Lecture 1. Warming up

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August, 2018

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Knowing each other

- 1. Name;
- 2. Home country;
- 3. Current and previous program (Econ/Ag Econ; MS/PhD);
- 4. Research areas;
- 5. Expectation of the course.

(Up to 2 minutes)

The course

- 1. Review of mathematics up to the master's level, but more weights are placed on the undergraduate levels;
- 2. Advanced materials are labelled with "*";
- 3. There will be 10 sessions for mathematics and 3 sessions for R (a start-up);
- 4. Attendance is not required;
- 5. The only course focusing on solving mathematic problems;
- 6. Questions are welcomed.

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Why mathematics?

- 1. A useful tool to simplify the real world issues and to understand economic problems:
 - What would a profit maximizing farmer do when fertilizer is becoming more expensive?
 - What would a utility maximizing consumer do when goods are becoming cheaper?
 - How do the price risks affect the import allocation?
 (Muhammad, 2012).
- 2. Very important for quantitative studies:
 - How to estimate or parameterize an economic model? (Villoria and Hertel, 2011)
 - Econometrics: what is ordinary least squares? What does "least squares" mean?

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Following ups

- 1. Class time;
- 2. First "assignment" by tomorrow morning at 10:00 am.

End.