AYAN MITRA
CURRICULUM VITAE

Geospatial Research & Solutions
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EDUCATION

Master of Science (Engineering), Arizona State University, 2007

Bachelor of Science (Electrical & Computer Engineering), Magna Cum Laude, Christian Brothers University, 2003

AREAS OF SPECIALIZATION

GIS Application Development, GIS Database optimization and design

PROFESSIONAL EMPLOYMENT

January 2015 – Present	MAS-GIS Faculty Associate Arizona State University Tempe, Arizona
August 2008 – Present	Research Associate/Application Developer Geospatial Research & Solutions Arizona State University Tempe, Arizona
August 2003 – July 2004	Geographic Information Systems Intern Fisher and Arnold Inc. Memphis, Tennessee
August 2000 – May 2003	Hardware Systems Support Information Technology Services (CBU) Memphis, Tennessee

HONORS AND AWARDS

2006 – 2007   ASU Graduate Research Assistantship

2007   Tau Beta Pi (National Engineering Honor Society), Arizona State University

2007   Alpha Chi Honor Society, Arizona State University

RESEARCH EXPERIENCE

August 2004 – Present
Web Mapping Application Research and Development

As a developer of new web mapping programs, apply engineering methodology and research practices to GIS software projects. Research and formulate best fit programming strategies for mapping software development. Develop innovative strategies and enhancements to ESRI mapping software applications. Conduct research into development of Novel Internet Mapping Applications using cutting edge web technologies. Collect, analyze and use hard ware and software requirements for internet mapping projects. Also responsible for development of software applications using ASP.net C#, Javascript, PHP, and AJAX. Use the .Net platform, in conjunction with SQL (Microsoft SQL Server, MySQL, and PostGRES) and RDBMS software to provide data connectivity for research projects. Creation of mobile iOS and QT Gis Applications and backend GIS Map and Web services. Use the ArcGIS family of software products to analyze and solve GIS tasks. Research and develop new web mapping applications with Leaflet, ESRI API and the Google Maps API. Support GIS research and development on NSF grants such as Paleoclimatic and paleoenvironmental context of the origins of modern humans in South Africa, Landuse and Landscape Socioecology in the Mediterranean Basin and the grant obtained by the Southwest Center for Environmental Research and Policy.

CONFERENCE PRESENTATIONS

2016   Mitra, A. 2016. Creating Cross Platform Mobile GIS applications using QT. AGIC Conference, Prescott, AZ, September, 2016

2016   Mitra, Ayan & Lewis, Seth. 2016. Smart Communities - Simple Applications for Complex Workflows. ESRI User Conference, San Diego, CA, June, 2016.

2016   Mitra, A. & Lewis, S. 2016. Developing Simple Applications for Complex GIS Workflows. Esri Southwest Conference, Phoenix, AZ, January, 2016.

2015   Mitra, A. & Deitrick, S. 2015. Analyzing Local Food Sources with ArcGIS. Esri User Conference, San Diego, CA, July, 2015.

2014   Mitra, Ayan. 2014. AZ JavaScript Broadband Viewer - Migrating an Esri Flex Viewer Application to JavaScript and HTML5. AGIC Education and Training Symposium, Prescott, AZ, September 25, 2014.

2013	Mitra, Ayan. 2013. Creating Hybrid Mobile GIS Apps using HTML5, jQuery and PhoneGap. AGIC Education and Training Symposium, Prescott, AZ, September 25, 2013.
2012	Mitra, Ayan. 2012. To Cloud or Not to Cloud. AGIC Education and Training Symposium, Prescott, AZ, October 12, 2012.
2012	Mitra, Ayan. 2012. Arizona Data Portal. AGIC Education and Training Symposium, Prescott, AZ, October 12, 2012.
2011	Mitra, Ayan. 2011. Integrating Drupal with ArcGIS Server. Esri Developer Meetup, Phoenix, AZ, November 15, 2011.
2011	Campisano, C.J., Lemar, S., Mitra, A., Thompson, E.., Arrowsmith, J.R., Kim, J.G., Reed, K.E. & Kimbel, W. (2011). Google Earth and the Hadar Geoinformatics Project: an integrated data visualization platform for research and education in paleoanthropology. 3rd Conference of the East African Association for Paleoanthropology and Paleontology (EAAPP), Addis Ababa, Ethiopia
2011	Campisano, C.J., Lemar, S., Mitra, A., Arrowsmith, J.R., DiMaggio, E.N., Reed, K.E. & Kimbel, W. (2011). Google Earth and ArcGIS Server as database sharing tools for research and education in paleoanthropology: examples from the Hadar Geoinformatics Project. American Journal of Physical Anthropology 144(S52), 103.
2011	Lemar, S., Mitra, A. & Campisano, C.J. (2011). Developing Similar Applications for Totally Dissimilar Audiences. ESRI Southwest User Conference, Mesa, AZ, November 16-18, 2011.
2011	Lemar, S. 2011. Enhancing the Teaching of Geography Through the Use of GeoSpatial Technology. Arizona GeoConference, Mesa, AZ, September 24, 2011.
2009	Mitra, Ayan. 2009. Arizona Imagery Server – Building a high performance, scalable imagery server on a virtualization platform. AGIC Education and Training Symposium, Tucson, AZ, November 5, 2009.
2008	Mitra, Ayan. 2008. Creating Highly Dynamic Map Mashups using Google and ESRI. AGIC Education and Training Symposium, Prescott, AZ, October 9, 2008.
2007	Mitra, Ayan. 2007. Customization of ArcGIS Server Web Applications using the .NET Framework. AGIC Education and Training Symposium, Prescott, AZ, August 9, 2007.