Tina T. Kuo
7912 Hillside Road
Alta Loma, CA 91701
Mobile: 909-223-1297
Email: t.kuo89@gmail.com

Career Goal

My career goal has always been to work in a field that concerns natural communities, conservation, invasive animal and plant species, and to assist natural resource managers and others in applying such knowledge effectively. One way I could do this effectively would be through teaching at the college level.

Highlights of Education

- Master of Science in Environmental Sciences and Policy program with a concentration in Ecological Management (/2017)
- Certificate of Geographic Information Systems from the School of Engineering, Department of Geomatics, University of Alaska Anchorage (1/ 2012).
- Bachelor of Science from the University of Alaska Anchorage. Major in biological sciences, emphasis in conservation biology, and minors in chemistry and environmental studies (3/2010).
- K-12 Science Educators Training from Copernicus Project, University of California, Riverside Graduate School of Education (8/2007).
- Undergraduate Certificate of Geographic Information Systems from Chaffey College in the San Bernardino County city of Rancho Cucamonga, California (8/2006).
- Associate of Liberal Arts and Sciences from Chaffey College in the San Bernardino County city of Rancho Cucamonga, California (5/1998).

Highlights of Experience

- Surface soil and baseline vegetation survey and mapping for the North Etiwanda Preserve (NEP) in San Bernardino County, Southern California (1/2016-present)
- Volunteer on-site biologist/ecologist/GIS specialist for the NEP in San Bernardino County, Southern California (1/2015-present)
- Work with students with learning disabilities, Chaffey College (1/2015-present)
- Physics and math tutor, the Math Success Center, Chaffey College (1/2015-present)
- Ecology/Geographic Information Systems (GIS) Research Technician, Alaska Natural Heritage Program of University of Alaska Anchorage, Alaska (1/2010- 1/2014)
- Mentor for ecology/botany undergraduate student interns, AKNHP (5/2012-1/2014)
- Ecology/GIS Student intern of Alaska Natural Heritage Program of University of Alaska Anchorage, Alaska (11/2007-1/2010)
- The Copernicus Project Science Summer Internships, University of California, Riverside Graduate School of Education (6/2007 –8/ 2007)
- Chemistry lab assistant of Mathematics and Sciences, Chaffey College, California (8/2003-5/2004 and 8/2005-12/2005)
- Math and chemistry tutor of Mathematics and Sciences, Chaffey College, California (8/2003-12/2004)

- Peer Advisor for Taiwanese international students, Chaffey College student club (8/2000-8/2006)

Projects involved
My specialty is in remote sensing for natural resources and ecological survey which often requires complex technical calculations, establishing work plans, prioritizing tasks, identifying the most economical and efficient procedures for project solution performance, considering all influences, and preparing necessary drawings technical reports, fact sheets, and status reports. Examples of my work on GIS projects include the following:
1. Assisting managing spatial datasets for the Bureau of Land Management's Rapid Ecoregional Assessment of Alaska (2/2012 – 1/2014)
2. Managing spatial datasets of the Alaska statewide landcover classification maps (4/2010-1/2014).
3. Creating info tables, spatial database, maps, Access database for the Bureau of land Management Alaska: National Petroleum Reserve-Alaska Assessment Inventory and Monitoring project (1/2013- 1/2014).
4. Assisting in mapping the exploration of the occurrences of rare plant species in Alaska (1/2013 – 12/2013).
5. Creating Landcover Inventories Map and info tables for analysis for classes: Sitka National Historical Park. Natural Resource Technical Report NPS/SITK/NRTR-2013/773.
6. Creating the digital Plant Association Maps for the Alaska regional ecological exploration and publications in between year 1931 and year 2012 (10/2010 – 7/2012).
7. Working with ecological survey data using Microsoft Access for accuracy assessment and multivariate analysis (11/2007 – 4/2012).
8. Mapping hunger, poverty and unmet food needs in Alaska and Anchorage for the Food Bank of Alaska (8/2009 – 12/2009).
9. Mapping physical characteristic of Cook Inlet basin, Alaska (9/2008 – 1/2010).

Professional Publications
• Boggs, K., T.V. Boucher, T.T. Kuo, D. Fehringer, and S. Guyer. 2013. Vegetation map and classification: Southern Alaska. Alaska Natural Heritage Program, University of Alaska Anchorage, Anchorage, Alaska. ? pgs
• Boggs, K., T.V. Boucher, T.T. Kuo, D. Fehringer, and S. Guyer. 2013. Vegetation map and classification: Northern, Western and Interior Alaska. Alaska Natural Heritage Program, University of Alaska Anchorage, Anchorage, Alaska. 88 pgs
• Boucher, T. V., K. Boggs, B. Koltun, T. T. Kuo, J. McGrath, and C. Lindsay. 2012. Plant associations, vegetation succession, and earth cover classes: Aniakchak National Monument and Preserve. Natural Resource Technical Report NPS/ANIA/NRTR—2012/557. National Park Service, Fort Collins, Colorado.
• Boggs, K., T. Kuo, and M.L. McTeague. 2011. Mosaicked Landcover map for the Seward Peninsula - Nulato Hills - Kotzebue Lowlands Rapid Ecoregional Assessment study area. Alaska Natural Heritage Program, University of Alaska Anchorage.
• Boggs, K., T. Kuo, and M.L. McTeague. 2011. Class descriptions for the mosaicked Landcover map of the Seward Peninsula - Nulato Hills - Kotzebue Lowlands Rapid Ecoregional Assessment.
Alaska Natural Heritage Program, University of Alaska Anchorage.

Job Related Training

My work and study experiences in scientific disciplines, which includes statistic, physics, chemistry, microbiology, ecology, geology, and environmental studies, allows me to perform laboratory and field tests, i.e., collecting and analyzing field objects such as soil sampling, water sampling, and vegetation sampling in ecological surveys. My training in the science educational projects enables me to coordinate with other professionals to ensure that all technical areas are covered and areas of overlapping responsibilities between technical disciplines receive proper consideration.

Highlight of trainings:

1. Investigation of natural resources and ecosystem management and the application of geomantic technologies for their assessment and interpretation. Data gathered from a variety of sources, including remote sensing, ground trusting, global positioning system (GPS), and databases, to be combined into a GIS and evaluated with image analysis software to explore management and land use planning strategies.
2. Photo interpretation and imaging systems, geometry of tophotogrammetry, theory of electromagnetic spectrum, application of remote sensing in engineering, archaeology, agriculture, and forestry using image analysis software.
3. Analysis and modeling techniques for theoretical and practical applications of glossarial databases such as: spatial and non-spatial databases, Structured Query Language (SOL), retrieval and indexing, spatial statistics and their application in GIS analysis, basic stream network analysis, surface interpolation and modeling.
4. Compilation of the data acquired through the knowledge of the ramification of history and philosophy of land, surveying, and land information system in North America, as well as the methods describing and interpreting land descriptions, data acquisition, design, and applications for Land Information Systems (LISP).
5. The training in Excel for scientists and engineers, and Visual Basic for Applications (VBS) from the School of Engineering, University of Alaska Anchorage allowed me to modify or adapt standard GIS to meet program needs.
6. The training in Geographic Information System Certificate program from the School of Engineering, Department of Geomantic, University of Alaska Anchorage allowed me to work on natural resource management, database development and data management.
7. The online Economic and Social Research Institute (ESRI) GIS Analysis training in geographic patterns and relationships, spatial measurements and statistics, modeling suitability, movement, and interaction allowed me to analyze land, mineral, and naturalresource uses of GIS and GPS technology.
8. Training in Copernicus K-12 Science Educational Project from University of California Riverside (2006) inspired me to display the scientific knowledge with a variety of multidisciplinary individuals.

Language Skills	Language	Speak	Write	Read
	English	Intermediate	Intermediate	Advanced
	Chinese-Mandarin	Advanced	Advanced	Advanced
	French	Novice	Novice	Novice

References available upon request