"Translating Thoughts to Speech"

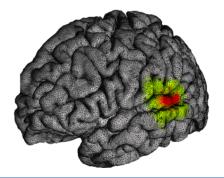
Dr. Edward Chang



Dr. Edward Chang is a neurosurgeon at UC San Francisco specializing in the treatment of intractable epilepsy, trigeminal neuralgia, and movement disorders. His surgical practice includes advanced brain mapping to preserve crucial areas for speech. His scientific research focuses upon the human brain mechanisms for speech, emotions and cognition. He co-directs the Center for Neural Engineering & Prostheses at UC Berkeley, which brings together engineering, neuroscience, neurology and neurosurgery.

Some recent publications

•	Real-time decoding of question-and-answer speech dialogue using human cortical activity	Nature comm	2019
•	The Encoding of Speech Sounds in the Superior Temporal Gyrus	Neuron	2019
•	Speech Synthesis from Neural Decoding of Spoken Sentences	Nature	2019
•	An Amygdala-Hippocampus Subnetwork that Encodes Variation in Human Mood	Cell	2018
•	Intonational speech prosody encoding in the human auditory cortex	Science	2017
•	Towards large-Scale, human-Based, mesoscopic neurotechnologies	Neuron	2015





Hosted by Dr. Maxime Baud, University Department of Neurology

October 4 2019 16h00-17h15 Auditorium SITEM-Insel*