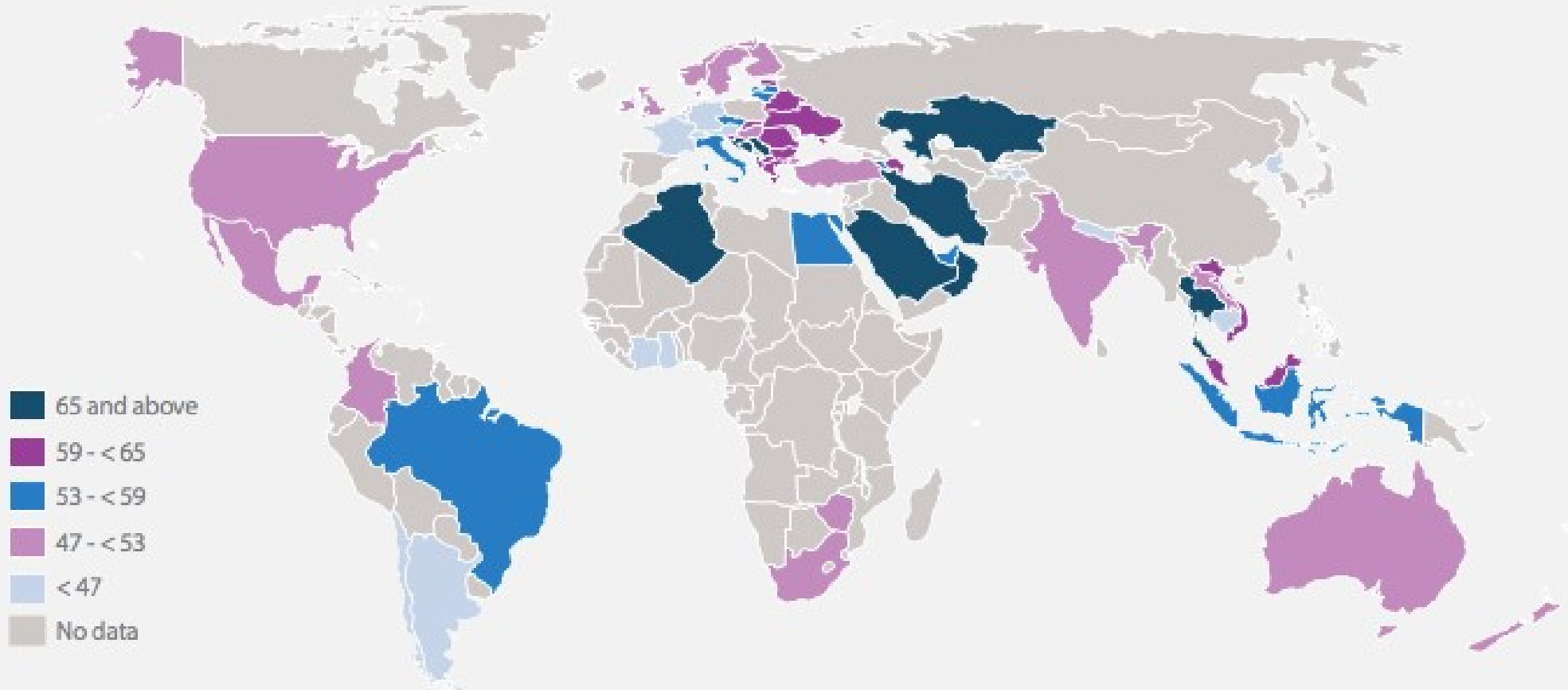


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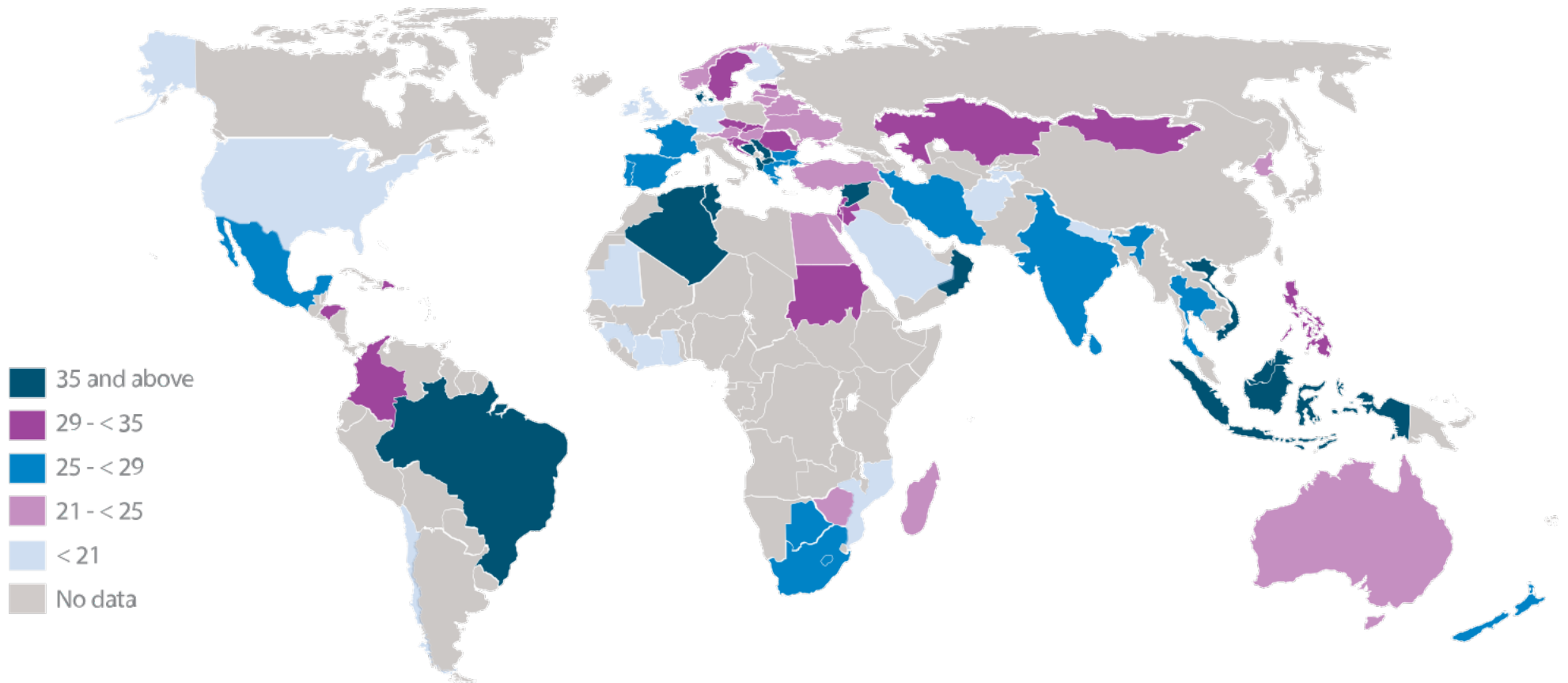
Open Science

Diversity!

Women students in mathematical and natural sciences (percentage of total)

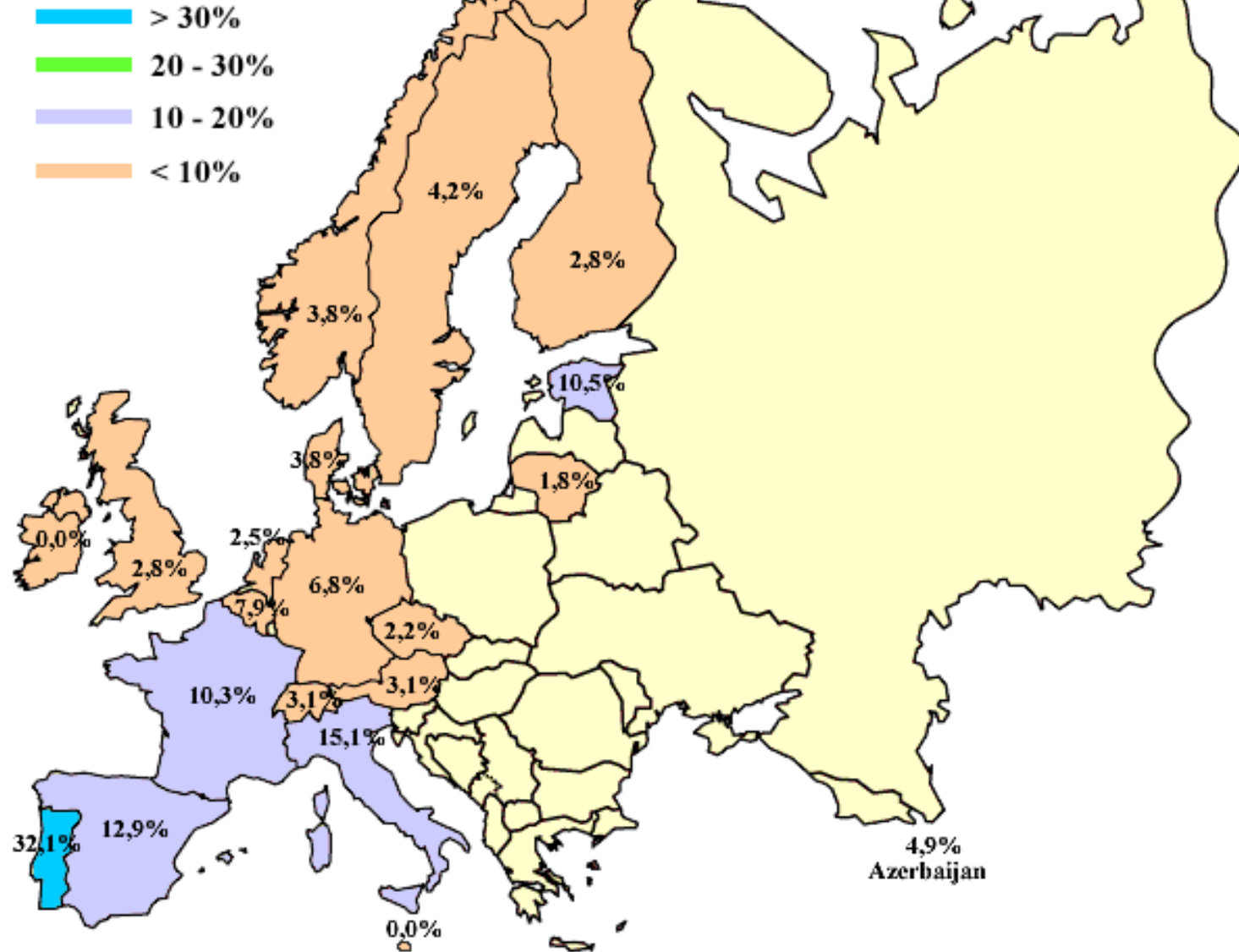


Women students in engineering (percentage of total)



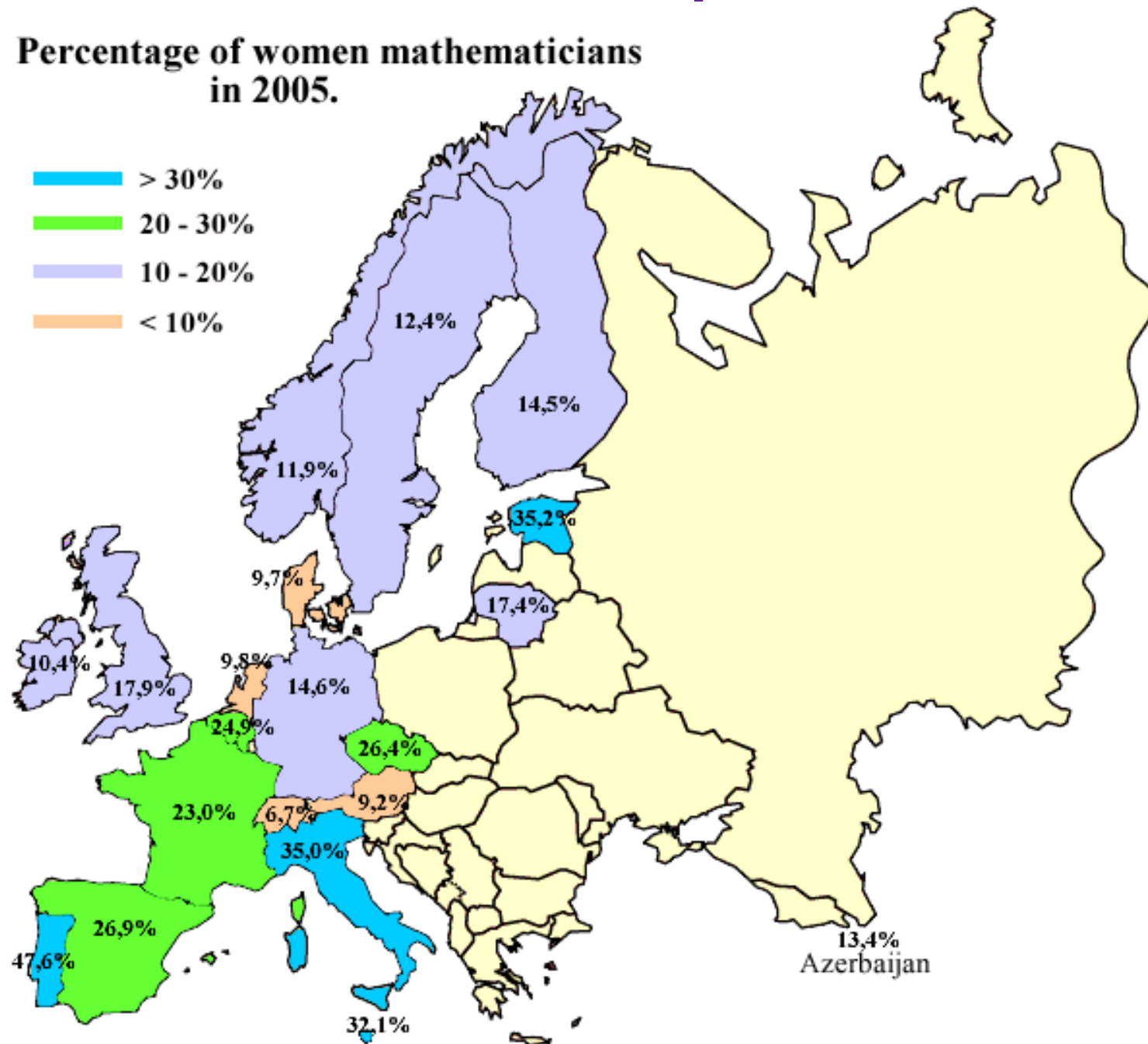
# Diversity!

Percentage of women math professors (in 2005)



# Diversity!

Percentage of women mathematicians in 2005.



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Diversity!

Why would one care?

Why would one care?

We need all the talented minds out there!

Why would one care?

We need all the talented minds out there!

More and better ideas from a diverse group

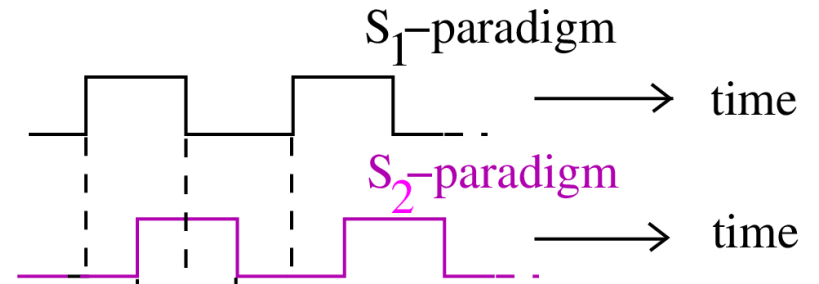
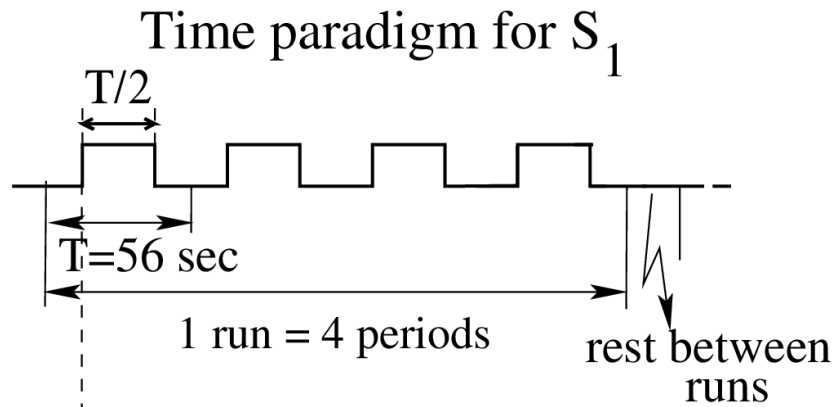


Another type of diversity:

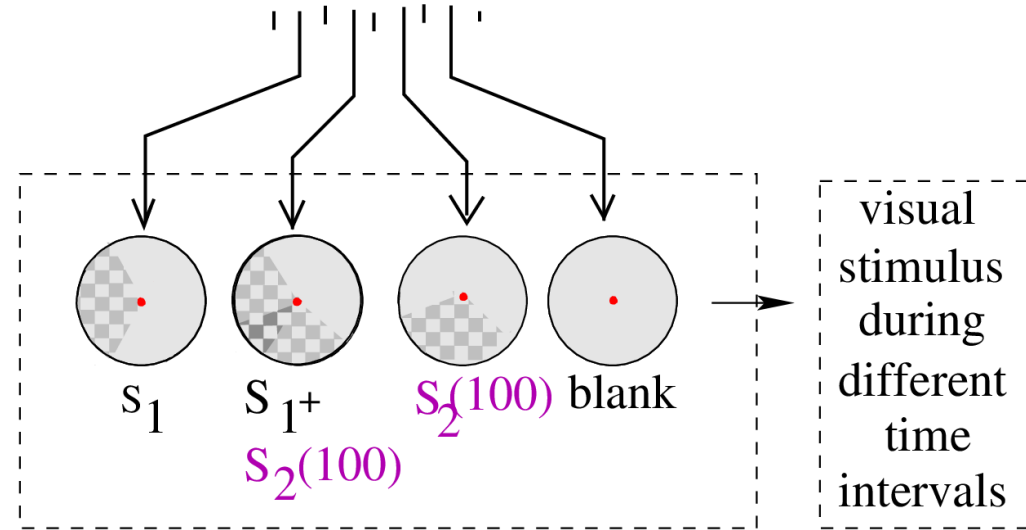
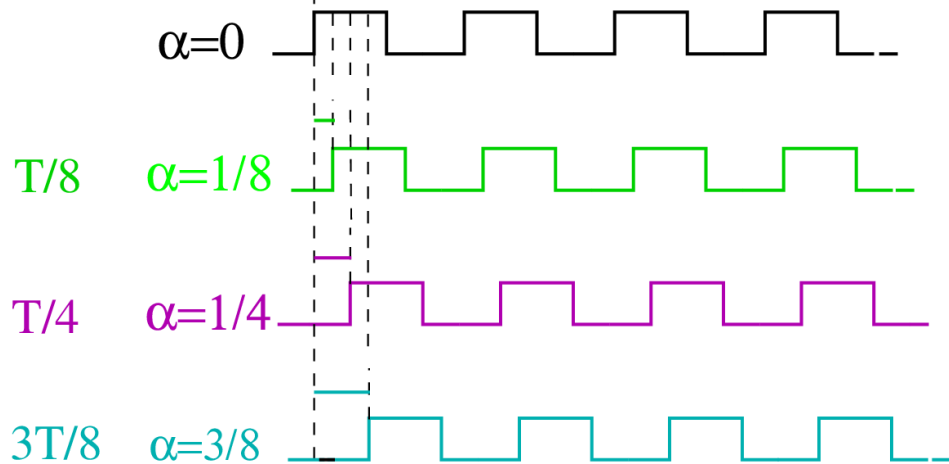
Openness to diverse sources of problems  
providing opportunities for science inquiry

Some examples from my career:

- \* started out in mathematical physics, then applied many of the same tools to signal processing.
- \* later, worked on projects in neuroscience,



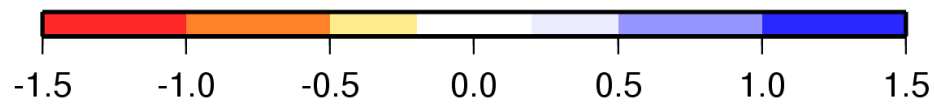
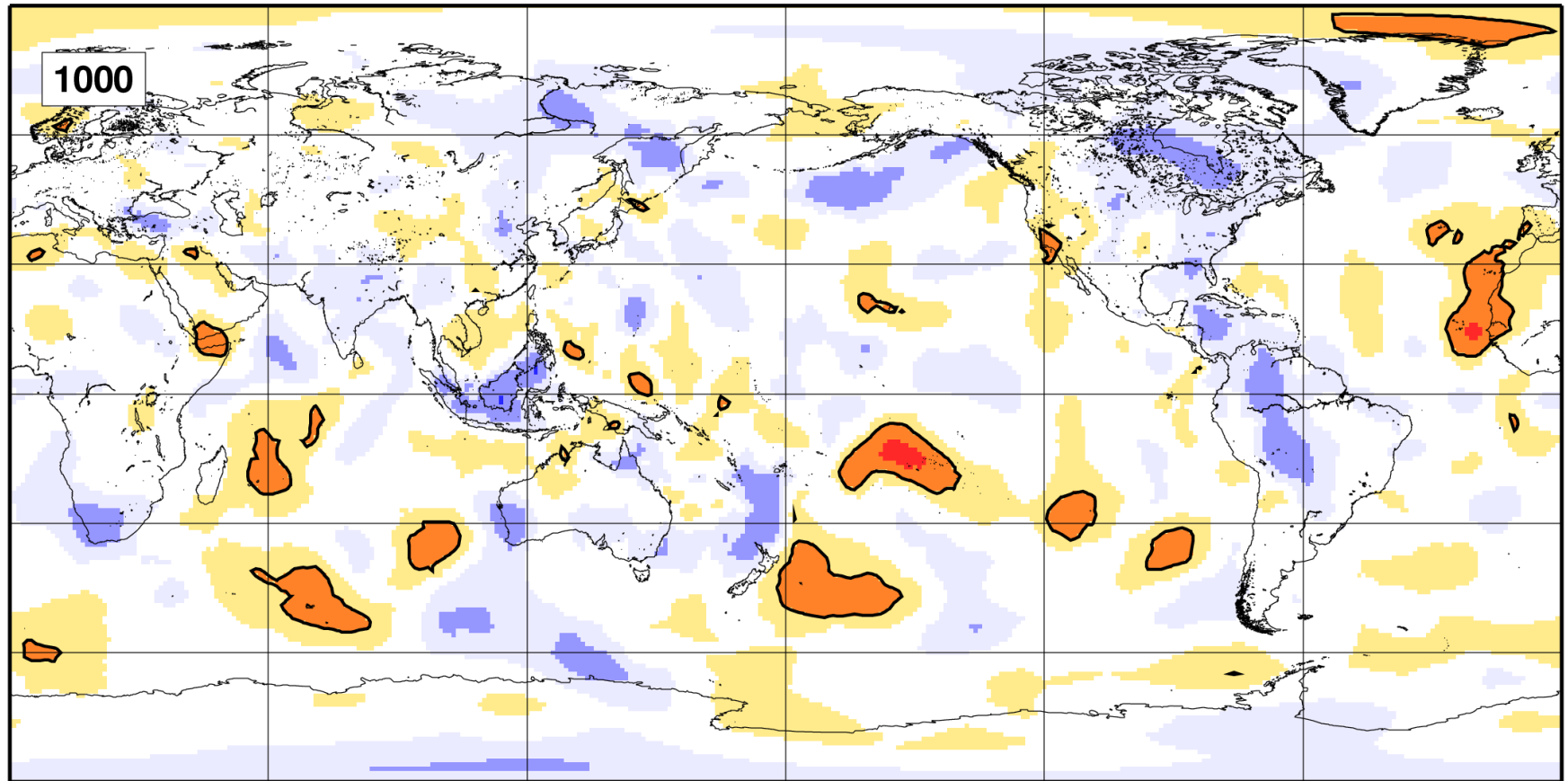
Different time paradigms for  $S_2$



Some examples from my career:

- \* started out in mathematical physics, then applied many of the same tools to signal processing.
- \* later, worked on projects in neuroscience, geophysics,

# Diversity!

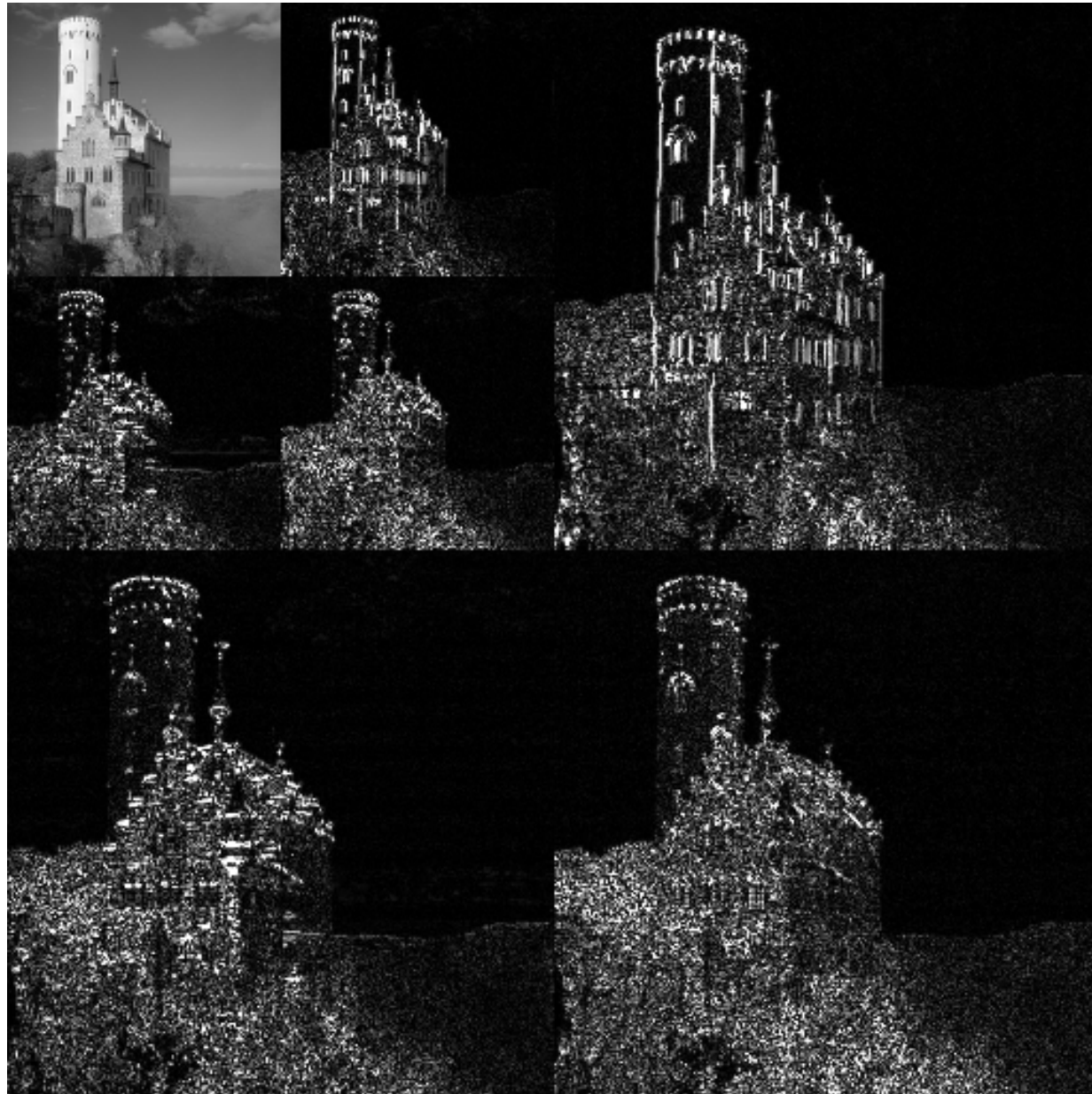


Pwave velocity perturbations (%)

Some examples from my career:

- \* started out in mathematical physics, then applied many of the same tools to signal processing.
- \* later, worked on projects in neuroscience, geophysics, image and video processing,

# Diversity!



Some examples from my career:

- \* started out in mathematical physics, then applied many of the same tools to signal processing.
- \* later, worked on projects in neuroscience, geophysics, image and video processing, art history and art conservation,



# Diversity!



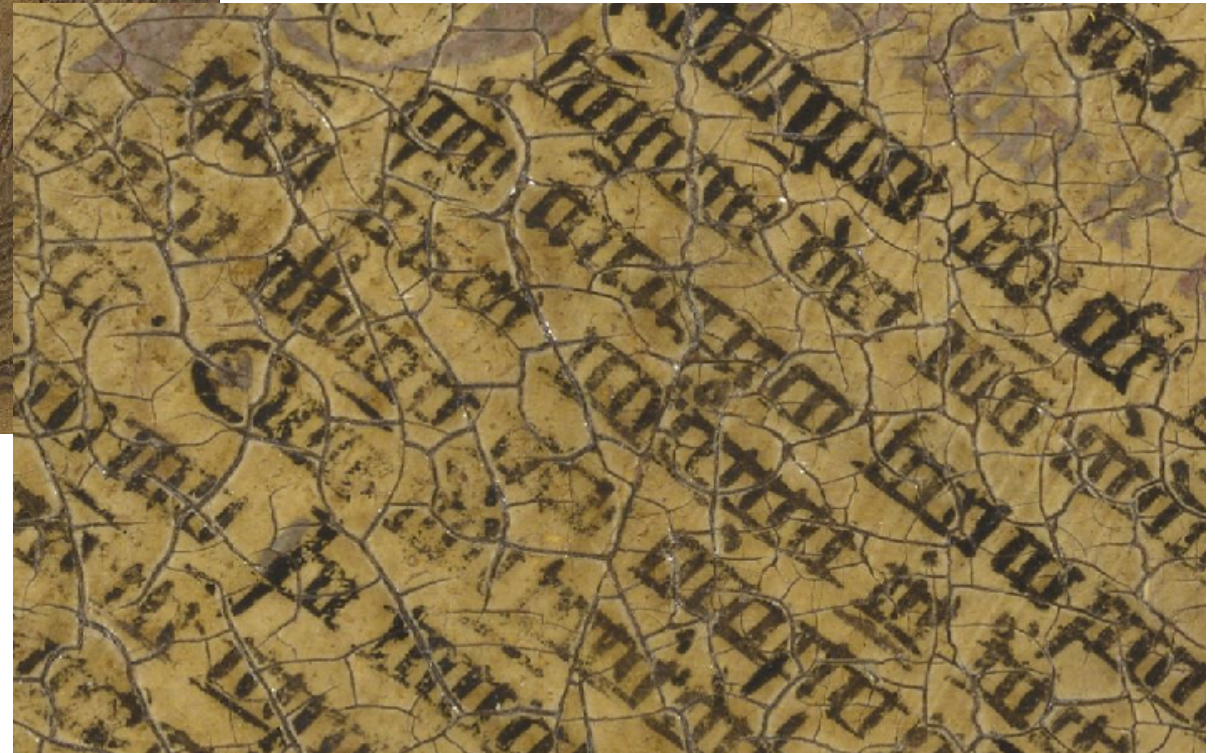
# Diversity!





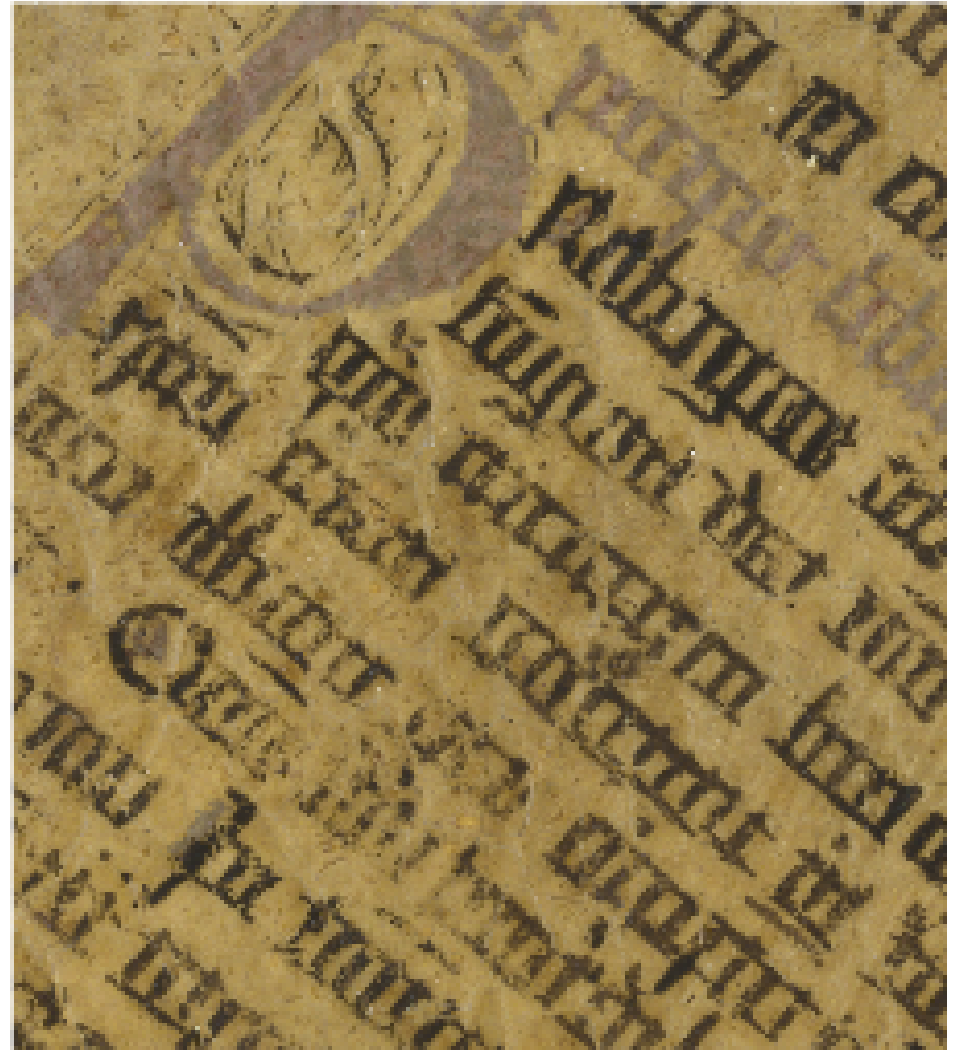
EPFL

Diversity!



EPFL

Diversity!



EPFL

Diversity!

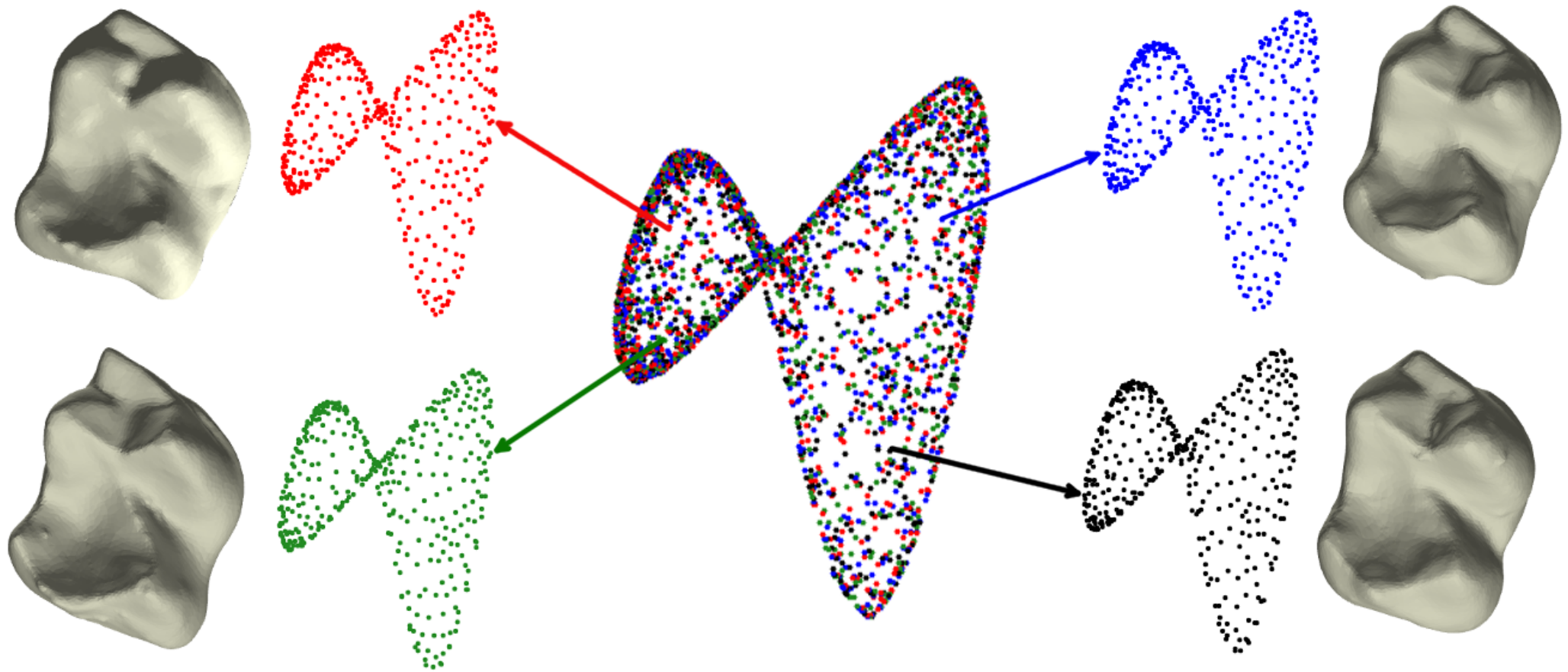
Some examples from my career:

- \* started out in mathematical physics, then applied many of the same tools to signal processing.
- \* later, worked on projects in neuroscience, geophysics, image and video processing, art history and art conservation, biological morphology



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Diversity!



# Diversity!

Openness to diverse sources of problems  
providing opportunities for science inquiry

\* wavelet bases: input from computer vision  
applicability



Openness to diverse sources of problems  
providing opportunities for science inquiry

\* machine learning:

Diffusion on Fibre Bundles