Society for Autism Research, Member
2014-Present Child and Adolescent Psychiatrist, Department of Psychiatry, Duke University
2014 Donald J. Cohen Fellowship Program recipient for IACAPAP 21st World Congress
2012 Zero to Three Leaders of the 21st Century Fellow
2011, 2014 Duke Department of Psychiatry and Behavioral Sciences Resident Research Award

Memberships:

American Academy of Child and Adolescent Psychiatry
International Society for Autism Research

Teaching Responsibilities Including Continuing Education (Selected):

1. Infant mental health training: Early psychopathology in very young children. June 2011. Charlotte North Carolina, Continuing Medical Education workshop
2. Introduction to child and adolescent psychiatry. First year medical students, Duke University Medical Center. 2010-2012
3. Introduction to psychopharmacology. Clinical psychology interns, Duke University Medical Center. 2010-2012
4. Global early childhood mental health. Global mental health lecture series. Undergraduate and graduate students, Duke Global Health Institute, Duke University Medical Center. 2012- 2014
5. Global early childhood mental health. Global mental health lecture series. Duke psychiatry residents, Duke University Medical Center. 2012-2014
6. Autism spectrum disorder assessment and intervention: A global perspective. Duke Psychiatry Residents and Child and Adolescent Psychiatry Fellows. 2015
7. Psychiatric comorbidity and treatment approaches for adults with autism spectrum disorder. Counseling and Psychological Services, Duke University. 2016
8. Introductory and advanced workshops on the Early Start Denver Model (ESDM). Duke University. December 2016
9. Early behavioral intervention for autism spectrum disorder. Psychology undergraduate students. Duke University. 2017
10. Implementation science seminars at the Center for Autism Research in Africa at the University of Cape Town, South Africa. January-June 2018.
11. Introduction to the Early Start Denver Model. Presented for East Carolina University. February 2019
12. Introductory and Advanced Workshops on the Early Start Denver Model (ESDM). Bloemfontein, South Africa. September 2019
13. Approach to caregiver coaching. Durham Child Development Services Agency. October 2019
14. Early intervention strategies for autism spectrum disorder 4-part live webinar series. Wake AHEC. September-November 2020
15. Global health of neurodevelopmental disorders. Duke Psychiatry Residents. June 2021
16. Healthcare disparities in autism. Duke Child and Adolescent Psychiatry Fellows. November 2021
17. Racial, ethnic, and socioeconomic disparities in autism in the US. Duke Child and Adolescent Psychiatry Fellows. 2021-Present

Ongoing Research Support:**Administrative Supplement for Tackling Acquisition of Language in Kids (TALK) Initiative (NIH/NICHHD)**

09/2023-08/2024

Co-PI: Lauren Franz**Title:** Administrative Supplement Leveraging routinely collected health data to improve understanding of language development in children identified as late talkers

This supplement (to 2P50-HD093074-06) leverages routinely collected health data to improve understanding of language development in children identified as late talkers, identifying factors that predict differential developmental trajectories across two groups of late talking children: (1) late talkers who have no co-occurring neurodevelopmental conditions, and (2) late talkers with autism.

1R01-MH127573-01A1 (NIMH/Fogarty)

08/2022-07/2027

PI: Lauren Franz**Title:** Autism Caregiver Coaching in Africa

The main goal of the study in South Africa is to test whether a non-specialist caregiver coaching early autism intervention delivered within an existing system of care, can improve child developmental outcomes. This study will provide critical information to inform the scale-up of caregiver coaching Africa and other low-resource, multicultural communities.

2P50-HD093074-06 (NIH/NICHHD)

08/2018-09/2027

Director: Dawson**PI:** Lauren Franz**Title:** Dissemination and Outreach Core

The goal of the Dissemination and Outreach Core is to support the Duke Autism Center of Excellence by disseminating research findings to and ensuring robust bi-directional connections with the scientific, provider, and autism communities, and by supporting the careers of students, postdoctoral fellows, and junior and established investigators who are new to the field of autism research, particularly those from underrepresented groups.

2P50-HD093074-06 (NIH/NICHHD)

10/2022-09/2027

Director: Dawson**Co-I:** Lauren Franz**Title:** A digital health approach to early identification and outcome monitoring in autism

The goal of the Project is to evaluate novel digital behavioral assessment tools based on computer vision analysis and machine learning that can be implemented on widely available devices in real-world settings to improve the accuracy of autism screening and enable longitudinal monitoring of children's behavior and development.

2P50-HD093074-06 (NIH/NICHHD)

10/2022-09/2027

Director: Dawson**Co-I:** Lauren Franz**Title:** Leveraging routinely collected health data to improve early identification of autism and co-occurring conditions

The goal of the Project is to use health data collected during routine care to develop a prediction model for autism screening at 18 months of age and to use the model to design a clinical decision support tool for primary care providers that includes actionable guidance regarding referrals and linkage to services that, in the future, can be integrated into pediatric primary care. The project will leverage robust data on early health encounters to describe the nature and prevalence of patterns of medical conditions during early life and explore whether early medical conditions during early life are associated with higher rates of psychiatric conditions by age 6.

CryoCell International

07/2022-06/2024

Co-PI: Lauren Franz**Extension for IMPACT Phase 2 Clinical Trial**

The purpose of this double blinded Phase II study is to determine the efficacy of human umbilical cord tissue-derived mesenchymal stromal cells (hCT-MSc), administered in 4-11 year old children with a diagnosis of

autism spectrum disorder. Qualifying subjects undergo neuropsychological evaluation, EEG testing, eye tracking, CVA assessments, and infusion of study product. Subjects are randomized to the order in which they receive hCT-MSC and placebo infusions.

Completed Research Support

P50HD093074 (NIH/NICHD)

08/2018-07/2023

Director: Dawson

PI: Lauren Franz

Title: A + Treatment Study

This study will evaluate the feasibility of adapted ESDM-informed caregiver coaching delivered remotely to autistic children with co-occurring ADHD, who are between 36 and <132 months of age. The acceptability, appropriateness, feasibility and fidelity of the remotely delivered intervention will be evaluated using mixed methods and an implementation science approach. Developing and testing feasible telehealth interventions for autistic children with co-occurring ADHD will both improve representation of participants in autism research and increase community service access.

R21MH120696 (NIH/NIMH)

08/2019-12/2022

PI: Lauren Franz

Title: Tailoring Treatment Targets for Early Intervention for Autism in Africa

Naturalistic Developmental Behavioral Interventions (NDBIs), an evidence-based early autism intervention approach, target key behaviors that help language development. While efforts to use NDBIs are increasing worldwide, important gaps in our knowledge remain on whether the behaviors targeted by NDBIs are cross-culturally valid. This study in South Africa, a multi-cultural setting, will provide critical information on NDBI treatment targets and a novel digital outcome measure of treatment response.

Marcus Foundation

05/2019-06/2022

Co-I: Lauren Franz

The goal of this study “Umbilical Cord Blood Therapy for Improving Outcomes in Autism, Stroke, and Other Brain Related Conditions” is to conduct preclinical studies and clinical trials to assess the efficacy of umbilical cord blood therapies for improving clinical outcomes for these conditions.

K01 MH104370 (NIH/NIMH)

07/2015-07/2021

PI: Lauren Franz

Primary mentor: Geraldine Dawson

This NIMH-funded Career Development Award supported training in evidence-based early autism intervention and implementation science. The Career Development Award research project supported the systematic adaptation of a caregiver coaching early autism intervention for the South African context, designed to have coaching delivered by non-specialist Early Childhood Development practitioners employed by the Education Department.

R25 TW009337

2013-2014

PI: Lauren Franz

NIH/Fogarty International Center

The KwaZulu-Natal Autism study, focused on the largely isiZulu but multi-cultural community in the province of KwaZulu-Natal, South Africa. The primary purpose of the study was to explore how best to identify isiZulu children are autistic.