## Fluid Flow Research in Collaboration with Imperial College London

Vanessa Núñez-López UTCCS-5 Meeting, January, 2020 Austin, Texas





#### **DR. SAMUEL KREVOR**

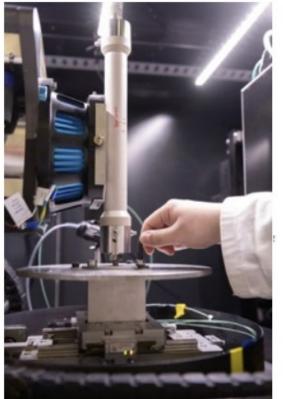
/// Faculty of Engineering, Department of Earth Science & Engineering
Senior Lecturer

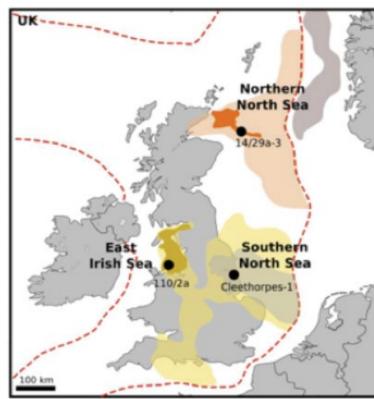
## Imperial College London

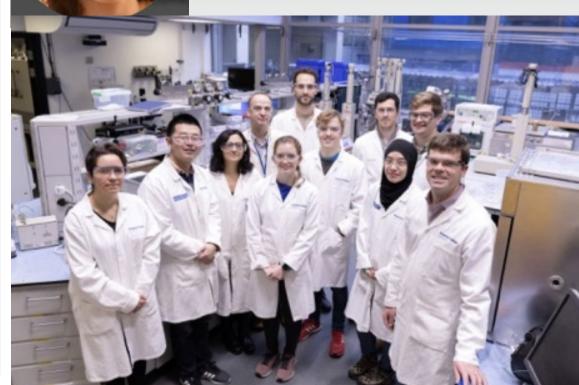
# SUBSURFACE CO<sub>2</sub>

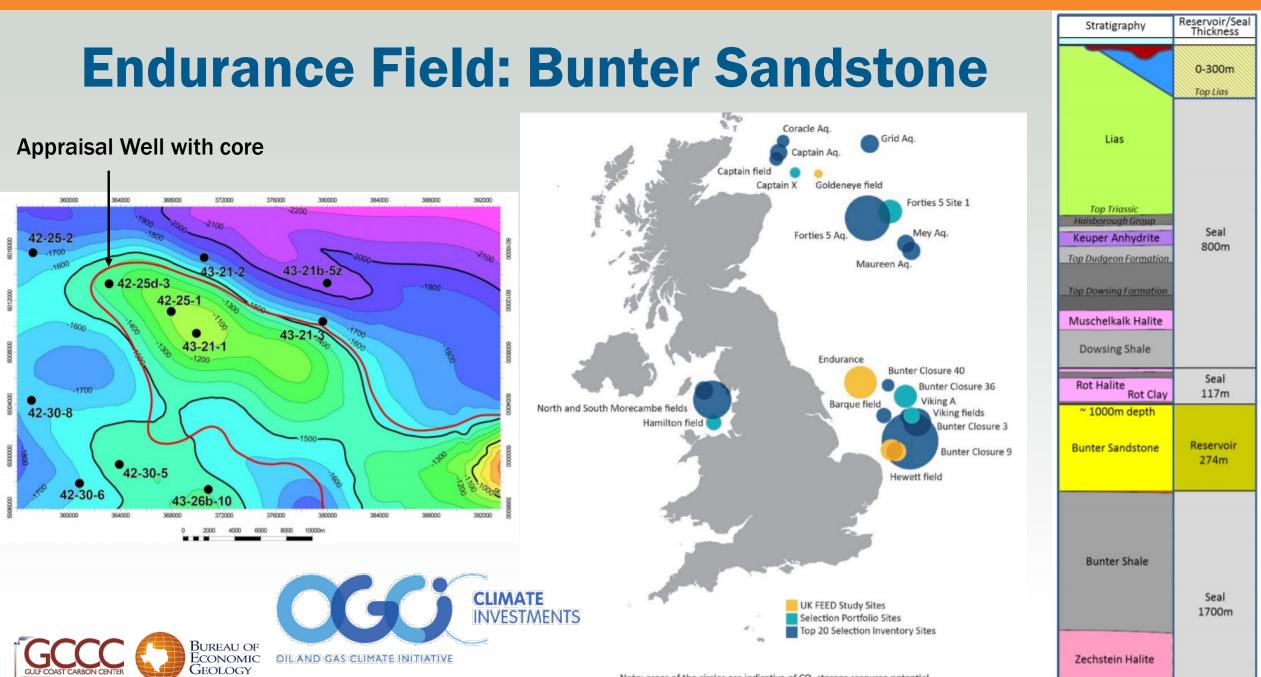


Sojwal Manoorkar: Postdoc







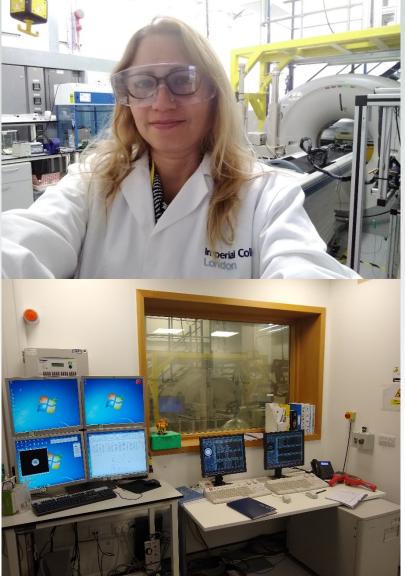


Note: areas of the circles are indicative of CO, storage resource potential.

### **Qatar CCS Multiscale Imaging Laboratory**

X-Ray CT Scan





#### Fractional Flow Core Analysis

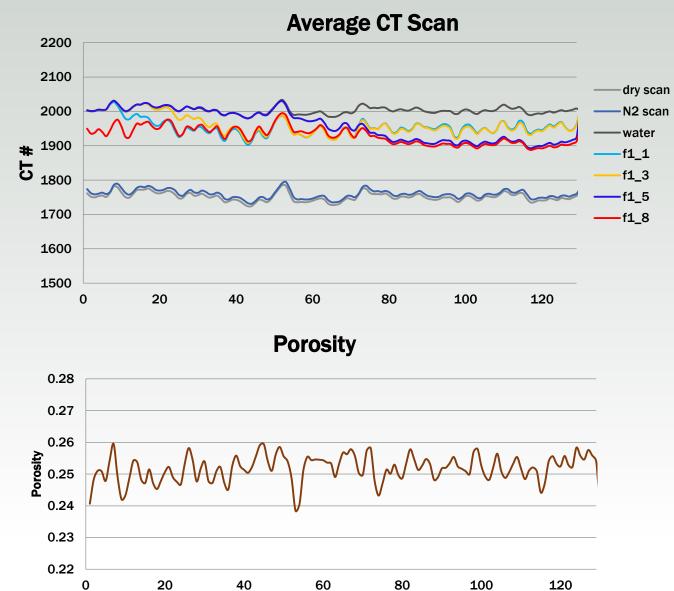


	N2 Pumps	Brine Pumps
Flow Rate (ml/min)	0.025	0.475
Pressure (Bar)	29.9	32.8





#### **CT Scan Direct Outputs**

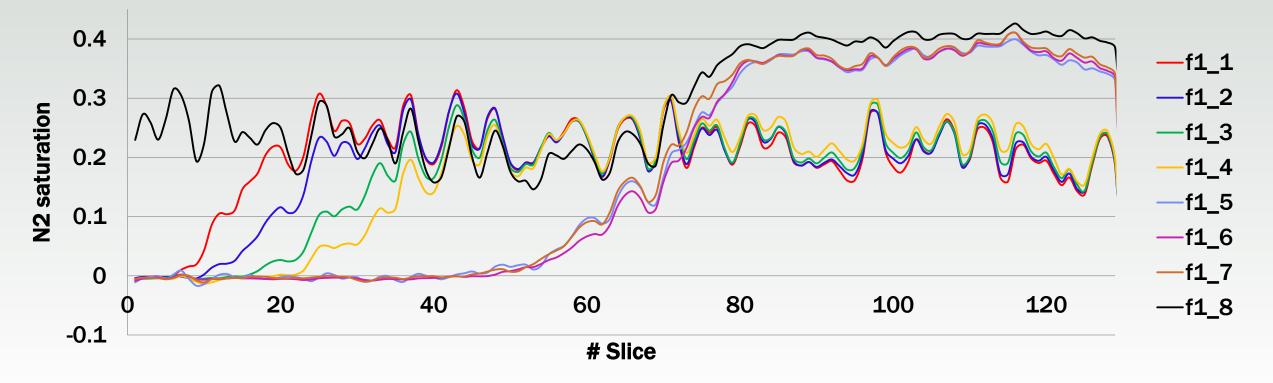


# Slice



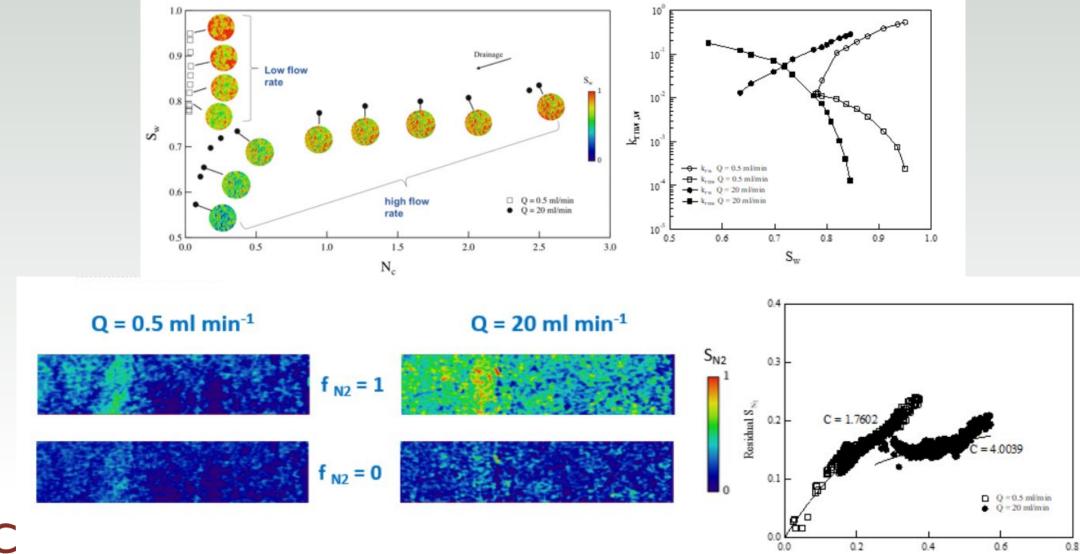
#### **CT Scan Direct Outputs**

#### **Saturation**





#### **Characterization of Multiphase Flow in Heterogeneous Sandstones**



GCCC GULF COAST CARBON CENTER

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Initial S ...



