

FURONG NIU

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School of Natural Resources and the Environment | University of Arizona

EDUCATION

- 2012 – 2016 Ph.D., Ecohydrology, University of Göttingen, Germany
Dissertation: Transpiration by oil palm and rubber plantations: refining methods and delineating differences
Advisor: Prof. Dr. Dirk Hölscher
- 2009 – 2012 M.Sc., Ecology, Northwest A&F University, China
Thesis: Eco-physiological responses of two dominant species to the precipitation pulse in a natural grassland community at loess hilly-gully region, China
Advisor: Prof. Dr. Bingcheng Xu
- 2005 – 2009 B.Sc., Biology, Mudanjiang Normal University, China

PROFESSIONAL EXPERIENCE

- 2017 – present Postdoctoral Research Associate, School of Natural Resources and the Environment, University of Arizona, USA
Supervisor: Steven R. Archer

PUBLICATIONS

- Niu, F.***, Röhl, A.*, Meijide, A., Hendrayanto, Hölscher, D. Rubber tree transpiration in the lowlands of Sumatra. *Ecohydrology* (2017) e1882.
- Niu, F.**, Duan, D., Chen, J., Xiong, P., Zhang, H., Wang, Z., Xu, B. Eco-physiological responses of dominant species to watering in a natural grassland community on the semi-arid Loess Plateau of China. *Frontiers in Plant Science* (2016) 7: 663.
- Niu, F.***, Röhl, A.*, Hardanto, A., Meijide, A., Hendrayanto, Hölscher, D. Oil palm water use: calibration a sap flux method and a field measurement scheme. *Tree Physiology* (2015) 35: 563–573.
- Röhl, A.*, **Niu, F.***, Meijide, A., Hardanto, A., Hendrayanto, Knohl, A., Hölscher, D. Transpiration in an oil palm landscape: effects of palm age. *Biogeosciences* (2015) 12: 5619–5633.

- Meijide, A., Röhl, A., Fan, Y., Herbst, M., **Niu, F.**, Tiedemann, F., June, T., Rauf, A., Hölscher, D., Knohl, A. Controls of water and energy fluxes in oil palm plantations: effect of environmental variables and oil palm age. *Agricultural and Forest Meteorology* (2017) 239: 71–85
- Hardanto, A., Röhl, A., **Niu, F.**, Meijide, A., Hendrayanto, Hölscher, D. Oil palm and rubber tree water use patterns: effects of topography and flooding. *Frontiers in Plant Science* (2017) 8: 452.
- Mei, T., Fang, D., Röhl, A., **Niu, F.**, Hendrayanto, Hölscher, D. Water use patterns of four tropical bamboo species assessed with sap flux measurements. *Frontiers in Plant Science* (2015) 6: 1202.
- Xu, B., **Niu, F.**, Duan, D., Xu, W., Huang, J. Root morphological characteristics of *Lespedeza davurica* (L.) intercropped with *Bothriochloa ischaemum* (L.) Keng under water stress and P application conditions. *Pakistan Journal of Botany*, (2012) 44: 1857–1864.
- Röhl, A., **Niu, F.**, Meijide, A., Ehbrecht, M., Guillaume, T., Gunawan, D., Hardanto, A., Hendrayanto, Kreft, H., Kuzyakow, Y., Nomura, M., Polle, A., Rembold, K., Sahner, J., Seidel, D., Knohl, A., Hölscher, D. Patterns, controls of stand-scale transpiration after tropical rainforest transformation. In preparation.

* Equal contribution

CONFERENCE PRESENTATIONS

- Röhl, A., **Niu, F.** (*presenter*), Hardanto, A., Meijide, A., Hendrayanto, Knohl, A., Hölscher, D. Transpiration changes by transforming tropical rainforest to rubber and oil palm plantations. **Oral presentation.** "European Conference of Tropical Ecology" and the Annual Conference of the Society for Tropical Ecology (GTÖ), 2016, Göttingen, Germany
- Niu, F.**, Röhl, A., Hardanto, A., Meijide, A., Junedi, H., Herdhata, A., Hendrayanto, Knohl, A., Hölscher, D. Transpiration in an oil palm landscape: effects of palm age. **Oral presentation.** Annual Meeting of the Association for Tropical Biology and Conversation (ATBC), 2015, Honolulu, USA
- Niu, F.**, Röhl, A., Hardanto, A., Hanf, A., Hendrayanto, Junedi, H., Köhler, M., Hölscher, D. Water use of oil palms: calibration of a sap flux method and first results. **Poster presentation.** Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (GfÖ), 2014, Heidelberg, Germany

FIELD EXPERIENCE

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| 2013 | Nearly one-year intensive field work in lowlands of Jambi, Sumatra, Indonesia |
| 2011 | Four months field work at Ansai Research Station of Soil and Water Conservation, Chinese Academy of Sciences, China |

GRANTS

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|-------------|------------------------------------------------------------|
| 2012 – 2016 | Fellowship of China Scholarship Council |
| 07/2015 | Conference funding of the German Academic Exchange Service |

Oct 4, 2017