



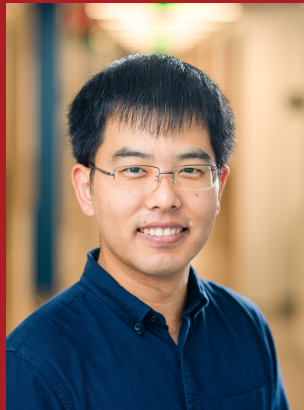
THE UNIVERSITY OF ARIZONA
COLLEGE OF MEDICINE TUCSON

Physiology

Seminars in Translational & Advanced Research (STAR)

Friday, September 11
Arizona Health Sciences Center
Room 8403
11:00am - 12:00pm

<https://arizona.zoom.us/j/85062222452>



Chen Ran, PhD

*Assistant Professor, The Scripps
Research Institute*

Host: Maya Kaelberer

"The coding and circuitry of interoception"

Chen Ran is an assistant professor at The Scripps Research Institute in San Diego, California. Ran received his Bachelor of Science in biology from Peking University, his Doctor of Philosophy in biology from Leland Stanford Junior University, and completed his postdoctoral training at Harvard Medical School. Ran previously developed an in vivo two-photon mouse brainstem calcium imaging preparation to record the activity of large numbers of neurons in the mouse brainstem that respond to visceral organ stimuli, which enabled the characterization of the coding of internal senses in the brain.

As an independent investigator at The Scripps Research Institute, Ran continues to use imaging and recording approaches to systematically reveal the transformation of neural codes from the medulla to the pons, thalamus, hypothalamus, and cortex using neuronal population recordings. Ran and his team aim to understand how the coding of cognitive features of satiety, hunger, thirst, nausea, hypoxia, and visceral pain is constructed from the coding of basic physical variables like force, chemicals, and osmolarity along the ascending interoceptive circuitry.