

FCE

FCE Distinguished Chair Professor Inaugural Lecture

With Attendance Certificate

Date: 17 Nov 2017 (Friday)
Time: 6:00p.m.-7:00p.m.
Venue: Room FJ303,
The Hong Kong Polytechnic University



Spatiotemporal Analytics for Big Data: Application in Human Movement and Health Research

Abstract

Human mobility is an essential element of people's spatiotemporal experiences, and these complex experiences cannot be fully understood by just looking at where people live. With the advent of new geospatial technologies like sensing and GPS tracking, vast amount of complex spatiotemporal data can be collected. However, human behaviors revealed by these data have not been fully understood. In this presentation, I discuss new methods developed for this purpose, and draw upon recent conceptual and methodological developments to examine how a perspective that integrates the spatial and temporal dimensions and takes human mobility into account can help identify the relevant spatiotemporal context that influences people's health behaviors or outcomes. Using examples from my recent projects, I discuss how the collection and analysis of high-resolution space-time data enabled by advanced geospatial and mobile technologies can provide new insights on the relationships between people's health behaviors and the complex spatiotemporal dynamics of environmental influences.

Prof. Mei Po Kwan

Professor
University of Illinois at Urbana-Champaign
USA
Distinguished Chair Professor of Geography and
Geographic Information Science
The Hong Kong Polytechnic University, Hong Kong

About the Speaker

Mei Po Kwan is a Professor of Geography and Geographic Information Science at the University of Illinois at Urbana-Champaign and Chair of the International Geospatial Health Research Network. She received her Ph.D. from the University of California at Santa Barbara. She is currently editor of Annals of the American Association of Geographers and the book series entitled SAGE Advances in Geographic Information Science and Technology.

Kwan has received many prestigious honors and awards, including the Distinguished Scholarship Honors (2011) and the E. Willard and Ruby S. Miller Award (2016) from the American Association of Geographers (AAG), the Alan Hay Award in Transport Geography from the Transport Geography Research Group of the Royal Geographical Society with the Institute of British Geographers (RGS-IBG) (2017), the Distinguished Scholar Award, International Association of Chinese Professionals in Geographic Information Sciences (CPGIS) (2017), the University Consortium for Geographic Information Science (UCGIS) Research Award (2005), the Edward L. Ullman Award from the AAG Transportation Geography Specialty Group (2005), and the Melinda S. Meade Distinguished Scholarship Award (2016) from the AAG Health and Medical Geography Specialty Group. She was recognized in 2009 as a fellow of the American Association for the Advancement of Science (AAAS). In 2016 she was named a fellow by the John Simon Guggenheim Memorial Foundation.

Kwan has received about US\$24 million support as PI or co-PI from sources including the U.S. National Institutes of Health, the U.S. National Science Foundation, and the U.S. Department of Transportation. She has published 32 edited or co-edited volumes and 180 peer-reviewed journal articles and book chapters. She has delivered over 190 keynote addresses and invited lectures in 18 countries. She has served as an advisory panelist or reviewer of grant proposals for 14 U.S. National Science Foundation programs, U.S. National Institutes of Health, European Research Council, Natural Sciences and Engineering Research Council of Canada, Australian Research Council, Austrian Science Fund, Research Foundation of Flanders, Royal Geographical Society (U.K.), Research Grants Council of Hong Kong, and Swiss National Science Foundation.

Kwan's research interests include environmental health, sustainable cities, human mobility, urban/social issues in cities, and GIScience. She has made ground-breaking contributions to these areas. Her recent collaborative projects include the studies of a cyberinfrastructure for scalable spatiotemporal Data Analytics, health risks of female sex workers, adolescent and adult participation in high risk drug use, individual exposure to air pollution, and environmental influences on physical activity.

All Interested Are Welcome

 HK PolyU - Faculty of Construction and Environment 

Please register online at
http://www.polyu.edu.hk/fce/events/80_lectures/prof_kwan/
For enquiries, please contact Miss Ally Lo at
Tel: 3400-3877 | Email: ally.lo@polyu.edu.hk



Registration

- Free of charge
- An attendance certificate will be issued to each registered participant.
- Priority will be given to current members of the Alumni Associations under the Faculty of Construction and Environment. Please send a copy of your membership card to ally.lo@polyu.edu.hk for verification.
- Applicants (including members of Alumni Associations) with confirmed registration who fail to turn up may have a lower priority in the registration for future Faculty events.

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1. Please note that both the start and the end of the lecture may be delayed (including the Q & A time). The Faculty will only distribute certificates to participants after the lecture is over as signified by the presentation of a souvenir to the speaker. Certificates of attendance will only be provided to participants if they stay for the whole lecture.
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