Arushi Saxena

Website: https://alarshi.github.io/ Email: saxena.arushi@ufl.edu

EDUCATION

Center for Earthquake Research and Information

University of Memphis, TN Aug. 2015 – May 2020

PhD in Geophysics

Advisor: Dr. Eunseo Choi

Thesis Title: Investigating intraplate seismicity in the Central and Eastern US: Linking observations

and numerical models

Indian Institute of Technology

Roorkee, India

Integrated Master and Bachelor of Technology in Geophysics

Aug. 2009 - Aug. 2014

Advisor: Dr. Rambhatla G. Sastry

Thesis Title: Non invasive hydraulic conductivity estimation using microgravity survey

Professional Experience

Post-doctoral Associate at University of Florida, USA	$June,\ 2020-Present$
Research Assistant at University of Memphis, USA	$Aug,\ 2015-May,\ 2020$
Junior Geophysicist at Sterling Oil and Gas, Nigeria	July, 2014 – May, 2015

PUBLICATIONS

- * Saxena, A., Langston, C. A. (2021). Detecting lithospheric discontinuities beneath the Mississippi Embayment using S-wave receiver functions. *Geophys. J. Int.*, **228(2)**, 744-754.
- * Saxena, A., Choi, E., Powell, C. A., Aslam, K. S. (2021). Seismicity in the central and southeastern United States due to upper mantle heterogeneities. *Geophys. J. Int.*, **225(3)**, 1624-1636.
- * Geng, Y., Powell, C. A., Saxena, A. (2020). Joint local and teleseismic tomography in the central United States: exploring the mantle below the upper Mississippi Embayment and the Illinois Basin. J. of Geophys. Res.: Solid Earth, 125(10)

RECENT CONFERENCE PRESENTATIONS

- \star Reproducing present-day plate motions in high-resolution global mantle flow models with plate boundaries , $AGU\ Fall\ Meeting,\ 2021$
- \star Geodynamic modeling for stress and seismicity in the southern Korean Peninsula driven by lateral variations of lithospheric thickness and plate kinematics, AGU Fall Meeting, 2020
- * Detecting lithospheric discontinuities beneath the Mississippi Embayment using S wave receiver functions, Eastern Section Seismological Society of America, 2019
- \star Evolution of lithospheric drip and its impact on the seismicity in the Central and Southeastern US, AGU Fall Meeting, 2018
- * Numerical modeling of slab-released Fluids in the New Madrid Seismic Zone, AGU Fall Meeting, 2017
- * GeoTrust Hub: A Platform For Sharing And Reproducing Geoscience Applications, AGU Fall Meeting, 2017

INVITED TALKS

- * Investigating regional and global process through seismology and geodynamic models at Departmental Seminar in University of Florida, US.
- * Reproducing present-day plate motions in high-resolution global mantle flow models with plate boundaries at Departmental Seminar in GFZ Postdam, Germany.

AWARDS

\star Part of a funded research grant entitled "Computational Infrastructure	2020-2021
for Geodynamics - Community Code Scaling"	
\star Eastern Section of Seismological Society of America travel grant awardee	2019
\star AGU Fall Meeting Student travel grant awardee	2017
\star Graduate Aptitude Test in Engineering Scholarship awardee	$Jun\ 2013-Jun\ 2014$
\star Summer Research Fellowship, Indian Academy of Sciences awardee	May 2011 – July 2011

EDUCATION AND OUTREACH

- * **Blog editor** of geodynamics section in European Geophysical Union: Responsible for monthly blog-posts on topics ranging from Geodynamics 101 to news and views on Earth science.
- * Part of Scientist in Every Florida School: Gave presentations to Florida middle school students on plate tectonics, mantle convection, the rock cycle, and experience as an Earth scientist.