

Wen-Ching Chuang

CURRICULUM VITAE

Ph.D Program

School of Sustainability, Arizona State University

E-mail: wenchingchuang@gmail.com, wen-ching.chuang@asu.edu

Engaged Areas of Interest

- Urban studies on linkages of climate change, urban morphology and human health vulnerability
- Remote sensing applications of urban regions
- Objected-based and pixel-based approach for land cover classifications
- Climate change adaptation policy analysis

Education

- Ph.D Student in Sustainability (2010). Arizona State University.
- Master of Public Policy (2007). Gerald R. Ford School of Public Policy, the University of Michigan
- M.A in Journalism (2003). National Taiwan University (NTU), Taipei, Taiwan
- B.A in Journalism (2001). Shih Hsin University (SHU), Taipei, Taiwan

Research Skills

- Object-based analysis of remotely sensed data by eCognition
- Raster data analysis on ERDAS Imagine, and ENVI
- ArcGIS software package
- Vulnerability analysis using census tract data

Experience

- Graduate Research Assistant
National Center of Excellence on SMART Innovations for Urban Climate and Energy
Arizona State University
2007- Current
- Intern
Department of International Cooperation
Taiwan Foundation for Democracy, Taipei, Taiwan
May 2006-Aug. 2006
- Research Assistant
Department of Public Policy and Management
Shih Hsin University, Taipei, Taiwan
Feb. 2005-Jul. 2005
- Journalist in Banking & Finance News Department
Commercial Times in China Times Group, Taipei, Taiwan
Nov. 2003-Aug. 2004
- Volunteer
Ken Ting National Park, Pingtung, Taiwan
July 1999-July 2000

- Editor in Chief
Shih Hsin University Newsworld, Taipei, Taiwan
1999-2000

Peer Reviewed Publication

- J.S. Golden, W. Chuang, and Stefanov W.(2007). **An Expert System Approach to Enhance Land Cover Parameterizations for Modeling Urban Climate and Biocomplexity Systems**. Accepted by the *Journal of Earth Interactions* in January, 2009. In press.
- W. Chuang, J.S Golden, D.A Hartz, and C. Sister (2009). **Urban Morphology and Human Health Vulnerability: An Empirical Study of Heat Vulnerability in Chicago**. Plan to submit to *the Journal of Environmental Science & Policy* by June 2009.
- D.A. Hartz, J.S. Golden, C. Sister, W. Chuang, A.J. Brazel (2009). **A Biometeorology Study of Heat Health Incidents in Chicago, IL**. Submitted to *International Journal of Biometeorology* in April, 2009.
- C. Sister, C. Boone, J. S. Golden, D. A. Hartz, and W. Chuang. **An examination of place-based socio-economic risk factors for heat morbidity in Chicago, Illinois**. Submitted to *Health and Place* in April, 2009.

Publication Plan for 2009-2010

- W. Chow, W. Chuang, and P. Gober (2009). **Vulnerability to Extreme Heat in Metro Phoenix: Spatial, Temporal and Demographic Dimensions**. Plan to submit to *The Professional Geographer* by September, 2009.
- W. Chuang, S.W. Myint, and J. S. Golden (2009). **Modeling and predicting heat-health vulnerability using data derived from remote sensing: A case study of Chandler, Arizona**.

Conference Poster/Paper Presentations

- W. Chuang, and J.S. Golden (2007). **An Object Based Approach for Urban Land Cover Classifications of Engineered Surfaces**. 1st Climate Change & Human Health Vulnerability Conference (US EPA, US CDC, NOAA and ASU). November 14-16,2007. Tempe, Arizona
- W. Chuang and J.S. Golden (2008). **An Object Based Approach for Urban Land Cover Classifications of Engineered Surfaces**. GELSS Symposium at Arizona State University. February, 1st 2008. Tempe, Arizona.
- W. Chuang and R. Aggarwal(2008). **Governance of Environmental Impacts of High-Tech Industry in Developing Countries: Top down versus Bottom-up Approaches**. Science & Technology in Society: An International, Interdisciplinary Graduate Student Conference, April 5-6, 2008 Washington DC
- W. Chuang, C. Sister, D. A. Hartz, and J. Golden (2009). **The relationship between urban morphology and heat vulnerability in the City of Chicago**. American Meteorological Society 89th Annual Meeting. January 10-15, 2009. Phoenix, Arizona
- D. A. Hartz, W. Chuang, C. Sister, and J. S. Golden (2009). **Climate linkages to heat related emergency (911) calls in Chicago, Illinois 2003–2006**. American Meteorological Society 89th Annual Meeting. January 10-15, 2009. Phoenix, Arizona
- C. E. Sister, C. G. Boone, J. Golden, D. Hartz, and W. C. Chuang (2009). **Mapping social vulnerability to**

heat wave in Chicago. American Meteorological Society 89th Annual Meeting. January 10-15, 2009. Phoenix, Arizona.

- W. Chuang, S.W. Myint, and J. S. Golden (2009). **Modeling and predicting heat-health vulnerability using data derived from remote sensing: A case study of Chandler, Arizona.** The Association of American Geographers (AAG) 2009 Annual Meeting March 22- March 27, 2009. Las Vegas, Nevada
- W. Chow and W. Chuang (2009). **Vulnerability to Extreme Heat in Metro Phoenix: Spatial, Temporal and Demographic Dimensions.** The Association of American Geographers (AAG) 2009 Annual Meeting March 22- March 27, 2009. Las Vegas, Nevada.
- W. Chuang, S.W. Myint, and J.S Golden (2009). **Modeling and predicting heat-health vulnerability using data derived from remote sensing: A case study of Chandler, Arizona.** The Arizona-Nevada Academy of Science 53rd Annual Meeting. April 4th, 2009. Tucson, Arizona.

Academic/Professional Affiliations

Student member of Association of American Geographers (AAG), American Meteorological Society (AMS), and the Arizona-Nevada Academy of Science (ANAS).

Honors

- 2007 Sustainable Energy Fellowship
- 2005-2007 Gerald R. Ford School of Public Policy Alumni Fellowship, the University of Michigan
- 2002 Wang Tih-Wu Journalism Scholarship, the United Daily News Group.