Characterizing sleep-wake activity patterns across the spectrum of AD/ADRD

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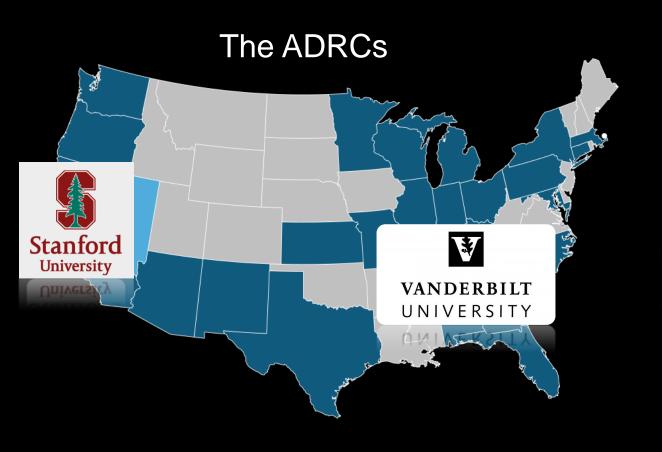
Stanford University



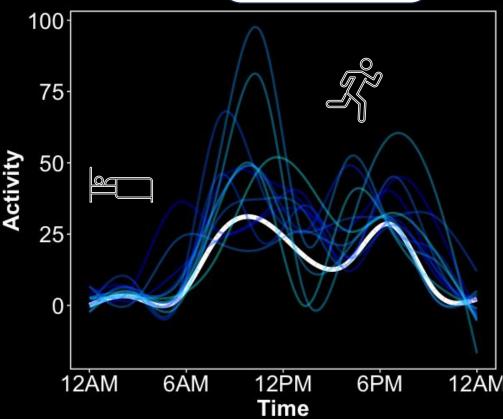


Our Aim: develop a platform to collect and share 24hr activity

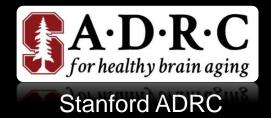
data across the NACC/ADRC network







Team expertise in actigraphy and multimodal harmonization





Joseph Winer, PhD (PI)
Postdoctoral Fellow
Sleep & 24hr in ADRD
ADRC REC Scholar



Jamie Zeitzer, PhD (Co-I)
Professor
Sleep & Circadian Biology



Elizabeth Mormino, PhD Assistant Professor ADRC Imaging Core Lead CLARITI PI



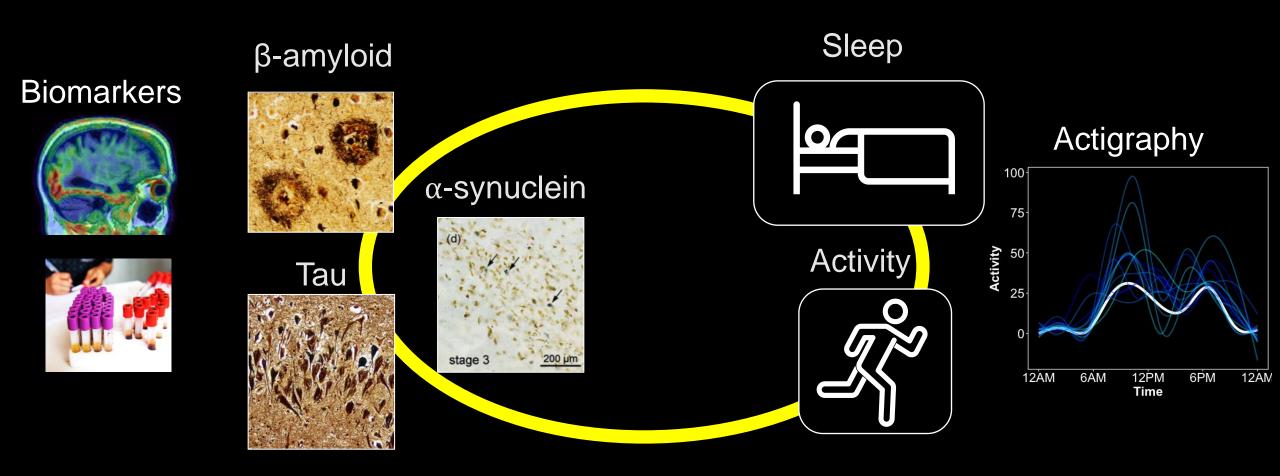


Kelsie Full, PhD (Co-I)
Assistant Professor
Sleep, Physical Activity Epidemiology
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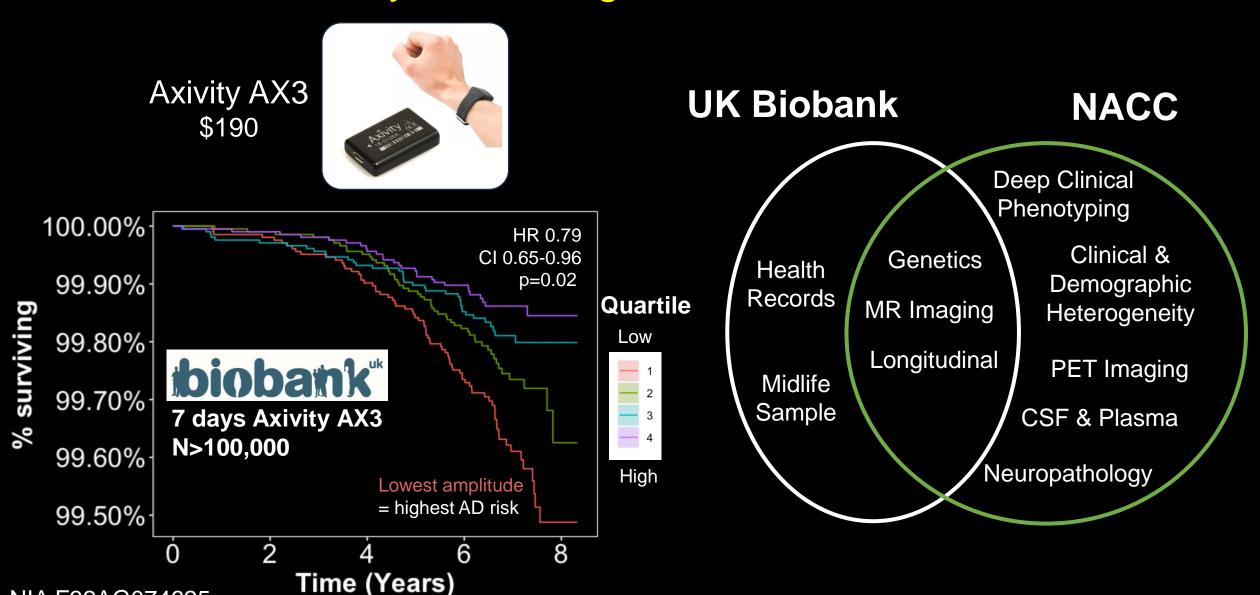
Timothy Hohman, PhD
Professor
ADRC Biomarker Core Lead
ADSP-PHC PI

Real life sleep and physical activity represents high impact science



Digital biomarkers for early detection and disease specificity

Passive 24hr activity monitoring is low burden and scalable



NIA F32AG074625 Winer et al. (2024) *Alz Res Ther*

Our success at Stanford ADRC demonstrates feasiblility

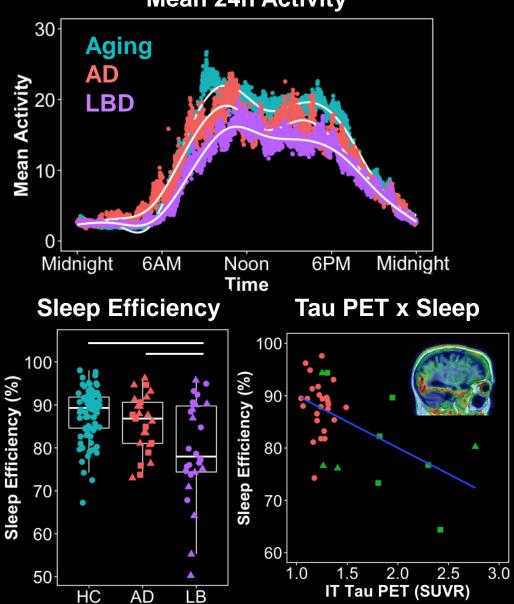




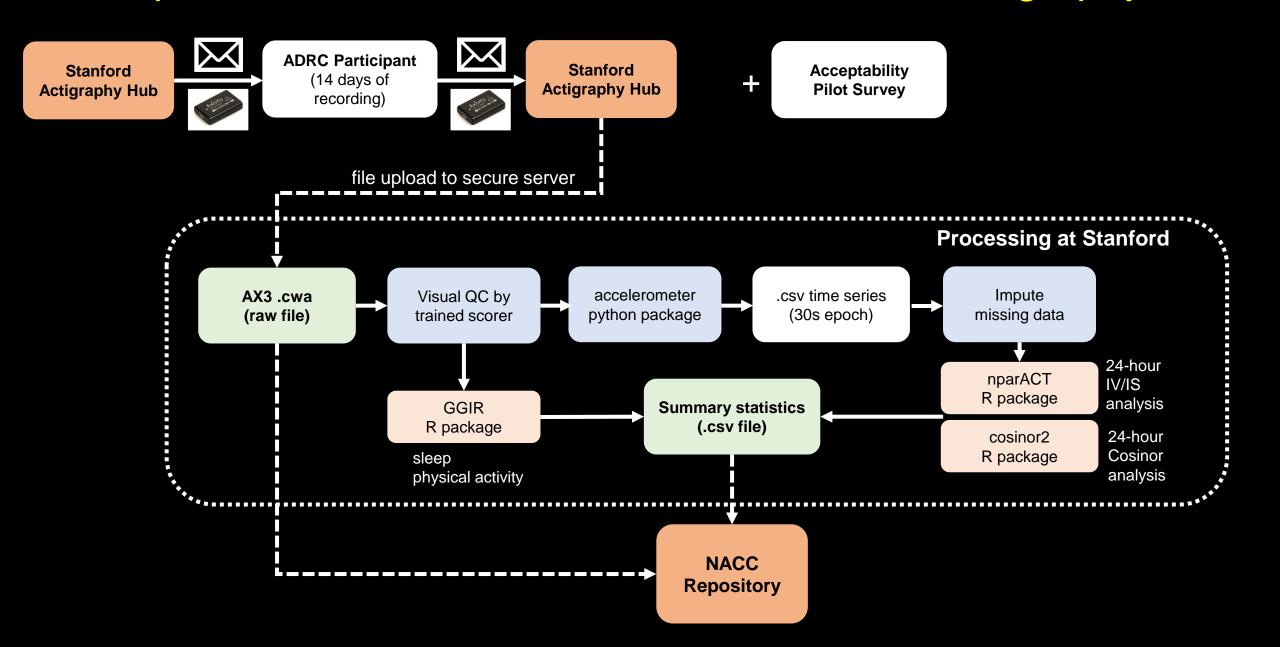
Since Fall 2021, n=191 individuals

ļ .	Aging	disease	disease	ADRD
Total N (%)	105	37	40	9
	(55)	(19)	(21)	(5)





Develop infrastructure for standardized multi-site actigraphy data



Real world sleep and physical activity data will be a valuable resource towards digital biomarkers for ADRD

