Introductio:

Price and Basic Welfare Impac

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War on Taiwan

The Impact of Tariffs on Price and Welfare: Literature Reviews and Future Research Plans

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Outline

Introduction

Price and Basic Welfare Impac

Distributional Effects and Rationales of the Trade War

Effects from Tariffs

Effects of the US-China Trade War on Taiwan

- 1 Introduction
- 2 Price and Basic Welfare Impact
- 3 Distributional Effects and Rationales of the Trade War
- 4 Productivity Effects from Tariffs
- 5 Effects of the US-China Trade War on Taiwan

Introduction

Introduction

Price and Basic Welfare Impac

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War o Taiwan

Trade Economics

- Price effects
- Welfare effects
- Distributional effects
- Productivity effects

US-China Trade War

- Started 2018
- Literatures: econometric methods and quantitative models
- Affected Taiwan since we are highly export-oriented

Price and Basic Welfare Impact

When Export Supply Is Not Perfectly Elastic

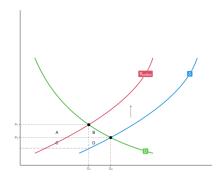
Introduction

Price and Basic Welfare Impact

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War on



- Consumer price rises, producer price recieved falls
- Consumer's tax burden is rectangle A
- Producer also bear tax burden C

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When Export Supply Is Perfectly Elastic

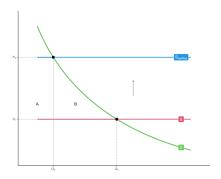
Introduction

Price and Basic Welfare Impact

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War on



- Consumer price rises more, producer price recieved unchanged
- Consumer's tax burden is a bigger rectangle A
- Producer bears no tax burden

Price and Basic Welfare Impact

Introductior

Price and Basic Welfare Impact

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War or Taiwan

Empirics in the US-China Trade War

- Amiti et al. (2019), Fajgelbaum et al. (2020), and many other papers: almost perfectly elastic export supply
- Improting consumers bear all burdens
- "complete pass-through" of import tariffs to consumers

Distributional Effects and Rationales of the Trade War

Introductior

Price and Basic Welfare Impac

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War on Taiwan

Distributional Effects

- Winners: producers
 - Exporters did not pay tariff since tariffs were paid by foreign consumers
 - Domestic price rose since imported goods were tariffed
- Losers: consumers: paid tariffs
 - Counties in the Midwestern Plains were hit hardest by retaliatory tariffs

Distributional Effects and Rationales of the Trade War

Introductior

Price and Basic Welfare Impac

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War or Taiwan

Rationales of the Trade War: Political perspectives

- 2016 presidential election data combined
- Fajgelbaum et al. (2020): Politically competitive counties were protected the most by US tariffs
- Consistent to the logic of majority voting
- Relatively suggestive

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Introductio

Price and Basic Welfare Impac

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War on Taiwan

"Within" An Industry

- Melitz (2003): in a heterogeneous firm trade model, firms with higher productivity
 - expand to larger scale
 - gain more market share
 - increase market efficiency
- Tariffs may block productivity growth

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Introductio

Price and Basic Welfare Impac

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War or Taiwan

"Between" industries

- Krugman (1987): learning-by-doing model
 - Firms cumulate experience and improve productivity by time
 - Temporary government protections keep infant industries from stringent foreign competitions
- Tariffs help productivity accumulation

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Introductioi

Price and Basic Welfare Impac

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War on Taiwan

Discussions

- No contradiction in the above two model
- "Within" or "between" industries matters
- Productivity is hard to measure
- Literature in the US-China trade war in this remained small

Effects of the US-China Trade War on Taiwan

Introduction

Price and Basic Welfare Impact

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War on Taiwan

Why does the US-China Trade War matter to Taiwan?

- Taiwanese firms are largely export-oriented, especially toward the US and China
- US high tariffs to Chinese goods may be good for Taiwanese exportes in the short run
- Loss of purchasing power globally may hurt them in the long run
- We do not know which channels are the most influential, so econometric estimations are needed

Effects of the US-China Trade War on Taiwan

Introduction

Price and Basic Welfare Impac

Distributional Effects and Rationales of the Trade War

Productivity Effects from Tariffs

Effects of the US-China Trade War on Taiwan

Future Research Plan

- Estimate the gain of exporters in the short run
- Conncet trade policy making with political considerations
- Evaluate trade policy, give suggestions based on empirical evedence
- Productivity estimations are extensions