

Xu Si

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RESEARCH EXPERIENCE

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| Deep Learning for Earthquake Location | Sep 2020 - Present |
| <ul style="list-style-type: none">Use different types of graph neural network to locate the position of earthquake or microseismic | |
| Deep Learning for Ground Roll Attenuation | Jan 2019 - Mar 2020 |
| <ul style="list-style-type: none">Synthesized common shot gathers with ground rollUsed different types of neural network (U-net, pix2pix, CycleGAN) to attenuate ground roll in seismic dataAnalyzed the different denoising methods' influence to seismic data | |
| Deep Learning for Seismic Data Reconstruction | May 2019 - Jun 2019 |
| <ul style="list-style-type: none">Designed a Conditional Generative Adversarial Network for seismic data reconstruction | |
| Deep Learning for Random Noise Attenuation | Dec 2017 - Dec 2018 |
| <ul style="list-style-type: none">Synthesized shot gathers with different types of random noiseUsed DnCNN to denoise random noise in seismic data | |

INTERNSHIP EXPERIENCE

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| Summer Internship, Anhui Earthquake Agency | Jul 2020 - Aug 2020 |
| <ul style="list-style-type: none">Designed a CNN model for seismic event detection and classificationDeployed the CNN model to the real-time monitoring system | |
| Data Processing Assistant (Internship), Bureau of Geophysical Prospecting | Jul 2017 - Aug 2017 |
| <ul style="list-style-type: none">Analyzed the different denoising methods' influence to seismic dataFinished the processing of seismic data and got the migration profile (2D Seismic Data) | |

EDUCATION

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| University of Science and Technology of China, Hefei, China | Sep 2020 - Present |
| <ul style="list-style-type: none">Ph.D. in Geophysics | |
| China University of Geoscience, Beijing, China | Sep 2017 - Jul 2020 |
| <ul style="list-style-type: none">M.S. in Applied Geophysics, GPA: 86.5/100 (Top 10%) | |
| China University of Geoscience, Wuhan, China | Sep 2013 - Jul 2017 |
| <ul style="list-style-type: none">B.E. in Applied Geophysics, GPA: 82.5/100 (Top 30%) | |

KEY SKILLS

Software Knowledge:

- Programme: Python, Matlab and C
- Machine learning frame: Keras, Tensorflow and Pytorch
- Seismic data processing software: Geoeast

PUBLICATIONS

- Yuan, Y., X. Si, and Y. Zheng, 2020, Ground roll attenuation using generative adversarial network. **Geophysics**, 85(4): WA255-WA267.
- Si, X., Y. Yuan, T. Si, and S. Gao, 2019, Attenuation of random noise using denoising convolutional neural networks. **Interpretation**, 7(3): SE269-SE280.
- Si, X., Y. Yuan, F. Ping, Y. Zheng, and L. Feng, 2019, Ground roll attenuation based on conditional and cycle generative adversarial networks. SEG Workshop on Mathematical Geophysics: Traditional vs Learning. (**Best student poster**)

- Li. F., **X. Si**, L. Feng, and J. Gao, 2019, 2-D Seismic Data Reconstruction with Conditional Generative Adversarial Networks. SEG Workshop on Mathematical Geophysics: Traditional vs Learning.
- **Si, X.**, Y. Yuan, 2018, 2-D Seismic Data Reconstruction with Conditional Generative Adversarial Networks. 88th Ann. Mtg., Soc. Expl. Geophys., Expand Abstracts, 1986-1990.

AWARDS AND HONORS

- National Scholarship for postgraduate in China, 2019.12.
- SEG 3rd International Workshop on Mathematical Geophysics: Best student poster, 2019.11.
- Merit postgraduate in CUGB, 2019.11.
- Third prize in National Exploration Geophysics Competition for college students, 2018.08.
- First prize in Academic Scholarship, 2017-2019.