



Zenith

# INTERNATIONAL PHD PROGRAM IN NEUROSCIENCE

FRIDAY, 7 MAY 2021  
AT 5:00 PM (CET)

**STEFAN SCHUSTER**  
UNIVERSITY OF BAYREUTH  
GERMANY



ZENITH SEMINARS

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## FROM COMPLEX HIGH-SPEED DECISIONS TO IDENTIFIED NEURONS

Archerfish have one of nature's most remarkable hunting techniques: they down aerial prey with a precisely aimed jet of water fired over considerable distance. Among the many fascinating aspects of their hunting is an extremely rapid and yet intriguingly complex decision that these fish need to make to actually retrieve their prey. I will introduce some of the most fascinating aspects of these unusual high-speed decisions and then describe how these led us to variety of questions on the role of the giant Mauthner cell.

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After studying physics, mathematics, and biology at the University of Tübingen (Germany) and Stony Brook (USA), Stefan Schuster completed his PhD in Biology working with *Drosophila* at the University of Tübingen. After, he worked as a Research Assistant at the University of Freiburg in the Dept. of Animal Physiology. He then joined the Institute of Zoology II at the University of Erlangen-Nuremberg. From 2007-2009 he was awarded a Heisenberg-Scholarship of the German Research Foundation (DFG). Since 2009 he is Chair of Animal Physiology at the University of Bayreuth.

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