



## AAG Annual Meeting

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### Paper Session:

#### 5471 Time Geography: New Research Directions, Developments, and Applications (III)

is scheduled on Saturday, 4/12/2014, from 2:00 PM - 3:40 PM in Meeting Room 4, Marriott, Second Floor

#### Sponsorship(s):

Transportation Geography Specialty Group  
Spatial Analysis and Modeling Specialty Group  
Geographic Information Science and Systems Specialty Group

#### Organizer(s):

[Hongbo Yu](#) - Oklahoma State University  
[Shih-Lung Shaw](#) - University of Tennessee  
[Kajsa Ellegård](#) - Linköping University, Technology and social change

#### Chair(s):

[Hongbo Yu](#) - Oklahoma State University

#### Abstract(s):

**2:00 PM Author(s):** \*Giulia Montanari - Karlsruhe Institute of Technology, Institut für Geographie und Geoökologie

Abstract Title: *Space-time paths as a tool to analyze narrative interviews - A contribution to a qualitative time-geographic methodology*

**2:20 PM Author(s):** \*Pierre Hallot - The University of Iowa  
Kathleen Stewart - The University of Iowa

Abstract Title: *A Spatiotemporal Analysis of Membership: Formalizing the Space-Time Elements of Connection for Groups*

**2:40 PM Author(s):** \*Stella Todd, Ph.D - MSUDenver  
\*Claire Hay - Metropolitan State University of Denver

Abstract Title: *Time-space Visualization of Automobile Travel Time To Various Destinations from a Starting City*

**3:00 PM Author(s):** \*Atsushi Nara - University of Oklahoma  
May Yuan - University of Oklahoma  
Marguerite S Keesee - University of Oklahoma  
William H Greenwood - University of Oklahoma  
Meredith P Mouser - University of Oklahoma  
Grant T Floyd - University of Oklahoma

Abstract Title: *Discovering activity space from GPS tracks*

**3:20 PM Author(s):** \*Hongbo Yu - Oklahoma State University  
Leonard S. Bombom - Oklahoma State University

Abstract Title: *A Time-Geographic Approach to Measuring Fragmentation in a Daily Activity Schedule*

**Session Description:** Recently there has been a reviving and growing interest in time geography in the research community. Endorsing an integrative space-time system to investigate spatial and temporal processes, time geography offers an elegant framework to study the dynamics of the interactions among individual agents and between the agents and their surrounding environment. Recent research progress has pushed forward the frontier of time geography in both theoretical and application aspects. The increasing availability of individual-based spatio-temporal data also opens up opportunities for new research directions, developments, and applications in time geography. The time geography sessions offer a forum for researchers to share their innovative ideas of advancing time geography. A wide range of study topics that address conceptual, theoretical, technical, or empirical aspects of time geography are covered in these sessions, including (but not limited to):

- extending the time-geographic framework to study activities and interactions in a hybrid environment of physical and virtual spaces,
- developing probabilistic models for time geography,
- creating computational models and representations of time-geographic concepts,
- using time-geographic framework for visual analytics,
- presenting further elaborations on time-geographic concepts,
- applying the framework to support a variety of studies, such as travel behaviors, activity patterns, accessibility analysis, social equity, location based services, animal ecology, public health, regional planning, etc.

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