



## Adaptation in Agriculture

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### Outline

The aim of this module is to provide solid theoretical and empirical foundations to study adaptation to climate change in agriculture. The first lecture introduces methods that rely on cross-sectional variation of climate and of agricultural practices to identify the optimal response of farmers to different temperature and precipitation normals. Studies that examine adaptation in South America, Africa, Asia and Europe are presented as examples. The second lecture critically evaluates strengths and weaknesses of the cross-sectional methods in comparison with agronomic models and with methods that rely on short-term weather fluctuations. Short-term and long-term adaptation potential, the cost of adaptation and uncertainty in future climate change scenarios will be discussed in the second lecture.

### Readings

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