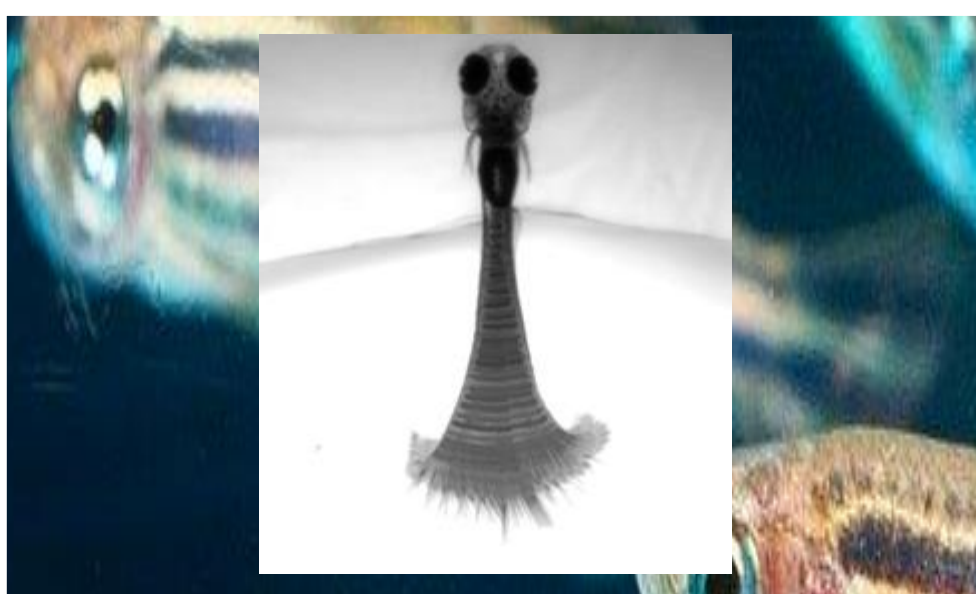


Binocular interactions and stimulus competition in the zebrafish brain

Date 19-Nov-2021

Time 16:00 (UTC+8)

Venue Zoom & 3N-01



Although vision is probably the best-studied sensory system, many fundamental questions about visual function remain unanswered. My lab uses zebrafish as a model system to address some of these questions in a relatively simple brain. In addition to being genetically tractable, the zebrafish brain is optically accessible during the larval stage, allowing us to use functional imaging to record activity in virtually all of its neurons. Zebrafish larvae are also highly visual, using visual input for several important innate behaviors including escape from looming objects and hunting prey. In this talk I will present some of my lab's recent results using these tools to study binocular integration and stimulus competition in the zebrafish brain.



Dr. Julie Semmelhack is an Assistant Professor in the Division of Life Science and Department of Chemical and Biological Engineering at HKUST. She got her PhD at the University of California, San Diego, working on fly olfaction, then did a postdoc working on zebrafish vision at the Max Planck Institute for Neurobiology. She joined HKUST in 2017 to start her lab working on neural circuits for visual behaviors in zebrafish.