

**Focused Research Group Workshop on  
Variationally Stable Neural Networks  
Columbia, SC, February 16-17, 2024**

The workshop will take place in Sumwalt 219 (1212 Greene St.). It features three sessions in which the presentations will be mixed with discussions and short breaks. The order of the presentations is suggested but not guaranteed.

**9:30 am – 12:30 pm      Friday, February 16, 2024**

- Leszek Demkowicz, University of Texas at Austin  
*DPG enables the use of multiple variational formulations*
- Wolfgang Dahmen and Zhu Wang, University of South Carolina  
*Certiability of Primal-Dual-Methods for GAN*
- Leszek Demkowicz, University of Texas at Austin  
*The double adaptivity method. Theory and 2D experiments*

**2:00 pm – 5:00 pm      Friday, February 16, 2024**

- Jonathan Zhang, University of Texas at Austin  
*Variational Formulations for the Cook's Membrane Problem*
- Jay Gopalakrishnan, Portland State University  
*Applications in Optics*
- Yuan Qiu, Georgia Tech  
*Derivative-enhanced deep operator network*

**9:30 am – 12:00 noon      Saturday, February 17, 2024**

- Hong Wang, University of South Carolina  
*Variable-order FPDEs for anomalous transport in heterogeneous media and vibration of viscoelastic structures: modeling, analysis, and control*
- Peng Chen, Georgia Tech  
*Scalable neural operator for Bayesian optimal experimental design*