

I studied Psychology in Turkey and then started Neuroscience graduate program at Western University. My research focuses on using ultra-high field MRI to image rodent brains and understanding rodent cognition. We are investigating functional brain networks in Alzheimer Disease to find early biomarkers for the prevention and treatment of the disease. We are using genetically developed mouse models with humanized genes that results in amyloid beta plaques in mouse brain. By using this mouse model, we are able to identify disruptions in functional networks in certain parts of the brain before cognitive symptoms occur. Since current treatments can't target the cognitive deficits in the disease, such finding would be critical for early diagnosis and treatment of the Alzheimer Disease.

-----Esmi Unaran