

# Kristina Yamamoto

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## Education

**University of Denver:** PhD candidate in Geography, emphasis in biogeography and remote sensing, expected graduation date summer 2012

**University of Denver:** MS GIS, June 2008, emphasis in biogeography  
Thesis title: Identifying similar biophysical characteristics among nesting beaches of green turtles of Turkey using remote sensing techniques

**University of California, Berkeley:** BS Natural Resource Management, May 2003, emphasis in wildlife management

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## Experience

Summer 2009 -  
present

**USGS Center of Excellence for Geospatial Information Science (CEGIS) Student Career Experience Program (SCEP) Intern.**

Research includes developing soil moisture predictions using Landsat, EO-1 ALI imagery, and hyperspectral bands; tile caching schemas

Fall 2006 – Spring  
2011

**TA/Tutor for University of Denver Natural Science/Physical Geography Classes**

- Fall 2008 – Spring 2010: “Global Environmental Change,” an Honors physical geography course, TA. Lab instruction and grading.
- Fall 2006 – Spring 2008; Fall 2010 – Spring 2011: “Our Dynamic Earth” TA - Instruction of Esri’s ArcGIS 9.2/9.3 to non-science majors. Head TA during 2007-2008 academic year.
- Fall 2008 – Spring 2009: Tutor for University of Denver The Women’s College: Environmental Systems and University of Denver Learning Effectiveness Program (LEP).
- Summer 2009: “Environmental Systems” TA – Lab Instruction, driving university vehicles, and grading

Fall 2009 and 2010

**University of Denver, The Women’s College Instructor.** Taught the first quarter of natural science requirement

Summer 2008

**Esri Denver Regional Office Intern for Technical Marketing Group.**

Created an ArcInfo 9.3 demo for wildlife habitat and corridor modeling to be used at Southwestern Users Group Meeting. Created maps for several organizations and businesses, including 4-H and Mother Lode Internet

Winter 2006 –Summer  
2008

**Southern Rocky Ecosystem Project (SREP).** Responsible for database entry and wildlife identification for local Denver nonprofit.

Spring 2004 - Summer  
2006

**Staff Research Associate for HerpNet, Museum of Vertebrate Zoology (MVZ), UC Berkeley.** A herpetological specimen-based informatics database that provides georeferenced specimen locations from institutions worldwide. Aided in redefining georeferencing protocol

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and training undergraduates and volunteers. Helped plan and present at six workshops, one for national participants and five for international. Attended and presented at the HerpNet georeferencing workshop in Brussels, Belgium in December 2006 and the Global Biodiversity Information Facility (GBIF) georeferencing workshop in Buenos Aires, Argentina in March 2007 in Spanish on cartography and GIS. Wrote several technical documents defining georeferencing standards.

Winter 2001-Winter 2003

**Georeferencer for MaNIS, the Mammal Networked Information System, Museum of Vertebrate Zoology, UC Berkeley.** Georeferenced museum specimens' localities of collection for various countries and institutions.

Fall 2001-Spring 2003

**Research Lab Assistant, George Barlow Fish Behavior Lab, UC Berkeley.** Projects included female-male aggression and courting behaviors in checkered julies, *Julidochromis marlieri*, and possible loss of chromatophores' function in juveniles of the same species.

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## Research

Master's research entailed the use of two remote sensing techniques, maximum likelihood classification and multiple endmember spectral mixture analysis, to compare beaches of similar importance to the green turtle, *Chelonia mydas*, of Turkey. Collaborations with Turkish researchers include using GIS to determine where *Chelonia mydas* and *Caretta caretta* prefer to nest on Aktyan Beach, Turkey. PhD research involves using LiDAR data to predict nesting tendencies for *Chelonia mydas*, *Caretta caretta*, and *Dermochelys coriacea*

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## Awards

- University of Denver Dissertation Fellowship, 2011
- University of Denver Doctoral Fellowship award, 2009
- American Society for Photogrammetry & Remote Sensing (ASPRS) Rocky Mountain Region Scholarship winner, 2008
- Association for Women Geoscientists, Graduate Student Award, 2008
- DU Geography Department, Outstanding Graduate Teaching Assistant Award, 2008

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## Publications

Turkozan, O.; Yamamoto, K.; Yilmaz, C. In press. Nest site preference and density dependent hatching success in green (*Chelonia mydas*) and loggerhead (*Caretta caretta*) sea turtle nests. *Chelonian Conservation and Biology*. (Accepted for either December 2011 or June 2012 issue.)

Finn, M.P.; Lewis, M.; Bosch, D.B.; Giraldo, M.; Yamamoto, K.; Sullivan, D.; and Kincaid, R. In Press. Remote Sensing of Soil Moisture Using Airborne Hyperspectral Data. *GIScience & Remote Sensing*, 2011, 48, No. 4, p. 1-XXX. DOI: 10.2747/1548-1603.48.4.1. (Accepted for December 2011 issue.)

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## Presentations

- Association of American Geographers, AAG, Annual Meeting, Seattle, WA 2011, Co-organizer/chair/presenter in Remote Sensing/GIS/Cartography of Human Environment Interactions, paper entitled "Using LiDAR Data to Characterize Sea Turtle Nesting Beaches in Florida"
- Association of American Geographers, AAG, Annual Meeting, Washington, DC, 2010, presenter in Shedding Light on Human-Environment Interactions session, paper entitled "Regulating Nighttime Lights and Their Effects on Sea Turtles"
- Association of American Geographers, AAG, Annual Meeting, Las Vegas, Nevada, 2009, presenter in RSSG/GISSG/CSG Student Illustrated Paper Competition, paper entitled "Comparing Nest Success of Green Turtles, *Chelonia mydas*, of Akyatan Beach, Turkey"
- Tunisia, Summer 2008, poster "Using GIS in green turtle, *Chelonia mydas*, nests" for 3rd Mediterranean Conference on Marine Turtles
- UC Berkeley, Berkeley, California, Summer 2008, invited speaker to Geolunch seminar, seminar entitled "Hard and fuzzy remote sensing classification of Green Turtle nesting beaches in Turkey"
- Association of American Geographers, AAG, Annual Meeting, Boston, Massachusetts, 2008, presenter in Emerging Topics in Biogeography session, paper entitled "Comparing Nest Success of Green Turtles, *Chelonia mydas*, of Akyatan Beach, Turkey"

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## Additional Information

**Languages:** Novice in Turkish, Proficient in spoken and written Spanish. Studied in Guanajuato, Mexico, summer 2001.

**Computer skills:** Proficient in Esri ArcGIS suite, Microsoft Word, Excel, Access, and Powerpoint, Familiar with LEICA ERDAS, ENVI, and Esri ArcObjects with VBA

**Volunteer** Museum Taxidermist, MVZ (Dec 2004-Aug 2006) Prepared specimens for the ornithological and mammal collection

**Volunteer** for Animal Shelters: Berkeley Animal Care Services (Dec 2002-Oct 2003, Jul 2004 to Aug 2006) Dog handler, Volunteer mentor, and Adoption Counselor; Denver Municipal Animal Shelter Senior volunteer (Sept 2006-June 2008)

**Service:** University of Denver Geography Department Faculty-Student representative, 2007-2008 Academic Year

**Service:** ASPRS DU Student Chapter Secretary/Treasurer, Spring 2008-Spring 2011