

Curriculum Vitae

# Joshua Stewart Campbell

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Home Address:  
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Work Address:  
Kansas Applied Remote Sensing Program (KARS)  
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Lawrence, KS 66047-3759  
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## Education

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Ph.D. – Geography, University of Kansas, Lawrence Kansas	Entered program August 2006
M.A. -- Geography, University of Kansas, Lawrence Kansas	Graduated December 2006
B.G.S -- Anthropology, University of Kansas, Lawrence Kansas	Graduated August 1999

## Research Interests

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GIS, Remote Sensing, Spatial Analysis and Modeling, Terrain Analysis, 3D visualization

Web-based GIS, Free and Open Source for Geospatial Applications (FOSS4G), Disruptive Innovation, New Product Development, Cyberinfrastructure, Sustainable Development

## Research and Consulting Positions

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### Research Assistant – Kansas Applied Remote Sensing (KARS) Program – Fall 2004 to Current

Current project is a \$9 million EPSCoR grant entitled “Understanding and Forecasting Ecological Change: Causes, Trajectories and Consequences of Environmental Change in the Central Plains”, responsibilities include building GIS-web applications to facilitate the transfer of data between research units at the University of Kansas (Kansas Biological Survey/KARS) and Kansas State University, specifically the Consortium for Global Research on Water-Based Economies (GRoWE).

Previous responsibilities at KARS included:

- image processing tasks associated with the creation of a satellite image archive called the Kansas Satellite Image Database (KSID)
- coordination of the KansasView program, tasks included the development of a remote sensing tutorial for K-12 education programs, attending the AmericaView Winter Business meetings in Washington D.C. and Congressional briefings about the program;
- GIS tasks associated with a STAR Grant, Environmental Protection Agency, entitled “Watershed Classification System for Tiered Diagnosis of Biological Impairments: A Scalable, Central Plains Focus with National Applicability,”
- other GIS/RS support.

### Archaeological Consultant – Kansas State University – Summer 2008

Archaeological database development for use in Google Earth

Geoarchaeological Consultant – PPM Energy, Inc. – Spring 2007

Created Phase I archaeological assessments for two proposed windfarms in Kansas

GIS Consultant – TerraMetrics Incorporated – Fall 2005 to Current

Remote sensing based terrain extraction procedures and software development for the power transmission industry.

GIS Consultant – T. Birdie Consulting – Spring 2004

GIS data development and graphics production.

GIS Consultant – World Corporation / Lawrence-Journal World – Spring 2004

Newspaper market analysis and market segmentation using GIS and market data, also created the 'LJW\_ReportViewer' software tool.

Geoarchaeological Consultant – Center for Environmental Management of Military Lands (CEMML) – Fall 2003

Created 3-dimensional archaeological predictive model and the 'Predictive Model Viewer' software tool. See Publication section for details.

Geoarchaeological Consultant – Center for Environmental Management of Military Lands (CEMML) – Fall 2003

Soil Penetrometer Survey of the Firebreak Site (41CV595), Fort Hood, Texas. See Publication section for details.

KGS Field Mapping – Playa Mapping Project – Spring 2003

GIS-based mapping of Playa Lake Basins in western Kansas. Final dataset distributed by the Data Access and Support Center (DASC), [www.kansasgis.org](http://www.kansasgis.org)

GIS Analyst – KATP Survey Report – Spring 2003

Graphics production for the Kansas Archaeological Training Program, Atchison and Doniphan counties, Kansas

GIS Consultant – Zilhka Renewable Energy – Fall 2002

'Terrain and Biological Suitability Analysis' of potential wind power generating fields in the State of Kansas. Zilhka Renewable Energy is now Horizon Wind Energy and they are currently building a windfarm based on our analysis, see

<http://www.horizonwind.com/projects/whatweredoing/cloudcounty.aspx>

GIS Analyst- Kirwin National Wildlife Area Archaeological Survey Project – Summer and Fall 2001

Geoarchaeological analysis and predictive model for Kirwin National Wildlife Area, Kansas. See Publication section for details.

Lab Technician -- University of Kansas -- August to December 1998

Preparation of samples for radiocarbon dating ( $^{14}\text{C}$ ) and stable isotope ratio analysis (SIRA) of carbon.

The work was part of a National Science Foundation study of climatic proxies represented in loess deposits headed by Dr. William C. Johnson, Geography Department, University of Kansas.

Undergraduate Research Award -- University of Kansas -- June 1998 to February 1999

Geoarchaeological analysis of a playa-lunette system in southwest Kansas

Lab Technician -- University of Kansas -- January to April 1997

Microscopic separation of flotation samples for the Kansas State Historical Society from sites in southeast Kansas as part of an archaeobotanical study. Project Director was Dr. Mary Adair, Museum of Anthropology, University of Kansas.

**Teaching**

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Lecturer

- Principles of Geographic Information Systems (Summer 2002)

Laboratory Instructor

- Remote Sensing of the Environment II (Spring 2001)
- Introduction to Physical Geography, Administrative TA (Fall 2001)
- Remote Sensing of the Environment II (Spring 2000)
- Remote Sensing of the Environment I (Fall 2000)
- Caesarea Field Excavation (Dive Team) (Summer 2000)
- Introduction to Physical Geography (2 semesters) (Fall 1999 and Spring 2000)

Guest Lectures

- Kansas State University: Environmental Landscape Architecture and Design (March 2008)
  - Kansas Next Generation Land use/Land Cover Mapping Initiative
- Kansas State University: Archaeological Field Methods: Survey (March 2008)
  - Archaeological Applications of GIS
- Kansas State University Archaeological Field School (Summer 2006)
  - GIS Applications in Archaeology
- Advanced Community and Advocacy Practice (Social Welfare 846) (Spring 2005)
  - GIS Applications in Social Welfare
- Quaternary Environments (Geog 531) (Spring 2004)
  - Geoarchaeology of Caesarea Maritima
- Introduction to Physical Geography (Geog 104) (Spring 2000 / Fall 2001)
  - Soils
  - Geoarchaeology of Caesarea Maritima (4 lectures)
  - Geographic Dimensions of the Palestinian-Israeli Conflict
- Remote Sensing of the Environment II (Geog 726) (Spring 2000)
  - Hardware, Software, and Networks
  - Geo-rectification
  - Unsupervised Classification
  - Change Detection (2 lectures)

## Publications

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- Campbell, Joshua S., Johnson, William C., Bowen, Mark W. “Ehmke Playa: Relationship between Playas of the Central High Plains and Potential Paleoindian Archaeology”. *Current Research in the Pleistocene*, Vol. 24, 2007.
- Whistler, J.L., B.N. Mosiman, J. Campbell, and D.L. Peterson. 2006. The Kansas Satellite Image Database 2004-2005: Final Report. *Kansas Biological Survey Report #127*. Lawrence, Kansas.
- Campbell, Joshua S. “Archaeological Predictive Model of Southwestern Kansas” Submitted to the Department of Geography, University of Kansas, Lawrence in Fall 2006.
- Logan, Brad, Johnson, William C., Campbell, Joshua S. “Geoarchaeological and GIS Modeling of Archaeological site Locations at Kirwn National Wildlife Refuge, Phillips County, Kansas”. University of Kansas, Museum of Anthropology, Project Report Series No. 105. (Summer 2006)
  - Campbell: Chapter 6: GIS Database Construction and Visualization
  - Johnson and Campbell: Chapter 2: Environment
- Johnson, William C. and Campbell, Joshua S. 2004. *Playa Lake GIS Database*. Available through the Data Access and Support Center (DASC) website, [www.kansasgis.org](http://www.kansasgis.org).
- Campbell, Joshua S. and Johnson, William C. “*Temporal Predictive Model for Fort Hood, Texas: A Pilot Study in the Cowhouse Creek Drainage*”. Archaeological Resource Management Series, Research Report No. 54. United States Army, Fort Hood, 2004.
- Johnson, William C. and Campbell, Joshua S. “*An Assessment of Military Impacts on the Archaeological Record at Site 41CV595*. Chapter 8 in *Military Impacts and Archaeological Site Mitigation at the Firebreak Site (41CV595) Fort Hood, Texas*”. Editor: James A. Zeidler. Archaeological Resource Management Series, Research Report No. 53. United States Army, Fort Hood, 2004.
- Logan, Brad, Johnson, William C., Campbell, Joshua S. “Geoarchaeological Survey of Kirwin National Wildlife Refuge, Northwestern Kansas: Application of a GIS Method”, *Current Research in Kansas*, Number 3, 2003
- Johnson, William C., Bozarth, Steven, R., Campbell, Joshua S. “Isotopic and Biosilicate Records from Playa-Lunette Systems of the High Plains in Kansas”, *Current Research in the Pleistocene*, Vol. 19, 2002.

## Presentations

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- Campbell, Joshua S. “Archaeological Predictive Model for the High Plains of Southwestern Kansas.” 64<sup>th</sup> Plains Anthropological Conference 2006. Topeka, Kansas (Paper).
- Campbell, Joshua S. “Archaeological Predictive Model for the High Plains of Southwestern Kansas.” Association of American Geographers Annual Meeting 2005, Spatial Analysis and Modeling Group, Student Paper Competition, Denver, Colorado (paper).

- Rosner, Stacey, Johnson, William C., Campbell, Joshua S., Bozarth, Steven R., Dewane, T.J., and Woodburn, Terri. “The Pleistocene-Holocene Transition as viewed from Big Basin, Southwestern Kansas.” American Quaternary Association 17<sup>th</sup> Biennial Meeting, Quaternary Grassland – Forest Dynamics, June 2004, University of Kansas, Lawrence, Kansas. (poster)
- Campbell, Joshua S. and Johnson, William C. “Archaeological Predictive Model of Southwestern Kansas: A Binary Logistic Regression Approach”. American Quaternary Association 17<sup>th</sup> Biennial Meeting, Quaternary Grassland – Forest Dynamics, June 2004, University of Kansas, Lawrence, Kansas. (poster)
- Johnson, William C. and Campbell, Joshua S. “Distribution, Attributes, and History of Playas on the High Plains of Western Kansas”. EPA Conference, March 2004
- Campbell, Joshua S. “KSHS Official Archaeological Site Database: A User’s Perspective” Professional Archaeologists of Kansas (PAK), Fall meeting, September 2003, Lawrence, Kansas.
- Campbell, Joshua S. “Archaeological Predictive Model for the High Plains of Southwestern Kansas: *Preliminary Results*”. Association of American Geographers, Great Plains and Rocky Mountain Regional Meeting, October 2003, Manhattan, Kansas. (paper)
- Johnson, William C., Willey, Karen L., Campbell, Joshua S., and Robinson, Julie R. “SOM- and bone-derived isotopic signals as proxies of Late Pleistocene and Holocene climatic conditions in the central Great Plains, U.S.A.”. International Union for the Quaternary International Meeting, July 2003, Reno Nevada (poster)
- Campbell, Joshua S. and Johnson, William C. “Probability Model for the Distribution of Surficial Archaeological Materials in Morton County, Kansas”. Flint Hills Conference. April 2003, Topeka Kansas KSHS. (paper)
- Johnson, William C., Logan, Brad, and Campbell, Joshua S. “GIS Rendering of the Geoarchaeology of Kirwin National Wildlife Refuge, Northwest Kansas”. Flint Hills Conference. April 2003, Topeka Kansas KSHS. (paper)
- Johnson, William C. and Campbell, Joshua S. “Distribution and Prehistory of Playa Basins in Kansas”. Playa Lakes Working Group, Salina Kansas. December 2002.
- Logan, Brad, Johnson, William C., and Campbell, Joshua S. “Geoarchaeological Survey of Kirwin National Wildlife Refuge, Northwestern Kansas: A GIS Model of Site Locations”. Plains Conference, Norman, Oklahoma. November 2002. (paper)
- Campbell, Joshua S. and Johnson, William C. “GIS-Based Modeling of Cultural Dynamics in the Central Great Plains”. Geological Society of America National Meeting, Denver Colorado. October 2002. (paper)
- Campbell, Joshua S., Johnson, William C., Logan, Brad. “Modeling Archaeological Site Distribution on the High Plains of Kansas”, Flint Hills Conference, Manhattan, Kansas. April 2002. (paper)

- Campbell, Joshua S., Johnson, William C., Logan, Brad. “Modeling Archaeological Site Distribution on the High Plains of Kansas”, Society for American Archaeology National Meeting, Denver, Colorado. March 2002. (paper)
- Schneider, James A., and Campbell, Joshua S. “Comparison of First-Order Soil Surveys and Spectral Reflectance”, Association of American Geographers, Great Plains and Rocky Mountain Regional Meeting, Omaha, Nebraska. September 2001. (poster)
- Johnson, William C., Bozarth, Steven R., Campbell, Joshua S., and Willey, Karen L. “Biostratigraphy, Magnetostratigraphy and the Environmental History of Playas on the High Plains of western Kansas”, Geological Society of America National Meeting, Reno, Nevada. November 2000. (paper)
- Johnson, William C., Mandel, Rolfe D., Campbell, Joshua S., Willey, Karen L., and Bozarth, Steven. “Playa Systems as Environmental Barometers of the Central Great Plains: Investigations in Kansas”, American Quaternary Association 16<sup>th</sup> Biennial Meeting, Landscape and Biotic Responses to Climate Variability: Future Impacts and Past Lessons, University of Arkansas, Fayetteville AR. May 2000. (poster)
- Campbell, Joshua S. “Exploring the Archaeological Potential of Playa-Lunette Systems in Western Kansas” Undergraduate Research Symposium, University of Kansas, Lawrence KS. February 1999. (paper)

## **Service**

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### GIS Day Planning Committee, Chair 2007

Committee chair for GIS Day @ KU at the University of Kansas. Expanded GIS Day @ KU to over 250 attendees, raised over \$5,000, and initiated an information fair with the day. See <http://www2.ku.edu/~kugis/gisday/2007/index.shtml> for details and video of the day. Nominated for the University of Kansas ‘Team of the Year’ Award, 2007.

### GIS Outreach, 2003-2005, 2007

Presented short lectures on geospatial technology to ~100 middle school students each year

### GIS Day Planning Committee, 2004, 2005, 2006

Continued work to organize and host ‘GIS Day’ at the University of Kansas.

### Geography Graduate Student Organization (GSO) President, 2001 - 2004

Represented Geography graduate students at the University of Kansas, Student Senate

### GIS Day Coordinator, 2003

‘GIS Day 2003’ recognized with the University of Kansas ‘Team of the Year’ Award, 2003

### Outstanding Teacher Nomination Presenter, 2003

Conducted the nomination process and presentation of the “Outstanding Professor (Geography) at the University of Kansas” award.

Geography Open House Committee, 2002

Served on the committee to establish an annual 'Open House' event for the Department of Geography, University of Kansas

Geography Chair Search Committee, 2002-2003

Served as the graduate student representative on the search committee for the academic Chair of the Geography Department, University of Kansas

Information Technology Funds (ITF) Committee, 2002

Served as the graduate student representative on the committee responsible for spending funds generated through the information technology fund.

**Awards**

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- *Outstanding Thesis Award 2007* (\$500) – University of Kansas  
- awarded by the College of Liberal Arts and Sciences for the best Master's thesis in academic year 2006-2007
- *'Team of the Year' Award*, 2003, University of Kansas
- *Dorot Travel Grant* (\$1,500) -- Summer 1999  
-paid for room and board while in Caesarea, Israel
- *Kappelman Award for Archaeological Field Work* (\$750) -- Summer 1999  
-supplemented costs of SCUBA training and equipment
- *Undergraduate Research Award* (\$1,000) -- Summer 1998  
-deferred expenses for playa/lunette research

**Software**

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ESRI: ArcGIS 8.x & ArcGIS 9.x, ARC/INFO, Spatial Analyst, 3-D Analyst (ArcScene, ArcGlobe)

ESRI: ArcGIS Server (.NET)

ESRI: ArcPad 7

Trimble GPS Professional Series / Trimble Pathfinder Office

ERDAS Imagine 9.x

Leica Photogrammetry Suite (LPS)

ENVI 3.3

eCognition 3.0

Quantum GIS (QGIS)

GRASS GIS

UNM Mapserver

Ubuntu Linux Operating System

SPSS (Statistical Package for the Social Sciences)

ESRI: ArcObjects

Visual Basic 6 & Visual Basic for Applications (VBA)  
VB.Net

Visual Nature Studio

Freehand MX  
Photoshop v.6  
Dreamweaver MX

Microsoft Office (Word, Excel, PowerPoint)  
Microsoft Operating Systems

## **Field Schools**

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### *Geography Field School -- Cañon City, Colorado -- August 1999*

Research topics included surveying and mapping the irrigation canal network of the Four Mile Creek Valley, a land use/land cover and projected residential development mapping project of the Four Mile Creek Valley, and a cultural survey of the impact of legalized gambling on Cripple Creek, Colorado. The projects required gathering data from personal interviews and involved the use of Geographic Information Systems and remote sensing applications. All projects involved extensive group planning and cooperation.

### *Archaeological Field School -- Caesarea, Israel -- June 1999*

Conducted at the ancient coastal city of Caesarea, Israel under the direction of Dr. Avner Raban, University of Haifa, and Dr. Kenneth Holum, University of Maryland (also referred to as the Combined Caesarea Expeditions or CCE). Activities involved the underwater excavation of a Roman harbor (c.12 AD). The work required the use of SCUBA diving gear as well as special excavation techniques and equipment. Research included archaeological excavation, stratigraphic analysis, artifact analysis, and cataloging artifacts.

### *Archaeological Field School -- Doby Springs, Oklahoma -- June to July 1996*

Conducted at the Waugh site in Harper County, Oklahoma under the direction of Dr. Jack Hofman, University of Kansas and Dr. Lee Bement, University of Oklahoma. The Waugh site is a Folsom age (~10,000 yrs B.P.) bison kill site. Research activities included surveying with a Total Mapping Station and transit, microscale excavation, orientation of artifacts and faunal material using a compass and laser level, site mapping with an alidade/plane table and transit, and cataloging artifacts.

## **Travel**

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- Germany and Italy, 2008, Personal
- US Virgin Islands, 2008, Personal
- Victoria Canada, 2007, Free and Open Source Software for Geospatial (FOSS4G) Conference
- Germany, Netherlands, Belgium and Turkey, 2007, Personal

- Yucatan Peninsula Mexico, 2004, Personal
- Montreal Canada, 2004, Society of America Archaeologists Conference
- Israel, Egypt, and Turkey, 2000, Archaeological excavations and travel
- Israel, Italy, and the Netherlands, 1999, Archaeological excavations and travel
- Toronto Canada, 1998 and 1999, Personal
- United States: extensive travel in the western US, emphasis on Kansas, Colorado, New Mexico, Arizona, California, Oregon and Washington

**References**

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Dr. Jerome Dobson (Ph.D Advisor)  
Department of Geography  
University of Kansas  
1475 Jayhawk Blvd. Rm 213  
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785-864-5143  
dobson@ku.edu  
(GIS, 3D Visualization)

Dr. William C. Johnson (Master's Advisor)  
Department of Geography  
University of Kansas  
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Lawrence, KS 66045-7613  
785-864-5143  
[wcyj@ku.edu](mailto:wcyj@ku.edu)  
(Geoarchaeology, Paleoclimate reconstruction)

Dr. Stephan Egbert  
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785-864-5143  
segbert@ku.edu  
(Remote Sensing and GIS)

Dr. Xingong Li  
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785-864-5143  
lixixi@ku.edu  
(GIS, GIS application development)

Dr. Brad Logan  
Department of Sociology, Anthropology, and Social Work  
Kansas State University  
214 Waters Hall  
Manhattan, KS 66506  
785-532-2419  
blogan@ksu.edu  
(Archaeology)

**Course Work**

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Archaeology

Introduction to Archaeology	(Anth 110)
Introduction to Physical Anthropology	(Anth 304)
Human Evolution	(Anth 341)
Ancient American Civilization: Mesoamerica	(Anth 506)
Introduction to Southwestern Archaeology	(Anth 510)
Prehistory of the Eastern United States	(Anth 505)
Archaeological Field School: The Waugh Site, Oklahoma.	(Anth 418)
Seminar: Peopling of the New World	(Anth 849)

Geography

Principles of Physical Geography	(Geog 104)
Introduction to Soil Geography	(Geog 535)
Special Topics in Geography: Playa Soils	(Geog 498)
Soil Genesis and Classification	(Geog 735)
Practicum in Soil Mapping and Erosion	(Geog 835)
Seminar: Soils and Geomorphology	(Geog 935)
Geomorphology	(Geog 541)
Introduction to River Systems	(Geog 539)
Topics in Physical Geography: Geoarchaeology	(Geog 531)
Topics in Physical Geography: Quaternary Environments	(Geog 531)
Readings in: Environmental Magnetism	(Geog 898)
Readings in: Archaeological Predictive Modeling	(Geog 898)

Methods of Analyzing Geographical Data	(Geog 512)
Applied Multivariate Analysis of Statistics	(Geog 712)
Remote Sensing of the Environment I	(Geog 526)
Remote Sensing of the Environment II	(Geog 726)
Seminar: Hyperspectral Remote Sensing	(Geog 980)
Seminar: Spectral Mixing Models	(Geog 980)
Seminar: Hypertemporal Data Analysis	(Geog 980)
Seminar: Object-Oriented Image Classification	(Geog 980)
Seminar: LIDAR	(Geog 980)

Intermediate GIS	(Geog 558)
GIScience: Visual Basic & ArcObjects Customization	(Geog 758)
Readings in: ArcObjects Software Development (Modeling tools)	(Geog 898)
Readings in: ArcObjects Software Development (NDFD tools)	(Geog 898)
Seminar: GIS: Place in Science - 3D Geovisualization	(Geog 980)
Seminar: GeoVisualization	(Geog 911)
Seminar: 3D GeoVisualization: Visual Nature Studio	(Geog 980)
Visualizing Spatial Data (VB.Net)	(Geog 514)
Seminar: Geographic Information Science: Spatial Analysis (GeoStats)	(Geog 958)
Seminar: Geography, GIS and Journalism	(Geog 980)
Seminar: WebGIS	(Geog 958)
Research in Geography: Free and Open Source Software for Geospatial	(Geog 998)

Basic Seminar	(Geog 805)
Basic Seminar II	(Geog 806)
Seminar: Cultural Ecology	(Geog 980)
Business (Entrepreneurship)	
New Venture Creation	(Bus 895)
Entrepreneurial Finance I	(Bus 895)
Entrepreneurial Finance II	(Bus 895)
Disruptive Innovations	(Bus 895)
New Product Management	(Mrkt 702)
Roman History	
Introduction to History: Ancient World	(Hist 101)
Roman Republic	(Hist 506)
Early Roman Empire	(Hist 507)
Late Roman Empire	(Hist 508)
Roman Military History	(Hist 402)
Archaeological Field School: Caesarea, Israel.	(Hist 401)
Topics in: Ancient Urbanism	(Hist 510)
Topics in: Jews, Christians, and Muslims	(Hist 510)
Middle East	
Middle East since World War II	(Hist 570)
Oil, Powers, and the Persian Gulf	(Hist 567)
Violence, Terrorism, and Aggression in the Modern World	(Anth 571)
Topics in Cultural Geography: Central Asia	(Geog 571)

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### **Additional Training**

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A Practical Introduction to ka-Map (4 hours) – FOSS4G Conference, Fall 2007, Victoria BC, Canada

Introduction to PostGIS (4 hours) – FOSS4G Conference, Fall 2007, Victoria BC, Canada

Building Applications for ArcGIS Server Using the .NET Framework (24 hours) – ESRI Training, Summer 2007, Leawood, KS

Introduction to ArcGIS Server (16 hours) – ESRI Training, Summer 2007, Leawood, KS

Invention to Venture Workshop (8 hours) – Kauffman Foundation, Fall 2006, Kansas City, MO

Internet GIS (4 hours) – MAGIC Conference, Spring 2006, Kansas City, MO

GIS Project Management (4 hours) – MAGIC Conference, Spring 2006, Kansas City, MO

## **Teaching, Expanded**

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### Lecturer – University of Kansas – Summer Semester 2002

Primary instructor for Principles of Geographic Information Systems (Geog 358), topics included methods of generating, storing, analysis, and visualization of spatial data. Responsibilities included the generation of lecture material, tests, and laboratory exercises.

### Graduate Teaching Assistant -- University of Kansas – Spring Semester 2002

Teaching assistant for Professor Kevin Price, Geography Department, University of Kansas, Introduction to Digital Image Processing (Geog 726). This is an intermediate course in remote sensing that deals specifically with digital image processing. Topics include the use of various image processing software packages including ERDAS Imagine and ENVI. Responsible for generating lectures and revising labs for the laboratory section of the class.

### Administrative Graduate Teaching Assistant – University of Kansas – Fall 2001

Administrator for Introductory Laboratory for Physical Geography (Geog 105), Geography Department. Responsibilities included revision of laboratory manual, conducting weekly meetings, and conducting mid-term teacher reviews. A total of eight TAs were teaching at the time. Due to personnel conflicts, one TA was relieved of teaching duty and I stepped in mid-semester to finish teaching the class.

### Graduate Teaching Assistant -- University of Kansas – Spring Semester 2001

Teaching assistant for Professor Kevin Price, Geography Department, University of Kansas, Introduction to Digital Image Processing (Geog 726). This is an intermediate course in remote sensing that deals specifically with digital image processing. Topics include the use of various image processing software packages including ERDAS Imagine and ENVI. Responsible for generating lectures and revising labs for the laboratory section of the class.

### Graduate Teaching Assistant -- University of Kansas – Fall Semester 2000

Teaching assistant for Professor Stephen Egbert, Geography Department, University of Kansas, Remote Sensing of the Environment I (Geog 526). This is an introductory course on the principles of remote sensing. Topics include analysis of aerial photography and satellite imagery, as well as some introductory digital image processing. Responsible for generating lectures, labs, and tests for the laboratory section of the class.

### Graduate Teaching Assistant -- Caesarea, Israel -- Summer 2000

Teaching assistant for Professor Hagith Sivan, History Department, University of Kansas, Archaeological Field School. Responsibilities included making several presentations concerning the Caesarea program to various lecture classes at the University of Kansas, organizing the divers participating in the underwater excavations, and other general organizational activities. The work includes my involvement as a diver in the excavations. The excavations are conducted through the Combined Caesarea Expeditions. Officially designated as two courses: History 510 Topics in: Ancient Urbanism, and History 510 Topics in: Jews, Christians, and Muslims.

Graduate Teaching Assistant -- University of Kansas -- Fall Semester 1999 and Spring 2000

Introductory Laboratory for Physical Geography (Geog 105), Geography Department. Topics of the class include geographical techniques, climatology, biogeography, geomorphology, and paleo-environmental reconstruction. Responsible for generating lectures, tests, and additional activities. Two sections each semester with an average of 20 students each.