

JOSEPH ADDUCI

Ecological and Geographical Sciences Section
Environmental Science Division
Argonne National Laboratory

Education:

M.S. Graduate studies in GIS, University of Missouri Northwest
B.A. Teaching of History (minor: Geography), University of Illinois
at Chicago, 1997

Professional Experience:

2001-Present GIS Programmer/Analyst
Environmental Science Division
Argonne National Laboratory

Lead GIS programmer in multiple projects, including THADIAS (Radiological Theft and Diversion Incident Analysis System), ACWA (Assembled Chemical Weapons Assessment) and GRRSI (Global Research Reactor Security Initiative). Co-creator and lead data analyst for THADIAS. Implemented numerous applications as they relate to the presence, location and disposition of radiological materials and institutions on a global level. Trained non-GIS oriented staff and implemented a GIS system at Argonne's Washington, D.C. office in anticipation of implementing the same system for the U.S. National Nuclear Security Administration (NNSA). Served as team member, Radiological Assistance Region 5. Actively assisting and advising INTERPOL in creation of international nuclear tracking geodatabase.

2006-Present GIS Instructor, Elmhurst College, Elmhurst, IL
2004-Present College of DuPage, Glen Ellyn, IL

GIS instructor. Created and implemented curriculum focused on ESTI ArcMap GIS software intended to introduce the fundamentals and advanced topics of geography, GIS and Remote Sensing. Courses included instruction and labs relating to GIS data acquisition; analysis and presentation techniques; GPS technology, geodatabase features, attributes and structure; methods of base map development and generation of quality map products and applications; 3D GIS analysis and geospatial data analysis.

2006-Present Illinois Institute of Technology, Chicago, IL

GIS instructor in graduate program.

Summary of Previous Experience:

2000-2001 Senior GIS Processor, DuPage County Data Processing Department
Wheaton, IL

Responsible for maintenance and distribution of DuPage County GIS cadastral file to municipalities, townships, and various government and private GIS users. Designed and implemented format for new countywide cadastral reconfiguration. Team leader in reconfiguration programming and processing. Created maps for the March and November 2000 elections. Represented Data Processing Department on DuPage County Crisis Management Team.

1997-2000 GIS Processor, DuPage County Data Processing Dept., Wheaton, IL

Converted mainframe GIS data to Workstation ArcInfo format, prepared and edited ArcInfo data for use in taxing, billing and electoral functions. Created and processed tax maps using Visual Basic, ArcInfo and Image Alchemy, and created and implemented GIS support system for the Office of Emergency Management prior to and during Y2K. Coordinated traffic, security and emergency evaluation plans for 1999 PGA Championship at Medinah, IL.

Awards:

U.S. Army Achievement Medal (2 awarded); National Defense Medal, Good Conduct Medal
Argonne Pacesetter Award, August 2005
Argonne Director's Award, August 2006