Wei Yang

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May 2016

EDUCATION

2015   Ph.D. in Geography
        Department of Geography, University of Georgia, USA
        Dissertation: "GIS analysis of depression using location-based social media data"

2011   M.S. in Geographic Information Systems
        Department of Geology and Geography, Eastern Michigan University, USA

2009   B.S. in Software Engineering
        International School of Software, Wuhan University, China

PROFESSIONAL APPOINTMENTS

2015-   Lecturer in Spatial Sciences
        Spatial Sciences Institute, University of Southern California, USA

PUBLICATIONS

Yang, W. and L. Mu. (2015). GIS analysis of depression among Twitter users. *Applied Geography*, 60, 217-223.

Yang, W., L. Mu, and Y. Shen. (2015). Effect of climate and seasonality on depressed mood among Twitter users. *Applied Geography*, 63, 184-191.
Reported by The London School of Economics and Political, http://bit.ly/1Z6OykH.

Yang, W., L. Mu and Y. Shen (submitted). Temporal analysis of depression among Twitter users.

AWARDS

2013-2015   University of Georgia Doctoral Student Travel Grants
2011-2015   University of Georgia Teaching Assistantship
2009-2011   Eastern Michigan University Research Assistantship

INVITED TALKS

2016   Yang, W. GIS analysis of depression among Twitter users.
        University of Colorado Colorado Springs, Colorado Springs, CO. May 2, 2016.

2016   Yang, W. GIS and big data for health geography.
        Kutztown University of Pennsylvania, Kutztown, PA. March 17, 2016.

2016   Yang, W. Enhanced GIS with big data to build smart cities.
        City and Regional Planning, Ohio State University, Columbus, OH. Feb.4, 2016.

2016   Yang, W. GIS analysis of depression among Twitter users.
        Department of Geography, Michigan State University, Lansing, MI. Feb.2, 2016.

2015   Yang, W. GIS analysis of geographically distributed health issues using
        location-based social media data.
        Washington College, Chestertown, MD. March 3, 2015.

2015   Yang, W. GIS analysis of depression among Twitter users.
        Ball State University, Muncie, IN. February 13, 2015.

CONFERENCE PARTICIPATION

Oral Presentations

2016   Yang, W. Temporal analysis of depression among Twitter users. Big Data Day LA
        2016. Los Angeles, CA. July 9, 2016.

2016   Yang, W. Effect of climate and seasonality on depressed mood on Twitter.
        International Geography and Urban Health Symposium, San Francisca, CA.
        April 1-2, 2016.

2016   Yang, W. Effect of climate and seasonality on depressed mood on Twitter.
        AAG Annual Meeting, San Francisco, CA. March 29-April 2, 2016.

2015   Yang, W. Effect of climate and seasonality on depressed mood on Twitter.
        APCG Annual Conference, Palm Springs, CA. October 21-24, 2015.

2015   Yang, W. GIS analysis of depression among Twitter users.
        AAG Annual Meeting, Chicago, IL. April 21-25, 2015.

2015   Yang, W. Effect of climate and seasonality on depressed mood on Twitter.
        International Conference on Location-Based Social Media Data, Athens, GA.
        March 13-14, 2015.

2014   Yang, W. GIS analysis of depression among Twitter users.
        SEDAAG Annual Meeting, Athens, GA. November 24-25, 2014.

2014   Yang, W. GIS analysis of depression among Twitter users.
        Applied Geography Conference, Atlanta, GA. October 15-17, 2014.

2013   Yang, W. Impact from extreme heat during second trimester and maternal factors
        on low birth weight in Georgia.
        SEDAAG Annual Meeting, Roanoke, VA. November 24-26, 2013.

2012   Yang, W. Association between socioeconomic environment status and provision of
        bystander cardiopulmonary resuscitation in Columbus, Ohio.
        CDC/ATSDR GIS Day, Atlanta, GA. November 14, 2013.

Posters

2015   Yang, W. GIS analysis of depression among Twitter users.
Big Data Challenges in Life Sciences, Georgia, GA. October 12, 2015.

CAMPUS TALKS

2016   Yang, W. GIS analysis of depression among Twitter users. Brown Bag Seminars,
Spatial Sciences Institute, University of Southern California. April 8, 2016.

TEACHING EXPERIENCE

Lecturer in Spatial Sciences, University of Southern California

Spatial Computing (face to face teaching, graduate level)

GIS Programming and Customization (online teaching, graduate level)

Concepts for Spatial Thinking (online teaching, graduate level)

Spatial Database (online teaching, graduate level)

Web GIS (online teaching, graduate level)

Lab Instructor, University of Georgia

Introduction to Geographic Information Science

Advanced Geographic Information Science

GIS programming in Python

Cartography and Graphics

Teaching Assistant, Eastern Michigan University

Geodatabase and Web Mapping

Spatial Statistics

RESEARCH EXPERINCE

An advanced text mining techniques – nonnegative matrix factorization, is coupled with geospatial methods and statistical methods to detect depressive Twitter users in the U.S. with more than 600 million tweets. We detect spatiotemporal patterns of depression at county level. We then use socioeconomic risk factors and local climate risk factors to explain the patterns.

SERVICE TO PROFESSION

Journal Reviewer

Peer-reviewed Journal: Journal of Applied Geography (2016 – present)

Peer-reviewed Journal: Transactions in GIS (2015 – present)

Conference Reviewer

Peer-reviewed Conferences: XXIII ISPRS Congress (2016)

Conference Organization

Chair, Paper Session, "GIS for Health and the Environment using Social Media and Crowdsourcing Data", AAG Annual Meeting 2016.

Organizer, Panel Session, "Teaching Web and Mobile GIS", AAG Annual Meeting 2016.

Organizer, International Conference on Location-Based Social Media Data 2015.

UNIVERSITY SERVICE
Committee Member, University of Southern California (2015 – present)
Supervise graduate students in M.S. in Geographic Information Science and Technology program, College of Letters, Arts, & Sciences.

LANGUAGES
English (fluent), Chinese (native)

PROFESSIONAL MEMBERSHIPS
Associate of Pacific Coast Geographers (2015 – present)
Associate of American Geographers (2013 – present)
Southeastern Division of the Associate of American Geographers (2013 – 2015)
International Association of Chinese Professionals in Geographic Information Science (2014 – present)

REFERENCES
Lan Mu
Associate Professor
Department of Geography
The University of Georgia.
Geog-Geol Bldg, 210 Field Street, Room103, Athens, GA, 30602.
mulan@uga.edu
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Marguerite Madden
Professor in Department of Geography
The University of Georgia.
Geog-Geol Bldg, 210 Field Street, Room209, Athens, GA, 30602.
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(706) 542-2379

Ye Shen
Assistant Professor in Epidemiology and Biostatistics
The University of Georgia.
101 Buck Road, B.S. Miller Hall, Room 211, Athens, GA, 30602.
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