

Xiang “Peter” Chen

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EMPLOYMENT

Assistant Professor (Tenure-Track) Department of Geography, University of Connecticut	2019 Fall – Storrs, CT
Assistant Professor (Tenure-Track) Department of Emergency Management, Arkansas Tech University	2014 – 2019 Russellville, AR

EDUCATION

Ph.D. Geography The Ohio State University Advisors: Mei-Po Kwan & Morton O’Kelly Dissertation: <i>Bringing Time into Measure of Food Access: Place vs. People</i>	2009 – 2014 Columbus, OH
M.M. Resource Science	2007 – 2009
B.S. Resource Science (GIS Track) Beijing Normal University	2003 – 2007 Beijing, China

RESEARCH INTERESTS

[G] GIS & Public Health; [E] Evacuation; [R] Remote Sensing

PUBLICATIONS

(*corresponding author, **Bold**: major contribution)

Peer-review Journal

- [G 28] 2019. Jia P, Liang L, Tan X, Chen J, **Chen X***. Potential effects of heat waves on the population dynamics of the dengue mosquito *Aedes albopictus*. *PLOS Neglected Tropical Diseases*, online first.
- [G 27] 2019. **Chen X***, Jia P. A comparative analysis of accessibility measures by the two-step floating catchment area (2SFCA) method. *International Journal of Geographical Information Science*, online first.
- [G 26] 2019. **Chen X***. Enhancing the two-step floating catchment area model for community food access mapping: Case of Supplemental Nutrition Assistance Program. *The Professional Geographer*, online first.
- [G 25] 2019. Wang D, Li Lu, Hu C, Li Q, Chen X, Huang P. A modified inverse distance weighting method for interpolation in open public places based on Wi-Fi probe data. *Journal of Advanced Transportation*, online first.
- [G 24] 2019. Han Z, Cui C, Miao C, Wang H, Chen X. Identifying spatial patterns of retail stores in road network structure. *Sustainability*, 11(17), 4539.
- [G 23] 2018. Zhang K, Chen X*, Zhang S, Wilson-Gray G. Towards a healthy ride: Locating public toilets in the Shanghai metro system. *Applied Spatial Analysis & Policy*, 11(2), 381–35.
- [E 22] 2018. **Chen X***, Frazier C, Manandhar R, Han Z, Jia P. Inequalities of nuclear risk communication within and beyond evacuation planning zone. *Applied Spatial Analysis & Policy*, online first.

- [R 21] 2018. **Chen X**, Wang D, Chen J, Wang C, Shen M. The mixed pixel effect in land surface phenology: A simulation study. *Remote Sensing of Environment*, 211, 388–44.
- [R 20] 2018. Chen S, Chen X, Chen X, Chen J, Cao X, Shen M, Yang W, Cui X. A novel cloud removal method based on IHOT and the cloud trajectories. *Remote Sensing*, 10(7).
- [G 19] 2017. **Chen X***. Take the edge off: A hybrid geographic food access measure. *Applied Geography*, 87, 149–59.
- [G 18] 2017. Jia P, **Chen X***, Chen J, Lu L, Liu Q, Tan X. How does the dengue vector mosquito *Aedes albopictus* respond to global warming? *Parasites & Vectors*, 10(140).
- [E 17] 2017. **Chen X***, Li Q. Modeling road network vulnerability for evacuees and first responders during no-notice evacuation. *Journal of Advanced Transportation*, doi: 10.1155/2017/6193127.
- [G 16] 2017. Xiao Y, Chen X, Li Q, Yu X, Chen J, Guo J. Exploring determinants of housing prices in Beijing: An enhanced hedonic regression with open access POI data. *International Journal of Geo-Information*, 6(11), 358.
- [R 15] 2017. Yang D, Chen J, Zhou Y, Chen X, Chen X, Cao X. Mapping plastic greenhouse with medium spatial resolution satellite data: Development of a new spectral index. *ISPRS Journal of Photogrammetry and Remote Sensing*, 128, 47–60.
- [G 14] 2016. **Chen X***, Clark J. Measuring space-time access to food retailers: A case of temporal access disparity in Franklin County, Ohio. *The Professional Geographer*, 68(2), 175–88.
- [G 13] 2016. Jia P, Lu L, **Chen X***, Chen J, Guo L, Yu X, Liu Q. A climate-driven mechanistic population model of *Aedes albopictus* with diapause. *Parasites & Vectors*, 9(1), 175.
- [R 12] 2016. Zhu W, Zhang D, Chen X, Zheng Z, Zhou X, Jiang T. A correction method for false topographic perception of remote sensing images based on an inverse topographic correction technique. *International Journal of Digital Earth*, 9(10), 1021–34.
- [G 11] 2015. **Chen X***, Kwan MP. Contextual uncertainties, human mobility, and perceived food environment: The uncertain geographic context problem in food access research. *American Journal of Public Health*, 105(9), 1734–7.
- [G 10] 2015. **Chen X***, Zhao B, Blackard E. Unveiling perceptions of food safety scandals in China: An exploratory study with search engine. *Global Media Journal*, Fall Special Issue.
- [G 9] 2015. Xu H, Li Q, Chen X, Chen J, Guo J, Wang Y. Logistical routing of park tours with waiting times: Case of Beijing Zoo. *Tourism Geographies*, 17(2), 208–22.
- [G 8] 2014. **Chen X***, Yang X. Does food environment influence food choices? A space-time analysis through “tweets”. *Applied Geography*, 51, 82–9.
- [G 7] 2013. **Chen X***, Clark J. Interactive three-dimensional geovisualization of space-time access to food. *Applied Geography*, 43, 81–6.
- [E 6] 2013. Chen Z, **Chen X** (co-first author), Li Q, Chen J. The temporal hierarchy of shelters: A hierarchical location model for earthquake-shelter planning. *International Journal of Geographical Information Science*, 27(8), 1612–30.
- [G 5] 2012. **Chen X***, Kwan MP. Choice set formation with multiple flexible activities under space-time constraints. *International Journal of Geographical Information Science*, 26(5), 941–61.
- [E 4] 2012. **Chen X**, Kwan MP, Li Q, Chen J. A model for evacuation risk assessment with consideration of pre-and-post disaster factors. *Computers, Environment and Urban Systems*, 36(3), 207–17.
- [E 3] 2010. Li Q, Chen X, Chen J, Tang Q. An evacuation risk assessment model for emergency traffic with consideration of urban hazard installations. *Chinese Science Bulletin*, 55(10), 1000–6.

Peer-review Journal in Chinese

- [G 2] 2009. **Chen X**, Li Q, Wang Y, Chen J, Tang Q. The Critical Cluster Model and its application for measuring accessibility of public transit networks. *Acta Geographica Sinica*, 64(16), 693–700.

- [E 1] 2009. Li Q, Chen X, Chen J, Tang Q. Modeling evacuation risk by considering potential urban hazards. *Chinese Science Bulletin*, 54(16), 2431–6.

Newsletter

2014. **Chen X**. Analyzing tweets shows that people living closer to grocery stores make healthier food choices. *USApp*, The London School of Economics and Political Science, June 13th.

Peer-review Conference Proceeding/Extended Abstract

2019. **Chen X**, Jia P. A systematic evaluation of accessibility measures by the two-step floating catchment area (2SFCA) method. Extended abstract for *International Cartographic Conference 2019*, Tokyo, Japan, July 15–20.
2019. Aulgur J, Hackerott C, Chen X. Nonprofit preparedness in the New Madrid Seismic Zone: Addressing the four dimensions of community resilience. Full paper for *77th Annual Midwest Political Science Association Conference*, Chicago, IL, April 4–7.
2017. **Chen X**. The edge effect in food access research: evidence, methods, and applications. Extended abstract for *The 25rd International Conference on Geoinformatics*, Buffalo, NY, August 2–4.
2015. **Chen X**. The temporality of food access: A GIS-based geographic analysis, visualization, and implications for social justice. Extended abstract for *The 23rd International Conference on Geoinformatics*, Wuhan, China, June 19–21.
2015. **Chen X**, Blackard, E, Zhao, B. What do social media tell us about food security in China? Extended abstract for *International Conference on Location-Based Social Media Data*, Athens, GA, March 13–14.
2011. **Chen X**, Kwan MP. Modeling trip chains through a time-geographic perspective. Extended abstract for *16th International Conference of Hong Kong Society for Transportation Studies*. Hong Kong, China, December 17–20.

HONORS & SCHOLARSHIPS

2019. International Cartographic Conference 2019 Travel Scholarship.
2019. International Cartographic Conference 2019 Organizing Committee Travel Award.
2018. Student Undergraduate Research Fellowship (SURF). Arkansas Department of Higher Education.
2017. Agro-Geoinformatics 2017 Travel Award.
2016. Student Undergraduate Research Fellowship (SURF). Arkansas Department of Higher Education.
2015. Jacques May Thesis Prize. Health and Medical Geography Specialty Group of American Association of Geographers (AAG).
2013. *Fenburr* Travel Scholarship, Geography, The Ohio State University.
2013. International Cartographic Conference 2013 Travel Scholarship.
2012. *Robert Max Thomas* Fellowship, Geography, The Ohio State University (\$4k).
2010. College of Social and Behavioral Sciences Fellowship, The Ohio State University (\$9.8k).
2009. Distinguished University Fellowship, The Ohio State University (\$20k).

TEACHING

University of Connecticut

(Full-time faculty)

GEOG 4516 Fundamentals of Spatial Database Systems

Arkansas Tech University

(Full-time faculty) [Course evaluation out of 5.0] @ has online session

EAM 1003 Living in a Hazardous Environment [4.7] @

EAM 4023 Intro GIS [4.8] @
EAM 4033 Undergraduate Research Methods & Analysis [4.5] @
EAM 4993 Advanced GIS [4.9]
EMHS 6043 Contemporary Issues in Emergency Management [4.8]
EMHS 6103 Graduate Research Design & Methods [4.4] @
EMHS 6123 Applied Data Analysis (Statistics) [3.5] @
EMHS 6193 International Emergency Management [3.9] @
EMHS 6513 Graduate Intro GIS [4.9] @
EMHS 6543 Graduate Advanced GIS [4.9] @

The Ohio State University

(Full Instructor)

Geography 5220 Fundamentals of GIS [4.1]
Geography 3300 Transportation Security [4.5]
Geography 5222 GIS Applications in Social Science and Business [4.3]

(Teaching Assistant)

Geography 200 World Regional Geography
Geography 500 Climatology
Geography 686 GIS in Social Science and Business Research
Geography 3300 Transportation Security
Geography 5300 Geography of Transportation

Master student advisory

Charles Canan (thesis chair)

Joe Buhajla, Matthew Foster, Brian Kendall, Tina Phouthavong (thesis committee)

PROFESSIONAL SERVICE

Academic

Chair. The International Association of Chinese Professionals in Geographic Information Systems (CPGIS) Student Paper Competition Committee

Board member. AAG Geographies of Food and Agriculture Specialty Group (2017–19; 2014–16)
AAG Health and Medical Geography Specialty Group (2016–18)

Reviewer. *Applied Geography* (x11)

International Journal of Environmental Research and Public Health (x11)

Annals of the Association of American Geographers (x7)

International Journal of Geographical Information Science (x5)

Computers, Environment and Urban Systems (x4) *Food Safety* (x4)

International Journal of Geo-Information (x4) *Journal of Sustainability* (x4)

International Journal of Digital Earth (x3)

Southeastern Geographer (x2) *Transactions in GIS* (x2) *Social Sciences* (x2)

American Journal of Preventive Medicine

American Journal of Public Health *Urban Geography*

Professional Geographer *Public Health* *Public Health Nutrition*

Applied Spatial Analysis & Policy *Urban Geography* *Journal of Modeling Choice*

Northeastern Geographer *Future Internet* *GeoJournal*

Transportation *Transportation Research Records*

Personal: Professional Cartographer

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2017. Wasserstrom, R. “Yo fuí vendida”: Reconsidering peonage and genocide in Western Amazonia. *Advances in Anthropology*, 7(2).
2014. Lead cartographer for Pelotonia Fundraising for Cancer Research, Columbus, OH.
2013. Southgate, D., & Roberts, L. *Globalized fruit, local entrepreneurs: How one banana-exporting country achieved worldwide reach*. Philadelphia, PA: University of Pennsylvania Press.

PRESENTATIONS

(*invited talk)

2019. A systematic evaluation of accessibility measures by the two-step floating catchment area (2SFCA) method. *International Cartographic Conference 2019*, Tokyo, Japan.
- *2018. Exploring urban foodscapes. Department of Land Surveying and Geo-Informatics at the Hong Kong Polytechnic University, Hong Kong, China.
2018. Evaluating SNAP food retailer access by an improved 2SFCA method. *26th International Conference on Geoinformatics 2018*, Kunming, China.
2018. The Inequality of SNAP Retailer Access by the 2SFCA method. *American Association of Geographers Annual Meeting 2018*. New Orleans, LA.
2017. An enhanced two-step floating catchment area method for measuring food accessibility. *Agro-Geoinformatics 2017*, Fairfax, VA.
2017. The edge effect in food access research: evidence, methods, and applications. *25th International Conference on Geoinformatics*, Buffalo, NY.
- *2017. An enhanced two-step floating catchment area method for food accessibility. *The Geographical Society of China Annual Meeting (Northeast China)*, Harbin, China.
- *2017. An enhanced two-step floating catchment area method for food accessibility. School of Geographical Sciences, Northeast Normal University, Beijing, China.
2017. Take the edge off: A hybrid food access measure. *American Association of Geographers Annual Meeting 2017*. Boston, MA.
2016. Do poor neighborhoods have limited temporal access to healthy foods? Case of Franklin County, Ohio. *American Association of Geographers Annual Meeting 2016*. San Francisco, CA.
- *2015. A network-based model to assess evacuation risk. *Institute of Policy and Management, Chinese Academy of Sciences*. Beijing, China
2015. The temporality of food access: A GIS-based geographic analysis, visualization, and implications for social justice. *The 23rd International Conference on Geoinformatics*, Wuhan, China.
2015. Food access beyond space: Temporal food access disparity in Franklin County, Ohio. *American Association of Geographers Annual Meeting 2015*. Chicago, IL.
- *2015. Disaster preparedness: Computer simulations. *EAST Conference 2015*. Hot Springs, AR.
2015. What do social media tell us about food security in China? *International Conference on Location-Based Social Media Data*. Athens, GA.
2014. Does food environment influence food choices? A space-time analysis through “tweets”. *American Association of Geographers Annual Meeting 2014*. Tampa, FL.
- *2013. Space-time access to food: A place-based and an individual-based perspective. *Beijing Institute of City Planning*, Beijing, China.
2012. A hierarchical location model for earthquake shelter planning. *35th Applied Geography Conference*. Minneapolis, MN.
2012. Multiple flexible activities under space-time constraints. *American Association of Geographers Annual Meeting 2012*. New York City, NY.
2011. Modeling trip chains through a time-geographic perspective. *16th International Conference of Hong Kong Society for Transportation Studies*. Hong Kong, China.
2011. A framework for modeling trip chains with multiple flexible activities. *The Sixth Workshop on Spatial Behavior Research and Planning*. Guangzhou, China.

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2011. The formation of choice set for multiple flexible activities under space-time constraints. *The 19th International Conference on GeoInformatics*. Shanghai, China.
2011. The formation of choice set for multiple flexible activities under space-time constraints. *American Association of Geographers Annual Meeting 2011*. Seattle, WA.
2010. Highlighting the aftermath evacuation risk: A focus on spatial impact of disaster and evacuee route choice. *American Association of Geographers Annual Meeting 2010*. Washington DC.

Updated as of 8/28/2019