



NEUROIMAGING AND BRAIN AGING WORKSHOP

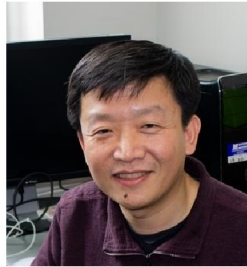


WEDNESDAY DECEMBER 15, 2021;
11AM ET—5:30PM ET / 8AM PT—2:30 PT

WITH PRESENTATIONS BY:



F. Vankee Lin, PhD
Stanford University



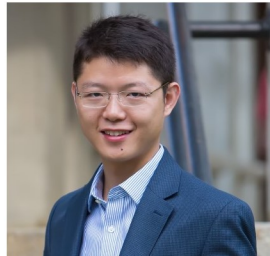
Kuan Hong Wang, PhD
University of Rochester



Jianhui Zhong, PhD
University of Rochester



Timothy Baran, PhD
University of Rochester



Zhengwu Zhang, PhD
UNC Chapel Hill



Ben Risk, PhD
Emory University



Adam Turnbull, PhD
University of Rochester



Ehsan Adeli, PhD
Stanford University



Andy Anderson, PhD
University of Rochester



Beth Mormino, PhD
Stanford University



Gregory Samanez-Larkin, PhD
Duke University



Tim Murphy, PhD
University of British Columbia



Ju Lu, PhD
UC Santa Cruz



Yi Zuo, PhD
UC Santa Cruz



Yogita Chudasama, PhD
NIMH



Janine Simmons, MD, PhD
NIA



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OVERVIEW: The objective of this workshop is to introduce the principles and applications of neuroimaging techniques for the study of brain aging. This workshop is aimed towards students, post-doctoral fellows, and faculty who are new to the field and who are interested in an orientation on neuroimaging and brain aging research. This workshop is funded through the NEW Brain Aging Center (NIH U24 AG072701).

MEETING LINK: <https://urmc.zoom.us/j/99012312750> (Zoom meeting ID: 990 1231 2750)

SCHEDULE: Please register with our network here: <https://www.newbrainaging.org/contact>

Introduction		
11-11:10am ET	Drs. Vankee Lin & Kuan Hong Wang	Workshop objective and plan
Overview of Cross-species Brain Imaging		
11:10-11:35am ET	Dr. Jianhui Zhong	Imaging physics
Human Brain Imaging		
11:35-12pm ET	Dr. Timothy Baran	PET, PET-MRI co-registration
12-12:25pm ET	Dr. Zhengwu Zhang	DTI, DTI-fMRI coupling
12:25-12:50pm ET	Dr. Ben Risk	fMRI
10 minutes	Break 1	
1-1:25pm ET	Dr. Adam Turnbull	Low dimension network analytical methods
1:25-1:50pm ET	Dr. Ehsan Adeli	Imaging data harmonization, novel ML/DL method
1:50-2:15pm ET	Dr. Andy Anderson	Neural decoding and mental representation
2:15-2:40pm ET	Dr. Beth Mormino	Multi-modality imaging as AD biomarkers
2:40-3pm ET	Dr. Vankee Lin	Intervention and brain mechanisms
10 minutes	Break 2	
3:10-3:30pm ET	Dr. Greg Samanez-Larkin	Discussion of brain imaging studies of emotion and aging in humans
Animal Brain Imaging		
3:30-3:55pm ET	Dr. Tim Murphy	Mesoscopic Imaging of cortical activity
3:55-4:20pm ET	Drs. Ju Lu & Yi Zuo	Two-photon microscopic imaging of structural and functional dynamics
4:20-4:45pm ET	Dr. Kuan Hong Wang	Miniscope imaging; circuit manipulation in behaving animals
4:45-5:10pm ET	Dr. Yogita Chudasama	Emotional behavior and brain mechanisms in animals
5:10-5:30pm ET	Dr. Janine Simmons	Wrap up discussion on cross-species neuroimaging work of brain aging and emotion: challenges and opportunities