



First Name: **Wei** Last Name: **Xiong**

Title: **Senior Scientist**

Institution: **International Maize and Wheat Improvement Center**

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Email: **w.xiong@cgiar.org**

Website: **www.cimmyt.org**

Education:

PhD: **Agronomy**

MS: **Meteorology**

BS: **Geography**

General Areas of Expertise:

Climate smart agriculture, agricultural modeling, E*M*G interaction analysis, Conversation agriculture, and climate change impact assessment.

Short Bio:

I am working on interdisciplinary researches that focus on the interactions between environment and food production. I utilize biophysical models to investigate the impacts of climate change on agriculture, water, and design adaptation. Based on CIMMYT's tons of long term trial information, I improve agricultural models and their parameterization method to better understand the E*M*G interaction and evaluate efficiency of climate-smart strategies.

Five Representative Publications:

Xiong W. et al. 2016. Calibration-induced uncertainty of the EPIC model to estimate climate change impact on global maize yield, *Journal of Advances in Modeling Earth Systems*, 8(2): 1358-1378.
Xiong W. et al 2014. Can climate-smart agriculture reverse the recent slowing of rice yield growth in China? *Agriculture, ecosystems & environment* 196, 125-136.
Wang J. et al. 2012. China's water-energy nexus: greenhouse-gas emissions from groundwater use for agriculture. *Environmental Research Letters* 7 (1), 014035
Xiong W. et al. 2010. Climate change, water availability and future cereal production in China. *Agriculture, Ecosystems & Environment* 135 (1), 58-69.
Xiong W. et al. 2009. Future cereal production in China: the interaction of climate change, water availability and socio-economic scenarios. *Global Environmental Change* 19 (1), 34-44

FEWSTERN Symposium 2017 Presentation Title and Abstract:

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