**GRADUATE CERTIFICATE PROGRAM IN GEOSPATIAL TECHNOLOGY**

**Contact Information**
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**Faculty**

**Douglas O. Fuller** Professor of Geography (Ph.D. 1994, University of Maryland)  
Dr. Fuller specializes in optical remote sensing, GIS, land-cover change, and human-environment interactions mainly in tropical areas. He uses imagery from weather and other satellites to examine climatic change, natural hazards, patterns of biodiversity, and habitat loss.

**J. Miguel Kanai** Assistant Professor of Geography (Ph.D. 2008, UCLA)  
Dr. Kanai’s research explores how intertwined processes of urbanization and globalization shape contemporary social life. With a focus on the territorial politics of redevelopment in globalized cities, his work engages postcolonial urban theory, the spatiality of inequality, as well as regional, city, and neighborhood planning, and the place of the middle classes in the contemporary city.

**Shouraseni Sen Roy** Associate Professor of Geography (Ph.D. 2005, Arizona State University)  
Dr. Sen Roy conducts research in climatology and specializes in the monsoonal rainfall patterns of the Indian subcontinent. Her specialty also includes GIS, spatial analysis, and interpolation of meteorological data. She uses advanced spatial analysis techniques to examine long-term patterns of different climate phenomena.

**Ira M. Sheskin** Professor of Geography, Department Chair and Director of the Jewish Demography Project of the Sue and Leonard Miller Center for Contemporary Judaic Studies (Ph.D. 1977, The Ohio State University)  
Dr. Sheskin is a human geographer with teaching and research interests in ethnic geography, the Middle East, statistical analysis, survey research, data collection, and urban geography.

**Justin Stoler** Assistant Professor of Geography (Ph.D. 2012, SDSU & UCSB)  
Dr. Stoler’s research explores the geographic patterns of urban health disparities, particularly in the developing world, and environmental influences on social and behavioral epidemiology. He uses spatial modeling techniques to integrate household survey data, GIS layers of municipal infrastructure, and remote sensing data.

**Diana Ter-Ghazaryan** Lecturer (Ph.D. 2010, Florida International University)  
Dr. Ter-Ghazaryan uses GIS mapping and visualization to investigate the changing landscape of Yerevan, Armenia. She is a human geographer with research interests in the former Soviet Union, urban geography, diaspora studies, and qualitative and critical applications of geospatial technology and GIS. Dr. Ter-Ghazaryan directs the Department’s Certificate Programs in Geospatial Technology.
Graduate Curriculum

The Certificate Program in Geospatial Technology (GT) is designed to benefit students who seek to enhance their skills in geospatial technologies, especially Geographic Information Systems (GIS) and satellite remote sensing. The certificate requires 15 credits, including three core courses and two or more electives. Students may receive credit toward the certificate or past coursework completed at UM or other accredited schools.

Core Courses

GEG 591
Introduction to GIS

GEG 593
Intermediate GIS

GEG 592
Environmental Remote Sensing

Electives

GEG 585
Advanced Cartography

GEG 545
Independent Study

GEG 535
Internship

GEG 580
Introduction to Quantitative Methods

GEG 594
GIS and Environmental Modeling

GEG 595
WebGIS

GEG 681
Advanced Spatial Statistics

Future Electives

GEG 596
Giscience for Water Resources Research

Miller School
GIS in Public Health