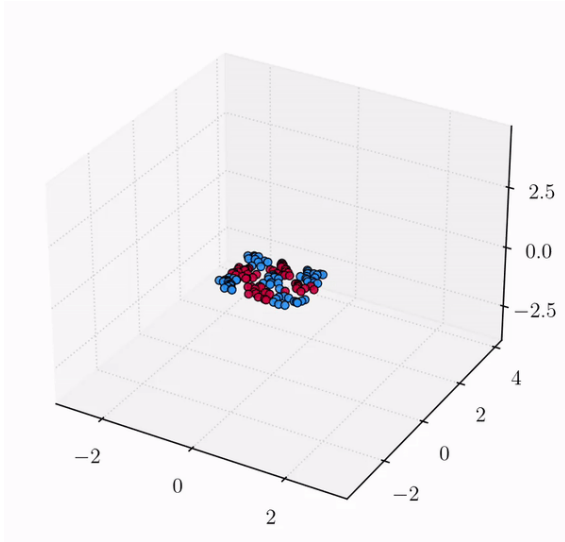


Borjan Geshkovski

Postdoc working with Laurent Demanet, Department of Mathematics

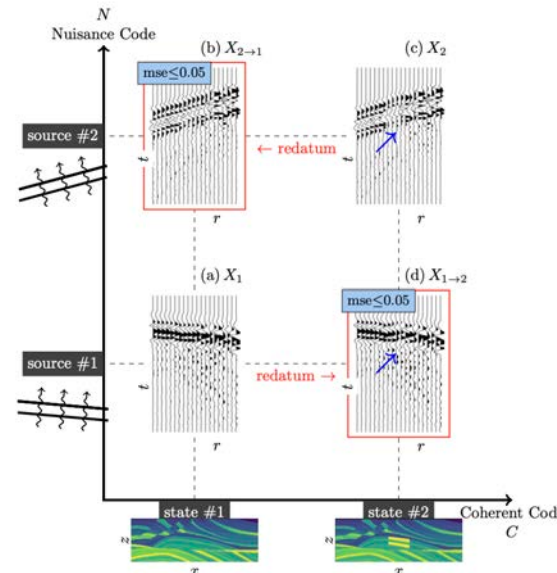
Past work:

- Mathematical control theory
- Foundations of deep learning
- The interplay of these two fields



Current work:

- Interpretable neural networks
- “Deep redatuming” using tools from matrix recovery and statistical learning.



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1	1	-1	1	-1
1	1	-1	1	-1
1	1	-1	1	-1
1	1	-1	1	-1



Eve Meltzer

Graduate Student working with Professor Einstein, Civil Engineering

Past work:

Crystallographic analysis of experimentally deformed ice



Current work:

Working with the Millimeter-Wave Project for geothermal drilling to understand strength and thermophysical properties of rock, specifically sandstone, before and after melting.

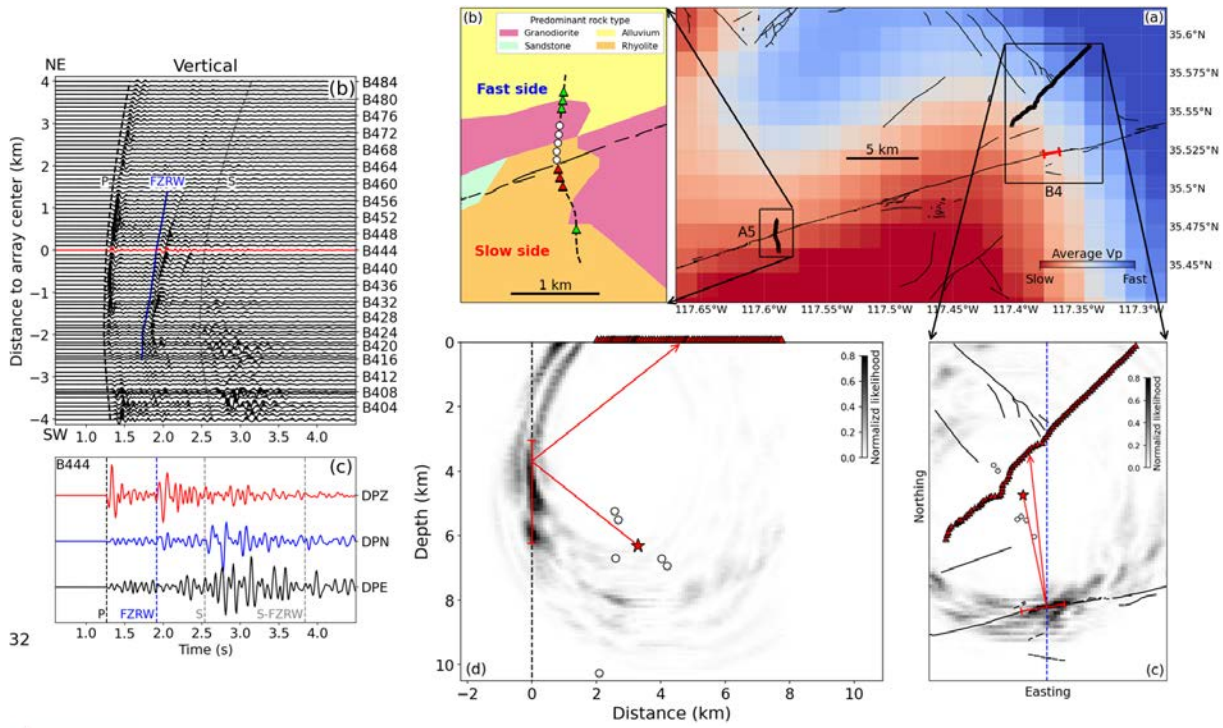


Hongrui Qiu

Postdoctoral Associate working with Dr. Nori Nakata, Department of EAPS

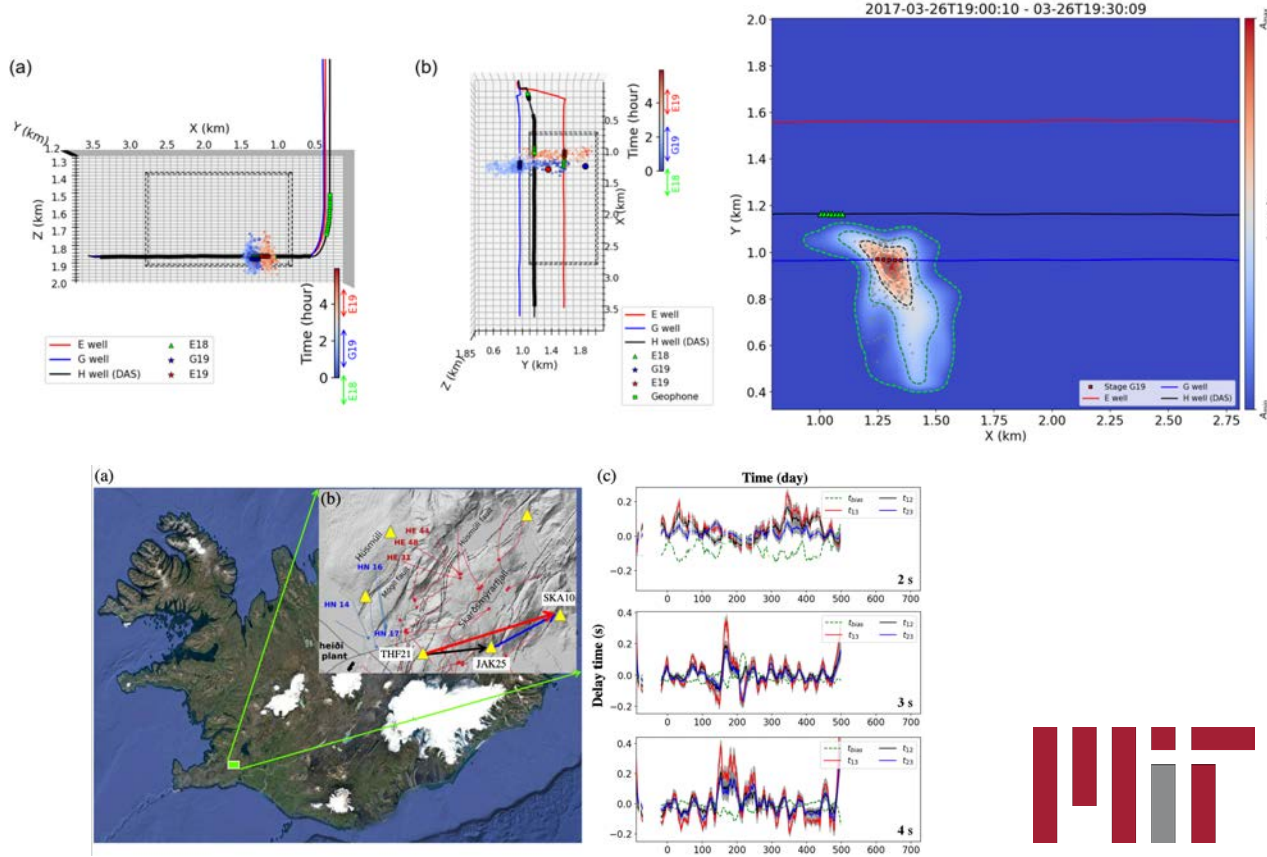
Past work:

Multi-scale Imaging and monitoring of fault zones



Current work:

Imaging fractures and monitoring changes at depth using ambient noise



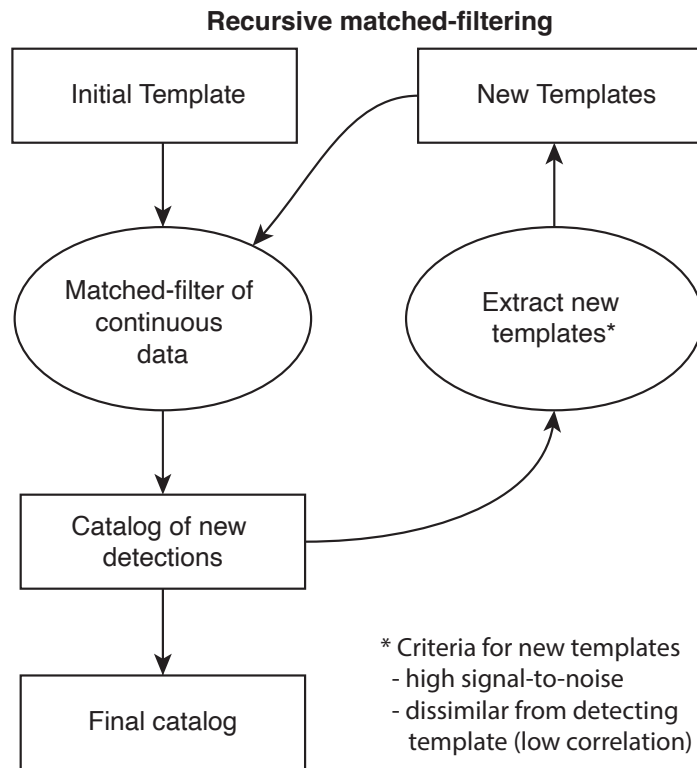
Mathilde Wimez

Field researcher with Nate Murphy, Alaska Earthquake Center

Formally PhD student with William Frank at EAPS, MIT

Past work:

“Systematic matched filter search of long period earthquake in volcanic swarms”



* Criteria for new templates
- high signal-to-noise
- dissimilar from detecting template (low correlation)

Current work:

Field work in summer

Tools implementation, mentoring and outreach in winter



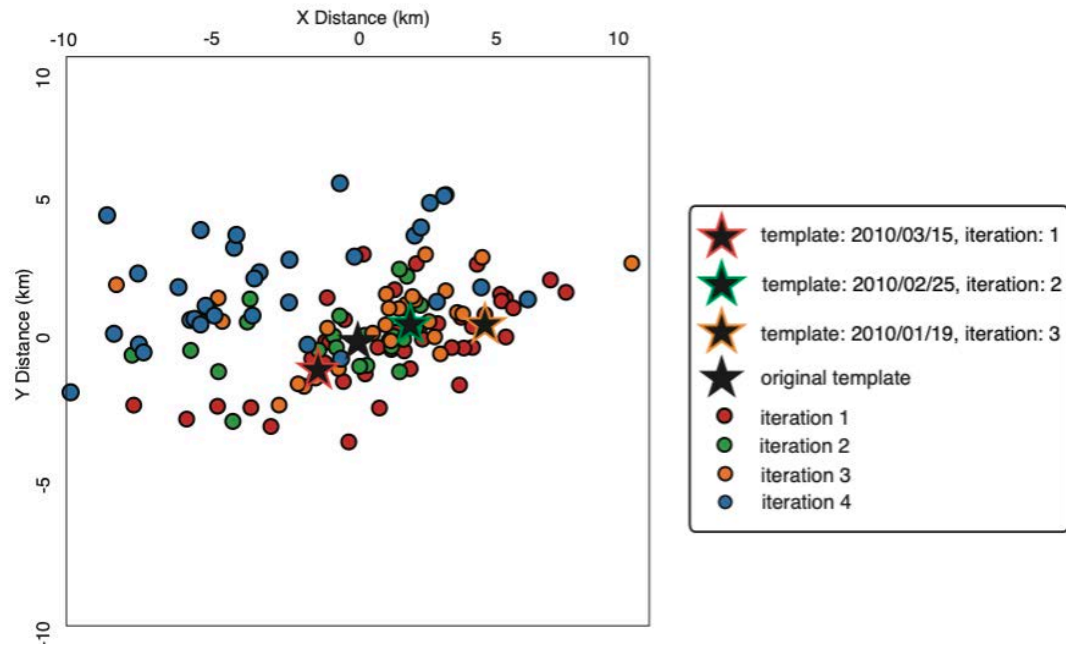
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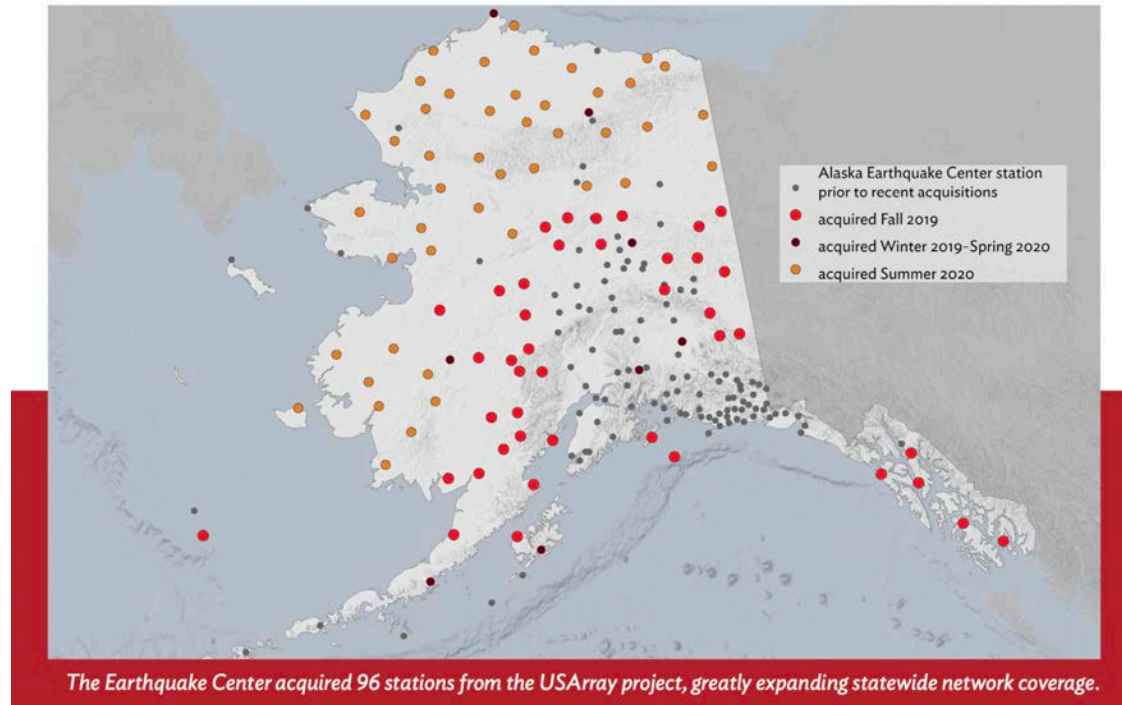
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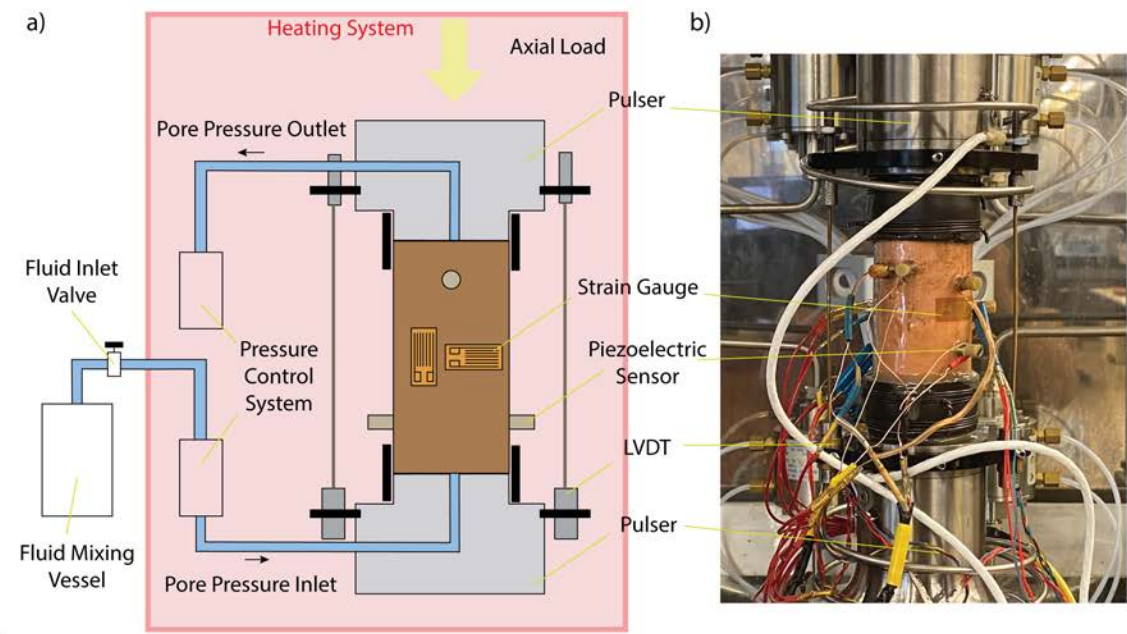
Tiange Xing

Post-doc Associate working with Matej Pec, EAPS

Past work:

Quantify the influence of fluid interaction on the long-term creep deformation of basaltic rocks (Xing et al., 2022)

- Mechanical data
- P/S-wave velocity
- Poro-perm evolution
- Acoustic emissions
- Microstructure (X-ray tomographic data)
- Fluid composition evolution



Current work:

- Describe the creep deformation using a generalized equation to predict creep rate and fracture occurrence
- In-situ fluid chemistry analysis (CO₂ & pH)

