The ability of animals to sense and navigate complex environments is unrivaled by even the most sophisticated robots. Nowhere is this more challenging to understand than in the three-dimensional environment of water, where animals are unconstrained by gravity with appendages and bodies at the mercy of the complex fluid-structure interactions of turbulent flow. Fishes, which comprise over half of all living vertebrates, have an exquisite control mechanism for negotiating turbulence. I will describe advances my lab has made in understanding how fish swim in unsteady flows, and how by studying nature’s designs we can reveal insights into some of the biggest challenges in engineering and robotics.

Tuesday, August 7, 2018
Kohn Hall, UCSB
5:30 Courtyard Reception
6:15 - 7:15 Presentation and Discussion

Attendance by Reservation Only
RSVP by Monday, August 6:
Online: https://www.kitp.ucsb.edu/chalk-talk-rsvp
Phone: (805) 893-6350 or friends@kitp.ucsb.edu

Lot 10 parking
As you enter campus from Hwy 217, turn right onto Mesa Rd, merge into the left lane, and at the stop light turn left into Parking Structure 10. Park, buy a permit from the dispenser (near the elevator and stairs), and display the permit on your dashboard. The KITP is right next door to the parking structure.