

## **Biographical Sketch: Chandana Mitra**

Assistant Professor

Department of Geology and Geography, Auburn University

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### **A. Professional Preparation**

**Ph.D.**, Geography, 2011, University of Georgia, Georgia, USA

**M.A.**, Geography, 1994, University of Calcutta, India

**B.A.**, Geography, 1992, University of Calcutta, India

### **B. Appointment**

8/2011-present - Assistant Professor, Department of Geology & Geography, Auburn U.

8/2005-5/2011 - Teaching Assistant & Research Assistant, University of Georgia

### **C. Most Relevant Publications/ abstracts (\* student contribution)**

\* Li, X., **Mitra, C.**, Marzen, L., and Yang, Q. 2014. Spatial and Temporal Patterns of Wetland Cover changes in East Kolkata Wetlands, India from 1972 to 2011. *International Journal of Applied Geospatial Research* (Accepted)

\* Hug, A., **Mitra, C.**, Li, Y., and Marzen, L. 2013. The Relationship between Land Cover and Temperature in the Auburn– Opelika, Alabama Urban Area. *Papers of the Applied Geography*. 36: 316-323.

**Mitra, C.**, M. Shepherd and T. Jordan, 2012. “On the relationship between the pre-monsoonal rainfall climatology and urban land cover dynamics in Kolkata city, India”. *International Journal of Climatology*. 32, 9, 1443-1454.

**Mitra, C.** 2011. The dynamics of urban growth in Kolkata, India and potential impacts on pre-monsoon precipitation. In *Facets of Social Geography: International and Indian Perspectives*. A.K. Dutt, V. Wadhwa, B. Thakur, and F. Costa (eds.). New Delhi: Cambridge University Press. Pp 541-555.

Mahmood, R., R. Pielke Sr., K. Hubbard, D. Niyogi, G. Bonan, P. Lawrence, B. Baker, R. McNider, C. McAlpine, A. Etter, S. Gameda, B. Qian, A. Carleton, A.B.-Przekurat, T. Chase, A. Quintanar, J. Adegoke, S. Vezhapparambu, G. Conner, S. Asefi, E. Sertel, D. Legates, Y. Wu, R. Hale, O. Frauenfeld, A. Watts, M. Shepherd, **C. Mitra**, V. Anantharajan, S. Fall, R. Lund, A. Nordfelt, P. Blanken, J. Du, H. Chang, R. Leeper, U. Nair, S. Dobler, R. Deo, and J. Syjtus, 2008: “Impacts of land use land cover change on climate and future research priorities”. *Bulletin of the American Meteorological Society*, 91, 37–46.

### **Other significant products (\* student contribution)**

\*Xia Li, **Mitra. C.** ‘Decreasing wetland areas in Kolkata, India from 1972 to 2011 as detected by object-based classification of Landsat imagery’. Association of American Geographers Conference, Tampa. (April 2014)

**Mitra. C.**, Lee. MK., Percival. E., Thomas A., Lucy T., Elizabeth Hickman. E., Cox. J.,

Chaudhury. S. R., Rodger. C. 'Bringing Global Climate Change Education (GCCE) to Alabama Middle and High School Classrooms' American Meteorological Society Conference, Atlanta. (Feb 2014)

\* Rahman, M., **Mitra, C.**, Marzen, L. and Li, Y. 2013. Urban Expansion and Environmental Parameters--A Case Study of Huntsville, Alabama. *Papers in Applied Geography*, 36,458-466.

Shepherd, J.M., T. Anderson, L. Bounoua, A. Horst, **C. Mitra**, and C. Strother, 2013: Urban Climate Archipelagos: A new framework for urban-climate interactions. *IEEE Earthzine*, published online at <http://www.earthzine.org/2013/11/29/urban-climate-archipelagos-a-new-framework-for-urban-impacts-on-climate/>. (Posted on November 29th, 2013)

#### **D. Synergistic Work and Awards**

**Elected as 'Co-chair of South Asia'**, Asian Geography Specialty Group, American Association of Geographers (AAG) for 2015-2017 terms (December 2014, effective in 2015).

**Elected member of 'Bureau of Urban Environment'**, American Meteorological Society (AMS). 3 year term. (December 2014, effective in 2015)

**Invited to join 'Climate Voices' – Science Speakers Network** a new climate communications initiative of University for Atmospheric Research and the United Nations Foundation. May 2014

**Interviewed on public media on climate change** – e-newspaper (al.com) and radio (WVAS Radio News)

**Organized and participated in 17 paper sessions and 4 panel sessions** at the AAG Annual Conference on various topics of urban climate (2008, 2009, 2010, 2012, 2013, 2014, 2015).

#### **E. Collaborators & Other Affiliations**

##### **Collaborators**

Faisal Hossain (Tennessee Tech University), Hanqin Tian (Auburn University, AU), Kelly Alley (AU), Li Dong (AU), Luke Marzen (AU), Marshall Shepherd (University of Georgia), Ming-Kuo Lee (AU), Sam Fowler (AU), Siladitya Chaudhury (AU), Thomas Jordan (University of Georgia), Wadye Morse (AU), Yingru Li (AU).

##### **Graduate advisor**

Marshall Shepherd PhD. (University of Georgia)

##### **PhD Dissertation and Master's Thesis Committee Member (Major advisor of 3)**

Mahjabin Rahman (**Advisor**, Auburn University, Master of Science), Andy Hug (**Advisor**, Auburn University, Master of Science) and Xia Li (**Advisor**, Auburn University, Master of Science), Trae Bowen (Advisor, Auburn University, Master of Science), Jia Yang (Auburn University, PhD, School of Forestry and Wildlife); Tyler Jones (Auburn University, Master of Science); Alyson Cederholm (Auburn University, Master of Science); Jeff Caudill (Auburn University, Master of Science); Holly Pak (Auburn University, Master of Arts); Andrew Turner (Master of Science), Samridhi Shakya (Master of Science); Ting Du (Master of Science)