

XUANTONG (TONY) WANG

EDUCATION

University of Denver (2016-2020)

Ph.D. in Geography

University of Pennsylvania (2014-2016)

Master of Environmental Studies - Resource Management

University of California, Berkeley (2011-2014)

BS in Environmental Economics and Policy

WORK EXPERIENCE

Teaching Assistant Professor (Champaign, IL, Current)

University of Illinois at Urbana-Champaign

Lecturer (Denver, CO, 2019-2020)

University of Colorado-Denver

Software Developer at Colorado Department of Transportation (Denver, CO, 2019-2020)

Colorado Department of Transportation

AWARD AND SCHOLARSHIP

Dr. Robert D.Rudd Memorial Award (2019)

Microsoft Azure “AI for Earth” Grant (2019)

AAG Cyberinfrastructure Specialty Group Robert Raskin Competition Travel Award (2019)

Microsoft Azure “AI for Earth” Grant (2018)

Doctoral Fellowship of Inclusive Engagement (2017)

Dean’s Scholarship (2016)

American Association of Geographers Poster Award (2016)

UPenn Student of the Year - Department of Earth and Environmental Science (2016)

UPenn Walker’s Fund for Field Research (2015)

PUBLICATION

Wang, X*., Raza, M., Moyer, J. D., Li, J., Scheer, J., & Sutton, P. (2019). Estimation and Mapping of Sub-National GDP in Uganda Using NPP-VIIRS Imagery. *Remote Sensing*, 11(2), 163.

Li, J*, **Wang, X.**, Zhang, T., & Xu, Y. (2018). Efficient Parallel K Best Connected Trajectory (K-BCT) Query with GPGPU: A Combinatorial Min-Distance and Progressive Bounding Box Approach. *ISPRS International Journal of Geo-Information*, 7(7), 239.

Wang, X., Li, J*, & Zhang, T. (2019). A Machine-Learning Model for Zonal Ship Flow Prediction Using AIS Data: A Case Study in the South Atlantic States Region. *Journal of Marine Science and Engineering*, 7(12), 463.

Wang, X*, Sutton, P. C., & Qi, B. (2019). Global Mapping of GDP at 1 km² Using VIIRS Nighttime Satellite Imagery. *ISPRS International Journal of Geo-Information*, 8(12), 580.

Wang X*, Li J., Zhang T., 2019. Building a GPU-enabled analytical workflow for maritime pattern discovery using Automatic Identification System data. In: Tang W. Wang S. eds, *High Performance Computing for Geospatial Applications*. Springer.

CONFERENCE AND PRESENTATION

American Geophysical Union Conference (2019)

Poster presentation: A grid-based hierarchical decomposition strategy for memory-efficient LiDAR processing with GPUs

American Association of Geographers Annual Conference (2019)

Paper presentation: A spatiotemporal sequence mining approach for ship trajectory data

Paper presentation (co-presenter): Assessing Learning Outcomes in Geography and Environmental Science at the University of Denver

American Association of Geographers Annual Conference (2018)

Paper presentation: VisAIS: A multidimensional visualization client to support analysis of AIS information

Paper presentation (co-presenter): Using nighttime imagery to estimate Gross Domestic Product at sub-national levels in Africa

DURAP (2018)

Poster-presentation: Using Multi-Source geospatial data to assess the socioeconomic development in Africa

American Association of Geographers Annual Conference (2017)

Paper presentation: An analysis of global migratory birds' distribution

American Association of Geographers Regional Conference (2016)

Poster presentation: Conservation of Sui Minority Language in southern China