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## 工作经历

2019.10-至今 南京工业大学交通运输工程学院工作，讲师；

2019.02-2019.05 澳大利亚联邦科工，访问学者；

2017.05-2019.06 中科院地质与地球物理研究所，博士后；

## 教育背景

2012.09-2017.03 河海大学，地球探测与信息技术，博士；

2009.09-2012.06 河海大学，地球探测与信息技术，硕士；

2005.09-2009.06 南京工业大学，勘查技术与工程专业，学士；

## 研究领域

1.岩石物理（局域流、应力扰动作用）

2.地下水检测

## 主讲课程

本科生课程：工程地质（英文）、岩土工程监测与检测

## 招生方向

如岩土工程、防灾减灾与防护工程、地质工程领域（专业学位）

## 科研项目

### 主要纵向课题：

1. 国家自然科学基金博士后面上项目，Y700004000，非均质天然气藏中局域流扰动特征及其影响研究，2017.11-2019.4

### 主要横向课题

1. 中国科学院地质与地球物理研究所，犁式缆高精度波场延拓技术，

2019.11-2020.11

学术兼职

奖励荣誉

学术成果

### 1. 论文列表

**曹呈浩**, 符力耘, 付博焯. 2020, 一种基于 3D 复杂介质的弹性建模数值方法. 地球物理学报, **63**, no. 07,2836-2845.

**Cao, C.**, F. Chen, L.-Y. Fu, J. Ba, and T. Han. 2020, Effect of stress interactions on anisotropic P-SV-wave dispersion and attenuation for closely spaced cracks in saturated porous media. *Geophysical Prospecting*, **68**, no. 8,2536-2556. doi: <https://doi.org/10.1111/1365-2478.13007>.

**Cao, C.**, L.-Y. Fu, J. Ba, and Y. Zhang. 2019, Frequency- and incident-angle-dependent P-wave properties influenced by dynamic stress interactions in fractured porous media. *Geophysics*, **84**, no. 5,1-12. doi: [doi: 10.1111/1365-2478.12446](https://doi.org/10.1111/1365-2478.12446).

**Cao, C.**, J. Ba, and L.-Y. Fu. 2018, Poroelastic analysis on mesoscopic flow interactions in layered porous media. *Journal of Applied Geophysics*, **155**,78-92. doi: <https://doi.org/10.1016/j.jappgeo.2018.05.016>.

**Cao, C.**, H. Zhang, and Y. Pan. 2017, Interaction of multiple courses of wave-induced fluid flow in layered porous media. *Geophysical Prospecting*, **65**, no. 4,1037-1052.

**Cao, C.**, H. Zhang, Y. Pan, and X. Teng. 2016, Relationship between the transition frequency of local fluid flow and the peak frequency of attenuation. *Applied Geophysics*, no. 01,156-165+221.

Zhang, H., **C. Cao**, Z. Dan, Z. Shang, T. Li, and H. Wan. 2013,

- Improving Pre-stack Seismic Data Resolution Based on Inverse Q Filter. *Applied Mechanics & Materials*, **331**,617-621.
- Zhang\*, H., **C. Cao**, and Z. Shang. 2014, A nonlinear method of simultaneous inversion for pre-stack seismic data based on edge-preserving regularization, *SEG Technical Program Expanded Abstracts 2014*. 3226-3230.
- Zhao, L., **C. Cao**, Q. Yao, Y. Wang, H. Li, H. Yuan, J. Geng, and D.-h. Han. 2020, Gassmann Consistency for Different Inclusion-Based Effective Medium Theories: Implications for Elastic Interactions and Poroelasticity. *Journal of Geophysical Research: Solid Earth*, **125**, no. 3,e2019JB018328. doi: 10.1029/2019jb018328.