

# Imaging Passive Seismic Data Stanford University

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the Ruby ... - Stanford University

## Imaging the Fracture Zone Using ... - Stanford Earth

ABSTRACT Rekindling the passive seismic imaging effort at Stanford, I have acquired grants with Simon Klemperer of the Stanford Crustal Research Group

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from both the Petroleum Research Fund and the National Science Foundation to pursue two- and three-dimensional imaging efforts of the subsurface in a passive listening methodology.

## **A return to passive seismic imaging - Stanford University**

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## **Simon Klemperer's Profile | Stanford Profiles**

Submitted to Geophysics March 2005 Stanford Exploration Project, Mitchell Building, Department of Geophysics, Stanford University, Stanford, CA 94305-2215  
ABSTRACT Passive seismic imaging is the process of synthesizing the wealth of subsurface information available from reflection seismic experiments by recording ambient sound with an array of geophones distributed at the surface.

## **Research | Crustal Geophysics - Stanford University**

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### **Biondo Biondi | Stanford Earth**

In June 2010, Stanford students deployed a passive broadband seismic array consisting of 50 stations with 5-10 km spacing in a line down the axis of the Ruby Range and two crossing profiles. The stations will collected data for two years, and were removed in June 2012.

### **Biondo Biondi | Institute for Computational & Mathematical ...**

Waves generated by opportunistic or ambient noise sources and recorded by passive sensor arrays can be used to image the medium through which they travel. Spectacular results have been obtained in seismic interferometry, which open up new perspectives in acoustics, electromagnetics, and optics.

### **Imaging passive seismic data - Stanford University**

Broadband Salton Seismic Imaging Project (bb-SSIP)  
In January 2011, students and faculty from Stanford University deployed a network of 40 seismometers across southernmost California from the Pacific Ocean to the Colorado River. These seismometers recorded earthquakes from around the world for a period of 2

years.

## **Flow-Imaging of Convective Geothermal ... - Stanford Earth**

Stanford Exploration Project, Mitchell Building, Department of Geophysics, Stanford University, Stanford, CA 94305-2215 ABSTRACT Passive seismic imaging is the process of synthesizing the wealth of subsurface information available from reflection seismic experiments by recording the ambient sound available at the location of an array of geophones distributed at the surface.

## **Integration of Active and Passive Seismic Data for ...**

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## **Imaging Passive Seismic Data Stanford University**

Active seismic data include 3-D surface surveys and vertical seismic profiling (VSP). Passive seismic data are microseismic events induced by the change in stress and pore pressure associated with fluid injection. Different data are sensitive to different

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property changes caused by CO<sub>2</sub> injection. Surface seismic data show the reflectivity changes.

### **Daylight imaging in V x y z media - Stanford University**

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### **Imaging Passive Seismic Data Stanford**

Reflectivity imaging with passive seismic energy Baskir and Weller (1975) describe possibly the firstpublished attempt to use passive seismic energy to image subsurface reflectivity. They briefly describe crosscorrelating long seismic records to produce correlograms that could be processed, stacked and displayed as conventional seismic data.

## **Imaging Passive Seismic Data Stanford University**

Stanford University, Stanford, California, February 10-12, 2020 ... We discuss acquisition of seismic velocity models needed to use passive seismic data to locate drilling targets in convective ... demonstrated by active flow imaging at 15-25m for shale formations, such a travel-time table accurate to 30m applied to ...

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## **Imaging Passive Seismic Data Stanford University**

Stanford University, Stanford, California, February 12-14, 2018 ... Four fracture-parallel boreholes and two orthogonal boreholes will be used to acquire active and passive seismic data during ... represent the number of sources and geophones in the monitoring/imaging system, respectively. For field data ...

## **SEP148 -- TABLE OF CONTENTS - Stanford University**

In June 2010, Stanford students deployed a passive broadband seismic array consisting of 50 stations with 5-10 km spacing in a line down the axis of the Ruby Range and two crossing profiles. The stations will collect seismic data for two years, which will be used to create a map of the subsurface in the area that can be used for interpretation.

### **Imaging passive seismic data - The University of Edinburgh**

My students and I devise new algorithms to improve the imaging of active and passive seismic data. Images obtained from seismic data are the main source of information on the structural and stratigraphic complexities in Earth's subsurface and on many subsurface dynamic processes.

### **Passive Imaging with Ambient Noise by Josselin Garnier**

My students and I devise new algorithms to improve the imaging of active and passive seismic data. Images obtained from seismic data are the main source of information on the structural and stratigraphic complexities in Earth's subsurface and on many subsurface dynamic processes.

## **Imaging Passive Seismic Data Stanford**

## **University**

Seismic interferometry of passive data offers a potential solution to creating reservoir-scale images in urban environments. A four-month, high station density passive seismic dataset collected in Long Beach, California is ideal for testing this hypothesis. Preliminary work on these data is promising.



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