



**SFB 1315**

Mechanisms and Disturbances in Memory Consolidation:  
From synapses to systems

Thursday

**FEB 16, 2023**  
**2:00 pm CET**

BCCN Lecture Hall

Philippstr. 13, Berlin

ZOOM ID: 7754910236

SFB1315.ifb@hu-berlin.de

**SFB 1315 LECTURE SERIES 2023**

# HOW MICE SEE THE WORLD

**SPENCER L SMITH**

Associate Professor  
Department of Electrical & Computer Engineering  
College of Engineering  
UC Santa Barbara



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Forschungsgemeinschaft  
German Research Foundation



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## HOW MICE SEE THE WORLD

Vision provides a rich sense of the world around us, our place in it, and how we can interact with it. Human-kind has made rapid advances in machines that can process visual information. However, in some tasks, even mice outperform our best machines. Thus, there are important computational principles embodied in animal brains for vision.

**We are using specialized behavior systems and large-scale calcium imaging to determine the principles of visual processing in mouse brains. I will discuss recent neurobiological results and share some open-source optics we have developed for these studies.**

### About the Speaker

Spencer L Smith is Associate Professor of Electrical and Computer Engineering at the University of California, Santa Barbara. He is Chair of the Neuroscience Graduate Program and Advisory Board Member of the Neuroscience Research Institute.

This invited talk is jointly hosted by AG Judkewitz, Mikhaylova (A10) and Matthew Larkum (A04, A10). Matthew Larkum will introduce and moderate the talk.

### Certificate of attendance:

Please contact team assistant  
serenella.brinati.1(at)hu-berlin.de



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