

Community Resilience in Maricopa County

Urban green infrastructure planning and the HeatMapper citizen science project.

Science and Mathematics Colloquium Series

Presentation by Qunshan Zhao
Postdoctoral Research Associate
School of Geographical Sciences and Urban Planning

Wed., Sept. 5, 2018
3 – 4 p.m.

Student Union, Cooley Ballroom A
ASU Polytechnic campus

Knowledge Exchange for Resilience (KER) is an effort of ASU and the Virginia G. Piper Charitable Trust to integrate resilience data collected from community stakeholders, social media, citizen science, and local and federal authoritative organizations, in order to identify and mitigate resilience threats to Maricopa County. Related to KER, Qunshan Zhao will talk about how to optimally design tree locations and arrangements for residential neighborhoods and then will discuss the ongoing citizen science project HeatMapper, explaining how heat resilience data is collected from various heat-vulnerable populations in the county. The research results will provide a guideline for the next phase of urban green infrastructure planning here and help overcome the long-term heat stress for vulnerable populations.

Faculty and practitioners discuss their current research and field projects in the Science and Mathematics Colloquium Series, held throughout the academic year at ASU's Polytechnic campus. All seminars are free and open to the public.



Qunshan Zhao is originally from southeast China (Fujian Province). As an undergraduate Zhao studied remote sensing, photogrammetry and GIS at Wuhan University's School

of Remote Sensing and Information Engineering. He then earned a master's and doctorate in geography in the School of Geographical Sciences and Urban Planning at ASU, where he continues to work as a postdoctoral research associate with the Knowledge Exchange for Resilience initiative, and the Spatial Analysis Research Center (SPARC).

His research focuses on using remote sensing, GIS and spatial analytical methods and tools to solve emerging environmental and societal problems in the urban environment.

   **CISAASU**

cisa.asu.edu

 **College of Integrative
Sciences and Arts**
Arizona State University