

# What is Research?

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This Version: March 29, 2017

- 1 What is Research?
- 2 How to Organize a Research?
- 3 My Research Journal

# A Simple Example

- `www.tmall.com`

# What is Research?

- Define a problem
- Solve the problem

# Why do we need different subjects?

- A problem can be detached from different angles;
- A single angle cannot solve the problem perfectly.

# Why does research become an occupation?

- Problems are more complex and complicated, which makes specialization necessary;
- Methodologies of research have been developed rapidly in the recent decades.

# Why is research valuable?

- Public goods
- Increasing return to scale.

# A General Process

- Plan
- Implement
- Present



# How to Plan?

- Choose a topic
- Read literatures
- Make feasibility analysis
- Design methods
- Write a proposal

# How to Implement? I

- Theory
  - Construct assumptions
  - Deduce key conclusions
  - Discuss properties
  - Extend models
- Experiment
  - Design experiments
  - Do experiments
  - Report results

# How to Implement? II

- Data
  - Collect data
  - Clean data
  - Describe data
  - Fit models
  - Report results

# How to Present?

- Write papers/reports
- Present on meetings/competitions
- Publish papers/reports

# First Year

- 2015-04, New Angle, Member
- 2015-05, Qincheshulu Social Practice Team, Member
- 2015-05, China Internet Project at UCB, Research Assisitant
- 2015-06, WISE Book Club, Organizer

## Second Year

- 2015-08, 985 Staffs Database Project, Member
- 2015-11, 2015 Chinas Social-economic Development Analysis Tournament by Harvard, Research Assistant
- 2016-02, China's Prices Project, Founder and Teamer Leader
- 2016-03, Prof. Zhigang Qin, Second Author and Technical Leader
- 2016-04, Top Plan in Economics, Member
- 2016-05, Zuqizhisheng Social Practice Team, Adviser
- 2016-06, WISER Club, Co-president

## Third Year

- 2017-02, Python China, Co-partner
- 2017-03, Prof. Thomas Sargent, Research Assistant
- 2017-03, QuantEcon, Contributor

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