Stanford

Keren Haroush

Assistant Professor of Neurobiology

Bio

ACADEMIC APPOINTMENTS

- Assistant Professor, Neurobiology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Sloan Research Fellow, Alfred P. Sloan Foundation (2019 - 2021)
- NARSAD Young Investigator Award, Brain and Behavior Foundation (2017 - 2019)
- SFARI Bridge to Independence Award, Simon's Foundation (2016 - 2022)
- Peter and Patricia Gruber International Research Award, Society for Neuroscience and The Gruber Foundation (2015)

PROFESSIONAL EDUCATION

- Ph.D., The Hebrew University, Jerusalem, Israel , Neurobiology (2011)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our laboratory studies the mechanisms by which highly complex behaviors are mediated at the neuronal level, mainly focusing on the example of dynamic social interactions and the neural circuits that drive them. From dyadic interactions to group dynamics and collective decision making, the lab seeks a mechanistic understanding for the fundamental building blocks of societies, such as cooperation, empathy, fairness and reciprocity.

The computations underlying social interactions are highly distributed across many brain areas. Our lab is interested in which specific areas are involved in a particular function, why such an architecture arises and how activity in multiple networks is coordinated. Our goal is to develop a roadmap of the social brain and use it for guiding restorative treatments for conditions in which social behavior is impaired, such as Autism Spectrum Disorders and Schizophrenia.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Lin Zhong

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)
- Laboratory Animal Science (Masters Program)

- Medicine (Masters Program)
- Neurophysiology (Fellowship Program)
- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Dorsolateral prefrontal neurons mediate subjective decisions and their variation in humans** *NATURE NEUROSCIENCE*
  Jamali, M., Grannan, B., Haroush, K., Moses, Z. B., Eskandar, E. N., Herrington, T., Patel, S., Williams, Z. M.
  2019; 22 (6): 1010-+
- **Dorsolateral prefrontal neurons mediate subjective decisions and their variation in humans.** *Nature neuroscience*
  Jamali, M., Grannan, B., Haroush, K., Moses, Z. B., Eskandar, E. N., Herrington, T., Patel, S., Williams, Z. M.
  2019
- **Neuronal Prediction of Opponent's Behavior during Cooperative Social Interchange in Primates** *CELL*
  Haroush, K., Williams, Z. M.
  2015; 160 (6): 1233-1245
- **Hearing While Blinking: Multisensory Attentional Blink Revisited** *JOURNAL OF NEUROSCIENCE*
  Haroush, K., Deouell, L. Y., Hochstein, S.
  2011; 31 (3): 922-927
- **Momentary Fluctuations in Allocation of Attention: Cross-modal Effects of Visual Task Load on Auditory Discrimination** *JOURNAL OF COGNITIVE NEUROSCIENCE*
  Haroush, K., Hochstein, S., Deouell, L. Y.
  2010; 22 (7): 1440-1451