

# CURRICULUM VITAE

Personal Information			
Name	Shen Yuan	Gender	Male
Position Title	Professor		
Working Department	College of Plant Science & Technology		
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Tel	+86-15623599522	Fax	NA
Research Interest			
<ul style="list-style-type: none"><li>➤.. Rice physiology and ecology</li><li>➤.. High-yielding and efficient cultivation</li><li>➤.. Resource use efficiency</li><li>➤.. Crop modeling and yield gap</li><li>➤.. Sustainable development of rice-based cropping system</li></ul>			
Professional Memberships			
Crop Science Society of China (2020-present)			
Agronomy Society of America (2018-present)			
Crop Science Society of America (2018-present)			
Soil Science Society of America (2018-present)			
Other Roles			
<b>Principal investigator of Rice program of Southeast Asia and Africa in Global Yield Gap Atlas</b> ( <a href="https://www.yieldgap.org/">https://www.yieldgap.org/</a> ).			
Education & Working Experience			
<b>Education</b>			
<b>Ph.D.</b>	June 2020, Huazhong Agricultural University; Advisor: Shaobing Peng		
<b>B.Sc.</b>	June 2014, Huazhong Agricultural University; Advisor: Shaobing Peng		
<b>Working experience</b>			
July 2022 -present: Professor, Huazhong Agricultural University;			
Researcher, Hubei Hongshan Laboratory			

## Publications

- 1....Flor R<sup>#</sup>, **Yuan S<sup>#</sup>**, Rizzo G, Agus F, Pame ARP, Ouk A, Then R, Keo S, Kumar V, Grassini P\*. 2024. Accurate measurement of field size is essential for analysis of smallholder survey data. *Field Crops Research*, 311: 109383.
- 2....**Yuan S**, Saito K, van Oort PAJ, van Ittersum MK, Peng S\*, Grassini P\*. 2024. Intensifying rice production to reduce imports and land conversion in Africa, *Nature Communications*, 15(1): 835.
- 3....**Yuan S**, Yang C, Yu X, Zheng C, Xiao S, Xu L, Cui K, Huang J, Peng S\*. 2022. On-farm comparison in grain quality between main and ratoon crops of ratoon rice in Hubei Province, central China. *Journal of the Science of Food and Agriculture*, 102: 7259-7267.
- 4....**Yuan S**, Peng S\*. 2022. Food-energy-emission nexus of rice production in China. *Crop and Environment*, 1: 59-67.
- 5....**Yuan S**, Stuart A, Laborte A, Edreira JR, Dobermann A, Thúy LT, Paothong K, Traesang P, Myo TK, Villafuerte II M, Quicho E, Pame A, Then R, Flor R, Thon N, Agus F, Agustiani N, Deng N, Li T, Grassini P\*. 2022. Southeast Asia must narrow down the yield gap to continue to be a major rice bowl. *Nature Food*, 3: 217-226.
- 6....**Yuan S**, Linqvist BA, Wilson LT, Cassman KG, Stuart AM, Pede V, Miro B, Saito K, Agustiani N, Aristya VE, Krisnadi LY, Zanon AJ, Heinemann AB, Carracelas C, Subash N, Brahmanand PS, Li T, Peng S\*, Grassini P\*. 2021. Sustainable intensification for a larger global rice bowl. *Nature Communications*, 12: 7163.
- 7....**Yuan S**, Zhan X, Xu L, Ling X, Peng S\*. 2021. Increase energy use efficiency and economic benefit with reduced environmental footprint in rice production of central China. *Environmental Science and Pollution Research*, 29: 7382-7392.
- 8....**Yuan S**, Cassman KG, Huang J, Peng S\*, Grassini P\*. 2019. Can ratoon cropping improve resource use efficiencies and profitability of rice in central China? *Field Crops Research*, 234: 66-72.
- 9....**Yuan S**, Peng S, Wang D, Man J\*. 2018. Evaluation of the energy budget and energy use efficiency in wheat production under various crop management practices in China. *Energy*, 160: 184-191.
- 10..**Yuan S**, Peng S\*. 2017. Trends in the economic return on energy use and energy use efficiency in China's crop production. *Renewable and Sustainable Energy Reviews*, 70: 836-844.
- 11..**Yuan S**, Peng S\*. 2017. Input-output energy analysis of rice production in different crop management practices in central China. *Energy*, 141: 1124-1132.

- 12.. **Yuan S**, Peng S, Li T\*. 2017. Evaluation and application of the ORYZA rice model under different crop managements with high-yielding rice cultivars in central China. *Field Crops Research*, 212: 115-125.
- 13.. **Yuan S**, Nie L, Wang F, Huang J, Peng S\*. 2017. Agronomic performance of inbred and hybrid rice cultivars under simplified and reduced-input practices. *Field Crops Research*, 210: 129-135.