

Linlin Fan

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PHD DISSERTATION: “The Impact of Food Geography on Consumer and Producer Welfare”

Expected Date of Completion: May 2018
Principal Advisor: Kathy Baylis
Other Committee Members: Craig Gundersen, Guillermo Marshall and Brenna Ellison

PRE-DOCTORAL STUDIES	DEGREE	DATE	FIELD
University of Illinois at Urbana-Champaign	M.S.	2015	Statistics
University of Illinois at Urbana-Champaign	M.S.	2012	Agricultural and Applied Economics
Renmin University of China	B.S.	2010	Trade Economics

FIELDS OF CONCENTRATION

Primary

Empirical Industrial Organization
Food Policy

Secondary

International Trade
Development Economics

PUBLICATIONS

1. Graham, J. L. Fan, E. Meadows, L. Hang, J. Partridge, S. Goates. 2017. “Addressing Malnutrition Across the Continuum of Care: Which Patients Are Likely to Receive Oral Nutritional Supplements?” *Journal of Ageing Research and Healthcare*, 1(3): 18-27.
2. Wei, J., L. Fan, Y. Zhang, J. Partridge, L. Claytor, S. Li, S. Sulo. 2017. “The Impact of Malnutrition on Health Outcomes and Healthcare Cost among Chinese Older Adults” *Chinese Journal of Geriatrics*, 38(8).
3. Zhang, Y., L. Fan, P. Chai, J. Partridge, L. Claytor, S. Li, S. Goates. 2017 “The Impact of Malnutrition on Outpatient and Inpatient Cost among Older Chinese Adults” *Chinese Health Economics*, Forthcoming.
4. Xu, Y. and L. Fan. 2017. “Diverse Friendship Networks and Heterogeneous Peer Effects on Adolescent Misbehaviors” *Education Economics*, Forthcoming.

WORKING PAPERS

1. “Access to Fruits and Vegetables and Consumer Welfare in Urban Food Deserts” (**Job Market Paper**)
2. “Agricultural Market Liberalization and Household Food Security in Rural China” with Kathy Baylis and Lia Nogueira, *Revise and Resubmit, American Journal of Agricultural Economics*
3. “Something Fishy in Seafood Trade? The Relation between Tariff and Non-Tariff Barriers” with Kathy Baylis, Lia Nogueira, and Kathryn Pace, *Revise and Resubmit, American Journal of Agricultural Economics*
4. “Does a Nutritious Diet Cost More in Food Deserts?” with Kathy Baylis, Craig Gundersen and Michele Ver Ploeg, *Revise and Resubmit, Agricultural Economics*

5. “Association between Malnutrition and Depression among Community-Dwelling Older Chinese Adults” with Junmin Wei, Yuhui Zhang, Shirley Li, Jamie Partridge, Ling Claytor and Suela Sulo, *Revise and Resubmit, Asia Pacific Journal of Public Health*

WORK IN PROGRESS

1. “What Happens When Walmart Comes to Food Deserts?”
2. “The Use of Food Pantries and Soup Kitchens by Low-Income Households in United States”

HONORS AND AWARDS

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| 2017 | Best Paper Award of Parenteral and Enteral Nutrition Society of Asia (PENSA) Annual Meeting |
| 2012/2015 | Henry Fellowship for PhD Students, University of Illinois |
| 2014 | Most Outstanding Second Year Paper Award, Dept. of ACE, University of Illinois |
| 2013 | Pass Ph.D. Core Examination with Distinction, Dept. of ACE, University of Illinois |
| 2012 | Most Outstanding Master Thesis Award, Dept. of ACE, University of Illinois |
| 2012 | Gamma Sigma Delta Honor Society (with GPA of 4.0) |

GRANTS

- USDA, Economic Research Services. “FoodAPS Geography Study.” 2012. PI-C. Gundersen. Research Assistant – L. Fan. \$654,632
- University of Illinois, Campus Research Board. “The Effects of Agricultural Commercialization on Household Food Security in Rural China.” PIs – K. Baylis, L. Fan and L. Nogueira. 2012. \$13,620.
- University of Illinois, Department of Agricultural and Consumer Economics Travel Grant. PI – L. Fan. 2016. \$600.
- University of Illinois, Graduate College Travel Grant. PI – L. Fan. 2017. \$300.

WORK EXPERIENCE

Health Economics and Outcomes Research (HEOR) Intern, Abbott Nutrition 2015-present

- Evaluate the patient characteristics at the initiation of Oral Nutrition Supplements (ONS) using long-term electronic medical records (EMR) from Geisinger Health System in the U.S.
- Study the impact of malnutrition on hospital costs, health outcomes and depression among community dwelling older Chinese adults based on China Health and Retirement Longitudinal Survey (CHARLS)
- Co-lead the Nutrition-focused Quality Improvement Program in Vietnam that promotes the use of ONS among malnourished hospital patients

Research Analyst, Center for Chinese Agricultural Policy, Chinese Academy of Sciences 2009-2010

- Co-led a nationwide project on evaluating the impact of a microfinance project in China on household welfare funded by Chinese Department of Agriculture
- Co-led a project evaluating the impact of consolidated supply chain in dairy sector on producer response and food safety control after the milk melamine scandal in China

TEACHING EXPERIENCE

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| 2015 | Teaching Assistant |
| | ACE-455 International Trade for Food and Agriculture (undergraduate and graduate) |
| 2016/2017 | Graduate Student Instructor |

REFeree SERVICES

Agricultural Economics, Applied Economic Perspectives and Policy

SELECTED CONFERENCE PRESENTATIONS

1. Wei, J., L. Fan, Y. Zhang, J. Partridge, L. Claytor, S. Li, S. Sulo. “The Impact of Malnutrition on Depression among Chinese Older Adults.”
European Society for Parenteral and Enteral Nutrition (**ESPEN**) Annual Meeting, The Hague, Netherlands, 09/2017
2. Fan L. “The Consumer Welfare Impact of Expanding Access to Fruits and Vegetables in Food Deserts.”
Agricultural and Applied Economics Association (**AAEA**) Annual Meeting, Chicago, IL, 08/2017
3. Fan L. “What Happens When Walmart Comes to Food Deserts?”
AAEA Annual Meeting, Chicago, IL, 08/2017
4. Zhang, Y., L. Fan, P. Chai, J. Partridge, L. Claytor, S. Li, S. Goates. “The Impact of Malnutrition on Outpatient and Inpatient Cost among Older Chinese Adults”
International Health Economics Association (**IHEA**) Annual Meeting, Boston, MA, 07/2017;
5. Wei, J., L. Fan, Y. Zhang, J. Partridge, L. Claytor, S. Li, S. Sulo. “The Impact of Malnutrition on Health Outcomes among Chinese Older Adults.”
IHEA Annual Meeting, Boston, MA, 07/2017
6. Fan, L., K. Baylis, C. Gundersen and M. Ver Ploeg “Does a Nutritious Diet Cost More in Food Deserts?”
Allied Social Sciences Associations (**ASSA**) Annual Meeting, Chicago, IL, 01/2017
7. Fan, L., C. Gundersen, M. Hake, K. Baylis, T.D. Dys, and T. Park “The Use of Food Pantries and Soup Kitchens by Low-Income Households,” **AAEA** Annual Meeting, Boston, MA, 08/2016
8. Graham, J. L. Fan, E. Meadows, L. Hang, J. Partridge, S. Goates. “Addressing Malnutrition Across the Continuum of Care: Which Patients Are Likely to Receive Oral Nutritional Supplements?”
International Society for Pharmacoeconomics and Outcomes Research (**ISPOR**) Annual Meeting, Washington D.C., 05/2016
9. Fan, L., K. Baylis and L. Nogueira. “Agricultural Market Liberalization and Household Food Security in Rural China.” **AAEA** Annual Meeting, Washington D.C. 08/2013

OTHER INFORMATION

Languages: English (Fluent), Chinese (Native)

Computer Skills: STATA, MATLAB, R, SAS, GAMS, GeoDa, ArcGIS and LaTeX

REFERENCES

Kathy Baylis

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Agricultural and Consumer Economics

University of Illinois at Urbana-Champaign

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Craig Gundersen

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Economics

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Assistant Professor

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Email: brennae@illinois.edu**JOB MARKET PAPER—EXECUTIVE SUMMARY***Access to Fruits and Vegetables and Consumer Welfare in Urban Food Deserts*

Low access to food retailers in poor communities, or the existence of so-called “food deserts,” is found to be associated with unhealthy eating and diet-related health problems. Government agencies have implemented various policies to expand access to fruits and vegetables in these food deserts. One concern with the effectiveness of these policies is their implicit assumption that demand for food stores is similar across food deserts and non-food deserts. In this paper, I provide empirical evidence that this assumption is not verified in practice, and I quantify key welfare implications of this fact. I estimate the effect of expanding food access for consumers living in food deserts when allowing for differences in demand between food desert and non-food desert consumers. I use detailed, geocoded, store sales and consumer demographic data to (1) estimate a discrete choice demand system for food stores with consumer heterogeneity, (2) quantify the welfare impact of expanding access to fruits and vegetables in food deserts, (3) compare this effect to that of a subsidy to fruits and vegetables prices in food deserts, and (4) simulate the welfare change of a food desert household facing non-food-desert levels of prices and store characteristics, and *vice-versa*. I find that prices are more important than the availability of fruits and vegetables and than store proximity for both food desert and non-food desert consumers. Expanding the availability of fruits and vegetables in the nearest stores of food deserts does not greatly change food-desert consumers’ store choices or enhance their welfare. In contrast, price subsidy programs have the potential to significantly improve consumer welfare in food deserts. Specifically a 10% fruits and vegetables price reduction generates an increase in consumer welfare by \$51 per household per year while the cost of the program is only \$25 per household per year.