



## Life Sciences Seminar

# Navigation in rivers and streams: how do larval zebrafish hold position in moving water?

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Host: Clara Becker (Sweeney Group)

Holding position in moving water currents is, similar to gaze stabilization in vision, an important skill for any aquatic animal. Here we describe a series of experiments that illustrate what algorithms larval zebrafish implement to solve this important problem in various contexts, and we further show results from experiments that strive to dissect the underlying neural circuit structure through which these algorithms are implemented. We find that the critical computations include spatial and temporal integration of visual and somatosensory signals across distinctly different spatial and temporal scales and we made first inroads in generating explicit biophysically realistic circuit models that are testable with the rapidly expanding technological toolset that the larval zebrafish affords. Join Zoom Meeting: <https://istaustria.zoom.us/j/93863516836?pwd=c2pDVXJvcTh1V0NFVm4zamdjcE1iQT09> Meeting ID: 938 6351 6836 Passcode: 538453

**Tuesday, December 14, 2021 01:30pm - 03:00pm**

Mondi Seminar Room 2, Central Building and Online



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.