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RESEARCH INTEREST

The nature of data, particularly spatiotemporal data. Analyzing movement and environmental data in human-animal conflict areas to find viable and mutually beneficial solutions. Developing software tools that aid in the analysis and visualization of spatiotemporal data. Teaching and pedagogy of spatiotemporal related software and techniques.

EDUCATION

M.I.T.	2003	University of Georgia, Athens, Georgia	Internet Technology
M. S.	1991	Indiana University of Pennsylvania, Indiana	Geography (Regional Planning)
B. A.	1988	Indiana University of Pennsylvania, Indiana	Geography (Cartography and Remote Sensing)
2005	Graduate Certificate in GIS, University of Georgia, Athens, Ga, USA		
2002	Certificate in Computer Programming, Cardiff University, Wales, UK		

PEER REVIEWED PUBLICATIONS

Budak Arpinar, I., Sheth, A., Ramakrishnan, C., Lynn Usery, E., Azami, M. and Kwan, M.-P. (2006), Geospatial Ontology Development and Semantic Analytics, *Transactions in GIS*, 10: 551-575.
<https://doi.org/10.1111/j.1467-9671.2006.01012.x>

ACADEMIC EMPLOYMENT

2020 - present Research and Teaching Assistant, University of Georgia, Athens

- Teach the lab components for Aerial Photographs and Image Interpretation, Introduction to Landforms and Introduction to Physical Geography.
- Developed and updated the website for the Center for Geospatial Research to be modern and responsive
- Developed of QGIS workflow and python script to summarize total duration in a specific boundary country that of a GPS collared animal.
- Collate, update, and organize sturgeon counts and movement data for the Savannah Harbor Extension project.
- Developing a course that teaches the use of extended reality in geospatial science

2018 - present Owner/Tutor, ITS All Connected LLC, Athens, Georgia

- Aid students with GIS, Remote Sensing, HTML, CSS, JavaScript, Java programming, Python, PHP, AP Computer Science, Google Classroom, MS Office, & general computer use, as a contractor with Varsity Tutors online platform
- Provided various technical support for local Athens' residents, primarily elderly residents.

2019-2019 Member Consultant, Costa Rica & Panama Ecological Forecasting Project, NASA DEVELOP National Program, University of Georgia, Athens

- Developed and documented, with 3 other team members, land cover classifications, and a vegetation change forecasting. Enhanced a previously released Google Earth Engine, JavaScript tool for

detecting vegetation change using NDVI and EDI2, and wrote an operating manual for the tool. Conducted international partner meetings with partners in Costa Rica and Panama in both Spanish and English.

2012 - 2018 Implementation Specialist, Schneider Electric, Fort Collins, CO (remote)

- Performed onsite workshops for client technical staff on all custom configurations, data specifications, and custom code for ArcFM installations and upgrades.
- Developed user manuals and installations guides for custom components created for site-specific installation of ArcFM systems.

2004 - 2005 Research Assistant, CRMS & LSDIS, University of Georgia, Athens

- Created a library of metadata for all CRMS held data for the purpose of making it more available to other academic researchers
- Developed an Owl ontology for the US Geological Survey's Geographic Names Information System

1995 - 1996 Math and Computer Teacher, Fuli School, Chaozhou, China

- Worked with a Chinese counterpart to develop English versions of lessons plans for math and computer classes for grade three through twelfth, in an English language boarding school.

1995 - 1995 Director, Bahá'í Office of the Environment (training & education), Taipei, Taiwan

- Co-conducted and supported workshops for teachers and nature interpreters aimed at helping them bring environmental education into the classroom using a balance of both art and science.

1992 - 1994 Town Planner, US Peace Corps, Nepal

- Taught the members of a nongovernment nonprofit organization how to make a survey to collect anonymous information and data of the population that they are working with, and how to quantify the data and use them in grant proposals.

1989 - 1991 Geospatial Analysis Lab Supervisor, IUP, Indiana, PA

- Oversaw all student activities, maintained computers and equipment, and lent technical support to both staff, faculty, and students in the Geospatial Analysis Lab in a university Geography department.

AWARDS

2007 GITA Southeast Chapter Annual Scholarship

OTHER EMPLOYMENT

2012 - 2018 TAM, Software Developer, Schneider Electric, Fort Collins, CO (remote)

2006 - 2012 GIS Developer, Jackson EMC, Jefferson, GA

2005 - 2006 Database Specialist, Atlanta Regional Commission, Atlanta, GA

2000 - 2002 Project Coordinator, ntl: (now Virgin Media), Hook, United Kingdom

1996 - 1999 Data Analyst, Bahá'í World Headquarters, Haifa, Israel