

# Stanford

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## Maartje Maria Boon

Postdoctoral Research Fellow, Energy Resources Engineering

### Bio

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#### BIO

Maartje Boon joined Stanford University in 2017 as a Postdoctoral Research Fellow in the Department of Energy Resources Engineering in the School of Earth, Energy & Environmental Sciences. She combines experimental techniques involving X-Ray CT imaging with numerical modelling to look at the impact of rock structure heterogeneities on multiphase flow properties and its implications for Carbon Capture and Storage (CCS).

Boon obtained her PhD degree in Petroleum Engineering from Imperial College London where she was part of the Qatar Carbon Capture and Storage Research Centre (QCCSRC). She developed a new experimental technique to observe solute spreading and mixing in natural consolidated rock. She used experimentally obtained statistical rock descriptions to numerically investigate the impact of rock heterogeneity on reactive transport in porous media.

Her ambition is to become an expert in experimental imaging techniques as well as numerical modelling of reactive transport in porous media. In the future, she would like to have her own research group at one of the leading universities in the field of Energy Sustainability.

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Imperial College of Science, Technology & Medicine (2017)

### Teaching

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#### COURSES

2017-18

- Laboratory Measurement of Reservoir Rock Properties: ENERGY 201 (Win)