

**Dr. Jonny Wu**  
**Assistant Professor, University of Houston**  
**Department of Earth and Atmospheric Science**

**Research Interests**

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- Global plate tectonics, subduction zones and mantle structure
- 4D structural reconstruction
- Analog sandbox modeling of fault systems
- Basin analysis & petroleum geoscience

**Education**

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**Royal Holloway University of London UK** 2006-2010  
Ph.D, Geology, Department of Earth Sciences  
Thesis: 4D evolution of deepwater fold-thrust belt, offshore NW Borneo, South China Sea  
Supervisor: Ken McClay

**Royal Holloway University of London UK** 2004-2005  
M.Sc, Basin Evolution and Dynamics, Department of Earth Sciences  
Thesis: 4D analogue modeling of transtensional pull-apart basins  
Supervisor: Ken McClay

**University of Waterloo, Canada** 1993-1998  
B. Eng, Geological Engineering

**Academic and Industry Experience**

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Assistant Professor 2016-present  
Department of Earth and Atmospheric Sciences  
University of Houston, Texas

Postdoctoral Research Fellow 2011-2016  
Department of Geosciences, National Taiwan University  
Supervisor: Prof. John Suppe

Analogue Model Laboratory Graduate Research Assistant 2005-2006  
Fault Dynamics Research Group, Royal Holloway UK  
Supervisor: Prof. Ken McClay

Exploration Geologist 1998-2004  
Shell Canada, Calgary, Canada

## Publications

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1. **Wu, J.E.**, Suppe, J., Lu, R., Kanda, R.V.S. Philippine Sea and East Asian plate tectonics since 52 Ma constrained by new subducted slab reconstruction methods. *Journal of Geophysical Research Solid Earth*, 121, 6, 4670-4741.
2. **Wu, J.E.**, McClay, K.R., Frankowicz, E., 2015. Niger Delta gravity-driven deformation above the relict Chain and Charcot oceanic fracture zones, Gulf of Guinea: insights from analogue models. *Marine and Petroleum Geology*, 65, 43-62.
3. Sukan, M., **Wu, J.E.**, and McClay, K.R., 2014. 3D analogue modelling of transtensional pull-apart basins: comparison to the Cinarcik Basin, Marmara Sea, Turkey, *Bollettino di Geofisica Teorica e Applicata*, 55, 4, 699-716.
4. Lu, R., He, D., Suppe, J., **Wu, J.E.**, Liu, B., Chen, Y.G., 2014. Structural model of the central Longmen Shan thrusts using seismic reflection profiles: Implications for the sediments and deformations since the Mesozoic. *Tectonophysics*, 630, 43-53.
5. **Wu, J.E.**, McClay, K.R., Whitehouse, P., Dooley, T., 2012. Chapter 25: 4D analogue modelling of transtensional pull-apart basins. In: Bally, A.W. and Roberts, D.G. eds., *Phanerozoic Regional Geology of the World*, Vol. 1, Elsevier, 675 pp.
6. **Wu, J.E.**, McClay, K.R., 2011. Chapter 14: 2D analog modeling of fold and thrust belts: dynamic interactions with syn-contractional sedimentation and erosion, in: K. McClay, J. H. Shaw and J. Suppe, eds., *Thrust Fault-Related Folding*, American Association of Petroleum Geologists Memoir 94.
7. **Wu, J.E.**, McClay, K.R., Despinois, F., Woollard, M., Evans, R., Isa, L., Janai, S., 2010. Analogue modelling of deepwater fold and thrust belts: Dynamic interaction with syntectonic sedimentation. *Trabajos de Geologia*, 30, 331-336.
8. **Wu, J.E.**, McClay, K.R., Whitehouse, P., Dooley, T., 2009. 4D Analogue Modelling of Transtensional Pull-Apart Basins, *Marine and Petroleum Geology*, 26, 8, 1608-1623.