

A spatiotemporal analysis of comparative advantage in tea production in China

YIHUI CHEN^{1,2,3}, MINJIE LI², ASSEM ABU HATAB^{3,4*}

¹*Anxi College of Tea Science, Fujian Agriculture and Forestry University, Fuzhou, China*

²*School of Economics and Management, Fuzhou University, Fuzhou, China*

³*Department of Economics, Swedish University of Agricultural Sciences, Uppsala, Sweden*

⁴*Department of Economics and Rural Development, Arish University, Al-Arish, Egypt*

*Corresponding author: assem.abouhatab@slu.se

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Electronic supplementary material (ESM)

Supplementary Tables S1–S4

Supplementary Figures S1–S2

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Table S1. Top global producers and exporters of tea, 2010–2017

Country	Production (1 000 tonnes)	World production (%)	Exports (1 000 tonnes)	World exports (%)
China	2 075.376	37.83	328.799	17.14
India	1 199.034	21.85	247.081	12.88
Kenya	425.419	7.75	338.031	17.62
Sri Lanka	321.331	5.86	309.211	16.12
Turkey	234.092	4.27	4.233	0.22
Viet Nam	229.847	4.19	110.656	5.77
Indonesia	144.213	2.63	66.990	3.49
Iran	116.252	2.12	18.237	0.95
Myanmar	99.204	1.81	1.464	0.08
Argentina	84.682	1.54	79.214	4.13

Source: Based on data from FAOSTAT (2020)

Table S2. Descriptive statistics of the regional specialisation in 2010–2018

Year	Mean	Min	Median	Max	SD	$N(SPE > 1)$	$N(SPE = 1)$	$N(SPE < 1)$
2010	1.248	0.000	0.338	12.064	1.990	21	0	46
2011	1.250	0.000	0.340	12.321	2.030	20	0	47
2012	1.249	0.000	0.338	11.977	2.046	20	0	47
2013	1.226	0.000	0.334	11.276	1.993	20	0	47
2014	1.189	0.000	0.336	9.463	1.866	20	0	47
2015	1.173	0.000	0.328	9.388	1.806	20	0	47
2016	1.173	0.000	0.334	9.450	1.822	21	0	46
2017	1.103	0.000	0.311	10.123	1.718	21	0	46
2018	1.120	0.000	0.310	10.102	1.696	22	0	45

SD – standard deviation; *SPE* – the regional specialisation

Source: Authors' results based on data from the Fujian Statistical Yearbook (2019)

Table S3. Descriptive statistics of selected variables

Variables	Mean	Min	Median	Max	SD	Skewness	Kurtosis
<i>RCA</i>	−0.246	−1.000	−0.357	0.915	0.563	0.374	−1.066
<i>SPE</i>	1.192	0.000	0.334	12.321	1.878	2.943	10.832
<i>FIS</i>	15.807	1.820	15.850	38.890	5.944	0.206	0.606
<i>URB</i>	52.651	29.600	48.500	98.000	14.340	1.264	1.269
<i>DIS</i>	9.373	8.494	9.393	10.125	0.308	−0.223	−0.517
<i>ADV</i>	0.390	0.000	0.000	1.000	0.488	0.446	−1.807
<i>ROAD</i>	7.209	3.951	7.241	8.321	0.490	−0.854	3.399

ADV – advantageous industry; *DIS* – disposable income; *FIS* – fiscal investment; *ROAD* – road mileage; *RCA* – revealed comparative advantage; *SD* – standard deviation; *SPE* – regional specialisation; *URB* – urbanisation

Source: Authors' results based on data from the Fujian Statistical Yearbook (2019)

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Table S4. Linear correlation coefficients of selected variables

Variables	<i>RCA</i>	<i>SPE</i>	<i>FIS</i>	<i>URB</i>	<i>DIS</i>	<i>ADV</i>	<i>ROAD</i>
<i>RCA</i>	1						
<i>SPE</i>	0.747**	1					
<i>FIS</i>	0.244**	0.079	1				
<i>URB</i>	−0.206**	−0.158**	−0.422**	1			
<i>DIS</i>	−0.244**	−0.129**	−0.214**	0.458**	1		
<i>ADV</i>	0.669**	0.523**	0.109**	−0.248**	−0.214**	1	
<i>ROAD</i>	0.133**	0.123**	−0.095*	−0.072	0.135**	0.105**	1

* and ** denote the significance levels at 0.05 and 0.01, respectively; *ADV* – advantageous industry; *DIS* – disposable income; *FIS* – fiscal investment; *ROAD* – road mileage; *RCA* – revealed comparative advantage; *SPE* – regional specialisation; *URB* – urbanisation

Source: Authors' results based on data from the Fujian Statistical Yearbook (2019)

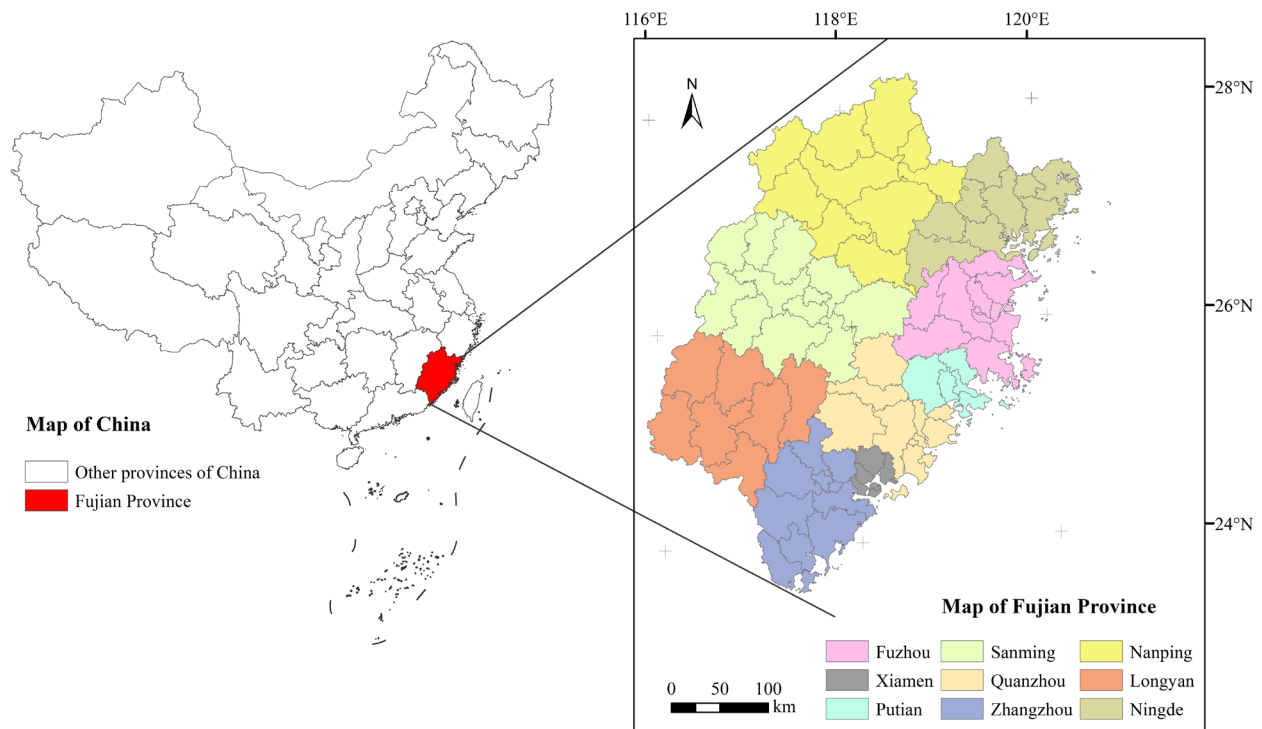


Figure S1. The study area

Source: Compiled by authors

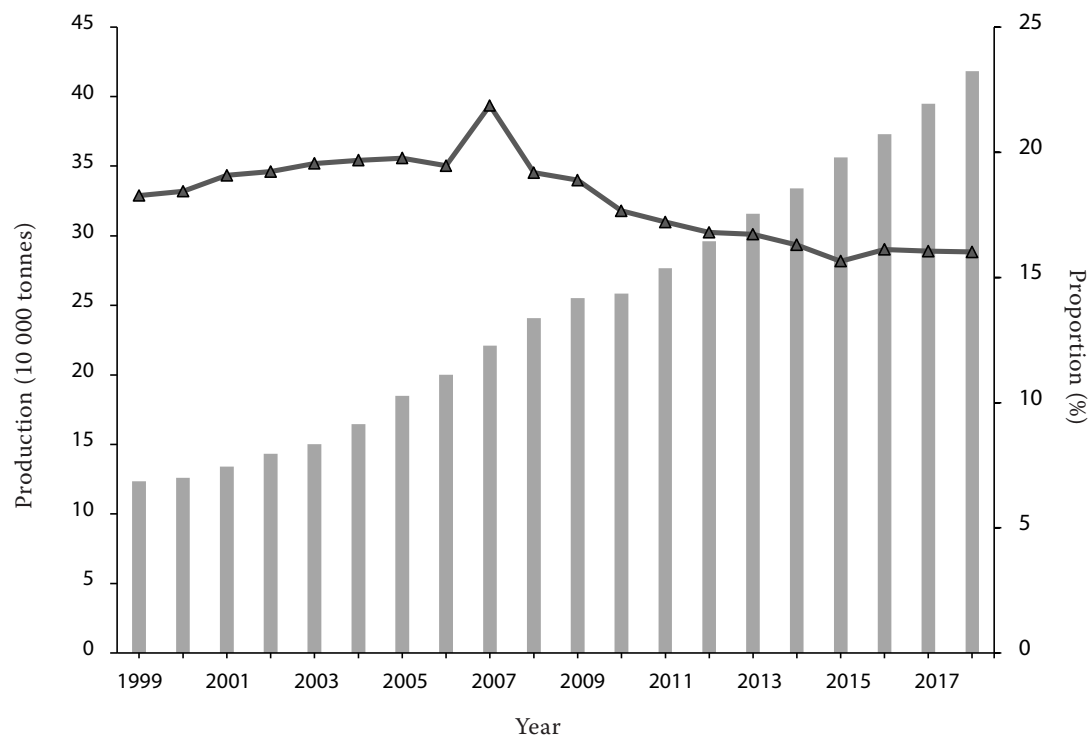


Figure S2. Trends in tea production in Fujian province (1999–2018)

Source: Own results based on data from Fujian Statistical Yearbook (2019)