

[Yonghui Peng](#) is a 4th year PhD student in the Department of Earth and Environmental Science at Rutgers University-Newark. His research focuses on applying laboratory and borehole nuclear magnetic resonance to estimate the soil texture and soil water content in the context of improving water management in agricultural and geological applications. Some of this work was presented at the [2018 AGU Fall Meeting](#), which was Yonghui's first experience at AGU.



Before attending Rutgers, Yonghui attended Central South University, China where he received a B.S. Geosciences (2011) and M.S. Geophysics (2014). He first fell in love with geophysics during the last year of his undergraduate study when he participated in an ore exploration survey at a lead-zinc mine in southwestern China using induced polarization. The excitement he got from working on this project drove him to pursue a M.S. degree in geophysics. During his M.S. degree, Yonghui focused on controlled source electromagnetic data acquisition and processing but also gained experience using various geophysical methods such as electrical resistivity tomography, induced polarization, and ground penetrating radar.

Outside of research, Yonghui is the vice-president of the Rutgers Society of Exploration Geophysicists (SEG) student chapter. He has also participated as a science TA for the Rutgers Educational Opportunity Fund where he tutored students on basic geological concepts. This volunteer service was particularly rewarding for Yonghui because the program provides access to higher education for economically and educationally disadvantaged students and is a great way to help students to adapt to university life. After graduation Yonghui plans to continue his research in a postdoctoral position or as a researcher in industry.

For more information about his research please contact [Yonghui Peng](#).

Interested in being highlighted, or know a student who should be? Please email [Matthew Sirianni](#) for more information about the Student Spotlight. We are also seeking research highlights that showcase use of near-surface geophysics in other [AGU sections and focus groups](#). If you are interested in writing a short, one-page highlight, please contact [Kisa Mwakanyamale](#).