

## The Bridge from Mathematical to Digital, and Back

*mercredi 19 avril 2023 12:00 (30 minutes)*

Stephane Mallat has, across 30 years, evolved continuously as the fields of computational harmonic analysis, signal processing, and image processing have evolved. Starting out writing papers in Math journals like Trans Amer Math Soc, he recently has written papers for the leading conferences in empirical machine learning.

The transition that Stéphane has made is something we should all learn from, but I'm afraid many of us will not be able to understand or emulate it. Indeed today there are vast differences in mindset and worldview between the mathematical and the digital communities.

They literally do not understand each other. I will describe the differences in mindsets and worldviews and provide a few travel tips for those people who would like to go on the bridge from mathematical to digital, or vice versa.

(related to a manuscript under preparation with Matan Gavish, Hebrew University)

**Orateur:** Prof. DONOHO, Dave (Stanford)