**Tairmae Kangarloo**

Senior Manager

Digital Strategy Group

Worldwide Research and Development

Takeda

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**Education**

2023 Boston University School of Medicine Ph.D. Behavioral Neuroscience

2011 Hobart and William Smith Colleges B.S. Chemistry

**Experience**

2021 – present Senior Manager, Digital Strategy Group, Takeda

2018 – 2021 Clinical Scientist, Digital and Quantitative Medicine, Biogen

2016 – 2018 Senior Clinical Trial Specialist, Digital Medicine, Pfizer

2015-2016 Senior Research Coordinator, Harvard School of Public Health

 PI: Russ Hauser, MD

2012 – 2015 Clinical Research Coordinator II, Reproductive Endocrine Unit,

 Massachusetts General Hospital

 PI: Natalie Shaw, MD

**Research Interests**

Mobile and digital assessments, cognition, neurodegenerative disease, serious mental illness

**Professional Affiliations**

Society for Neuroscience

Movement Disorder Society

Society for Research in Psychopathology

Schizophrenia International Research Society

**Awards and Honors**

2020: CEO Award, Biogen

**Ad-hoc Reviewing**

Digital Biomarkers – Journal of Parkinson’s Disease – Journal of Clinical and Experimental Neuropsychology – International Journal of Methods in Psychiatric Research – Nature Scientific Reports – Nature Digital Medicine

**Manuscripts Published or In Press**

Hill D, Stephenson D, Brayanov J, Claes K, Badawy R, Sardar S, Fisher K, Lee S, Bannon A, Roussos G, **Kangarloo T**, Terebaite V, Muller M, Bhatnagar R, Adams J, Dorsey ER, Cosman J. Metadata Framework to Support Deployment of Digital Health Technologies in Clinical Trials in Parkinson’s Disease. Sensors. In press

Ortega MT, Carlson L, McGrath JA, **Kangarloo T**, Adams JM, Sluss PM, Lambert-Messerlian G, Shaw ND. AMH is Higher Across the Menstrual Cycle in Early Postmenarchal Girls than in Ovulatory Women. J Clin Endocrinol Metab. 2020 Apr 1;105(4):e1762–71. doi: 10.1210/clinem/dgaa059. PMID: 32016427; PMCID: PMC7082083.

Erb MK, Karlin DR, Ho BK, Thomas KC, Parisi F, Vergara-Diaz GP, Daneault JF, Wacnik PW, Zhang H, **Kangarloo T**, Demanuele C, Brooks CR, Detheridge CN, Shaafi Kabiri N, Bhangu JS, Bonato P. mHealth and wearable technology should replace motor diaries to track motor fluctuations in Parkinson's disease. NPJ Digit Med. 2020 Jan 17;3:6. doi: 10.1038/s41746-019-0214-x. PMID: 31970291; PMCID: PMC6969057.

Psaltos D, Chappie K, Karahanoglu FI, Chasse R, Demanuele C, Kelekar A, Zhang H, Marquez V, **Kangarloo T**, Patel S, Czech M, Caouette D, Cai X. Multimodal Wearable Sensors to Measure Gait and Voice. Digit Biomark. 2019 Oct 29;3(3):133-144. doi: 10.1159/000503282. PMID: 32095772; PMCID: PMC7011748.

Carlson L, Flores Poccia V, Sun BZ, Mosley B, Kirste I, Rice A, Sridhar R, **Kangarloo T**, Vesper HW, Duke L, Botelho JC, Filie AC, Adams JM, Shaw ND. Early breast development in overweight girls: does estrogen made by adipose tissue play a role? Int J Obes (Lond). 2019 Oct;43(10):1978-1987. doi: 10.1038/s41366-019-0446-5. Epub 2019 Aug 28. PMID: 31462689; PMCID: PMC6774855.

Sun BZ, **Kangarloo T**, Adams JM, Sluss P, Chandler DW, Zava DT, McGrath JA, Umbach DM, Shaw ND. The Relationship Between Progesterone, Sleep, and LH and FSH Secretory Dynamics in Early Postmenarchal Girls. J Clin Endocrinol Metab. 2019 Jun 1;104(6):2184-2194. doi: 10.1210/jc.2018-02400. PMID: 30649404; PMCID: PMC6482022.

Sun BZ, **Kangarloo T**, Adams JM, Sluss PM, Welt CK, Chandler DW, Zava DT, McGrath JA, Umbach DM, Hall JE, Shaw ND. Healthy Post-Menarchal Adolescent Girls Demonstrate Multi-Level Reproductive Axis Immaturity. J Clin Endocrinol Metab. 2019 Feb 1;104(2):613-623. doi: 10.1210/jc.2018-00595. PMID: 30289507; PMCID: PMC6325170.

Topor LS, Bowerman K, Machan JT, Gilbert CL, **Kangarloo T**, Shaw ND. Central precocious puberty in Boston boys: A 10-year single center experience. PLoS One. 2018 Jun 27;13(6):e0199019. doi: 10.1371/journal.pone.0199019. PMID: 29949619; PMCID: PMC6021063.

McHill AW, Klerman EB, Slater B, **Kangarloo T**, Mankowski PW, Shaw ND. The Relationship Between Estrogen and the Decline in Delta Power During Adolescence. Sleep. 2017 Mar 1;40(3):zsx008. doi: 10.1093/sleep/zsx008. PMID: 28364433; PMCID: PMC5806564.

Shaw ND, McHill AW, Schiavon M, **Kangarloo T**, Mankowski PW, Cobelli C, Klerman EB, Hall JE. Effect of Slow Wave Sleep Disruption on Metabolic Parameters in Adolescents. Sleep. 2016 Aug 1;39(8):1591-9. doi: 10.5665/sleep.6028. PMID: 27166229; PMCID: PMC4945319.

**Available Manuscripts in Preparation**

**Kangarloo, T**., Mote, J., Abplanalp, S.,James, P., Gard, D., & Fulford, D. Smartphone Sensing of Greenspace Exposure and Affect in People with and without Schizophrenia.

Adams, J., **Kangarloo, T**., Herrero, T. R., Auinger, P., Alexander, R., Rubens, R., ... & Dorsey, ER. A Multicenter Study Using a Smartwatch and Other Digital Tools to Assess Key Features of Parkinson’s Disease: Baseline Results from the WATCH-PD Study.

**Kangarloo, T.**, Latzman, R., Cosman, J., Adams, J., Anderson, D., Severson, J., Edgerton, J., & Dorsey, E.R. Participant Burden When Incorporating Digital Tools in Clinical Trials: Insights from WATCH-PD

**Conference Presentations**

**Kangarloo, T**., Mote, J., Gill, K.,Gard, D., Mueser, K., & Fulford, D. (2022, April). Active and Passive Smartphone Assessment of Greenspace Exposure and Daily Social Interactions in People with Schizophrenia. Poster at *Schizophrenia International Research Society.*

**Kangarloo, T**., Mote, J., Abplanalp, S.,James, P., Gard, D., & Fulford, D. (2021, November). How does nature improve well-being in daily life? Smartphone sensing of associations between green space exposure and affect in people with and without schizophrenia. Poster at *Society for Research in Pathology Annual Meeting.*

Adams, J., Dorsey, E., Herrero, T. R., Auinger, P., Alexander, R., Rubens, R., ... & **Kangarloo, T**. (2021, September). WATCH-PD: Wearable Assessments in the Clinic and Home in Parkinson's Disease: Baseline Analyses. *Poster at* *Movement Disorders Society Annual Meeting.*

Adams, J. L., Dorsey, E. R., Steinman, A., **Kangarloo, T**., Alexander, R., Tracey, B., ... & Cosman, J. (2020, September). WATCH-PD: Wearable Assessments in the Clinic and Home in Parkinson's Disease: Study Design and Update. *Poster at* *Movement Disorders Society Annual Meeting.*

**Kangarloo,T**., Gupta, A., Paganoni, S., Chew, S., Collins, E., Steinman, A., Severson, J., Berry, J., Cosman, J. (October, 2019). A Mobile Platform to Assess Cognition in Amyotrophic Lateral Sclerosis. *Poster at Society for Neuroscience Annual Meeting.*

**Kangarloo, T**., Steinman, A., Severson, J., Cosman, J. (2019, April). A Mobile Platform for Assessing Motor and Cognitive Aspects of Parkinson’s Disease. *Poster at* Conference on *Alzheimer’s and Parkinson’s Disease Annual Meeting.*

Cosman, J., Steinman, A., **Kangarloo, T**., Adams, J., Dorsey, E.R. (2019, April). WATCH-PD: Wearable Assessments in the Clinic and Home in Parkinson’s Disease. *Poster at* Conference on *Alzheimer’s and Parkinson’s Disease Annual Meeting.*

K. Erb, J. Daneault, S. Amato, P. Bergethon, C. Demanuele, **T. Kangarloo**, S. Patel, V. Ramos, D. Volfson, P. Wacnik, H. Zhang, D. Karlin, H. Huggins, L. Soll, G. Costante, G. Vergara-Diaz, F. Parisi, J. Banghu, C. Brooks, C. Dethridge, A. Abrami, E. Bilal, V. Caravagio, S. Heisig, R. Norel, E. Pissadaki, J. Rice, B. Ho, K. Thomas, P. Bonato. (2018, October). The BlueSky Project: monitoring motor and nonmotor characteristics of people with Parkinson’s disease in the laboratory, a simulated apartment, and home and community settings. *Poster at* *Movement Disorders Society Annual Meeting.*

Shaw, N. D., Butler, J. P., **Kangarloo, T**., & Hall, J. E. (2014, June). Deep Sleep Disruption Does Not Diminish Pulsatile LH Secretion in Pubertal Children. *Poster and Flash Talk* *Endocrine Society Annual Meeting*.