

MEREDITH LYNN REBA
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EDUCATION

AUGUST 2012 - MAY 2014: YALE UNIVERSITY SCHOOL OF FORESTRY & ENVIRONMENTAL STUDIES, NEW HAVEN, CT
MESc.: Specialization in Urbanization & Agriculture using satellite remote sensing and Geographic Information Systems (GIS). Adviser: Karen C. Seto

SUMMER 2010: EXPLORER'S SPANISH SCHOOL: HUARAZ, PERU
Intensive Spanish Language Course

FALL 2009: TUFTS UNIVERSITY: AGRICULTURE, FOOD AND ENVIRONMENT, BOSTON, MA
Master's Program (withdrawn) Advisor: Timothy Griffin, GPA: 4.0/4.0

MAY 2002 - DECEMBER 2002: BRIDGEWATER STATE COLLEGE, BRIDGEWATER, MASSACHUSETTS
NSF-Funded Accelerated Pathways to Teaching Program (APT): Graduate Certificate in Secondary School Science Education

AUGUST 2000 - MAY 2002: BROWN UNIVERSITY, PROVIDENCE, RI
ScB. Geological Sciences/Biology(Plant). Thesis: Why Do Glaciers Surge? Advisor: Jan Tullis. Magna Cum Laude, Elected to Sigma Xi Scientific Research Society (current member)

JULY 1997 - MAY 1998: MALANGSSENTRET FOLKEHOGSKOLE (current: FOLKEHOGSKOLEN 69° NORD)
Outdoor Arctic Survival: Ski Mountaineering, Dogsledding, Mountain-based horse packing, Hunting, Fishing, and Norwegian Language & Culture

AUGUST 1995 - MAY 1997: BOWDOIN COLLEGE, BRUNSWICK, ME
Visual Art/Art History (Sculpture & Architecture), Geology minor, Sarah & James Bowdoin Scholar

TEACHING EXPERIENCE

SPRING 2014: INTERNSHIP: CHILD'S PLAY: DEVELOPING ONLINE EDUCATIONAL MATERIALS FOR MAP ALGEBRA
WEBSITE: GOOGLE GRANT FUNDED, PROFESSOR DANA TOMLIN

- Developing educational material in various forms (including text, graphic/mind maps, pictures, drawings, video, and slide shows, etc.) for online raster GIS course.

FALL 2013: TEACHING FELLOW: GIS: MODELING GEOGRAPHIC OBJECTS: YALE UNIVERSITY, PROFESSOR DANA TOMLIN

- Held office hours for vector-based ArcGIS course.
- Answered student question via email and online "Piazza" forum.

FALL 2001- SPRING 2012: TUTOR

- Worked as a one-on-one tutor for middle, high school, and college students in the areas of chemistry, Earth science, calculus, physical science, algebra, geometry, and writing.

FALL 2002 – SPRING 2006: PUBLIC HIGH SCHOOL & MIDDLE SCHOOL SCIENCE TEACHER: DUXBURY & MANSFIELD, MASSACHUSETTS

- Developed and implemented new Earth science curriculum for high school juniors & seniors.
- Established partnerships with high school junior/senior environmental science students as middle school mentors while converting a school bus to run on vegetable oil.
- Led high school environmental science students on a two-week field trip to a folkehogskole (People's Higher Learning School) in northern Norway to study environmental issues, dogsledding, ski mountaineering, and Norwegian culture.

FALL 2001 - SPRING 2002: TEACHING ASSISTANT & FIRST-YEAR ADVISOR: INTRODUCTORY GEOLOGY: BROWN UNIVERSITY, PROFESSORS JAN TULLIS & KAREN FISCHER

- Assisted in the instruction of laboratory sessions and formal assessment of assignments.
- Lead student discussion of geological concepts within the lab setting.
- Worked as a first-year advisor connected with the course.

RESEARCH & WORK EXPERIENCE

MAY 2014 – PRESENT: POST GRADUATE RESEARCH ASSOCIATE: SETO LAB, YALE UNIVERSITY, NEW HAVEN, CT

- Working on NSF and NASA -grant funded projects examining:
 - Urbanization and dietary shifts in China and India
 - Satellite imagery as an art form
 - Cataloging historical global city population counts
 - Synthesizing and disseminating past and current urban remote sensing algorithms

AUGUST 2010 – AUGUST 2012: FARM APPRENTICE: WHITE BARN FARM, WRENTHAM, MA

- Worked with all aspects of production from seeding (direct and transplanting), cultivation (by hand and tractor), harvesting, and sales

JUNE 2006 – MARCH 2010: GLOBAL PARTNERSHIPS FOR HEALTH & EDUCATION: CO-FOUNDER & VICE PRESIDENT, REHOBOTH, MA

- Co-founded and co-directed a non-profit organization which examined access to health care and education in the developing world while travelling by bicycle.
- Responsible for all co-founding procedures including drafting articles of organization and by-laws, as well as applying for and being granted 501c3 tax exempt status.
- Development and maintenance of organizational website
- Cycled over 25,000 miles by bicycle through Asia, South Asia, Central Asia, Middle East, U.S. & Europe while visiting & documenting both education and health care facilities in these countries.
- Creation of GPHE documentary film highlighting our work in Asia and Central Asia in 2006/2007.
- Completed a New England college, university, high school and community center documentary and speaking tour: fall 2008.

SEPTEMBER 2001 – MAY 2002: LABORATORY/RESEARCH ASSISTANT: DEPARTMENT OF GEOLOGICAL SCIENCES, BROWN UNIVERSITY

- Worked as a student researcher amongst a team of scientists studying paleo-climate cycles, using oxygen isotope analysis of foraminifera shells found in Pacific Ocean floor core sediments.
- Demonstrated and developed lab investigation skills and the ability to work as a component of a larger team, identify and organize appropriate foram species, as well as the ability to wash and sift a lot of dirt.

PUBLICATIONS

REBA M, REITSMA F, SETO KC. 2016. SPATIALIZING 6,000 YEARS OF GLOBAL URBANIZATION FROM 3700 BC TO AD 2000. *SCIENTIFIC DATA*. 2: 160034.

PRESENTATIONS

2008-2009: GLOBAL PARTNERSHIPS FOR HEALTH & EDUCATION

Presentations related to access to healthcare & education in developing countries at North University of China, Janapriya College of Nepal, Bowdoin, Bates, Boston College, UMaine, Hampshire, UMASS Medical School, and various high schools & community centers

FALL 2016: URBAN TRANSITIONS CONFERENCE, SHANGHAI, CHINA

FALL 2016: GIS DAY, YALE UNIVERSITY

PROFESSIONAL SERVICE/VOLUNTEER ACTIVITIES

FALL 2011-SPRING 2012: WILDERNESS MEDICINE COURSE INSTRUCTOR: UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

- Collaboratively instructed a full-year course to first and second year medical school students in wilderness medicine.

2011: INNER-CITY GED TUTOR: WORCESTER, MASSACHUSETTS

- Worked one-on-one with students on GED testing preparation and general study/organizational/life skills.

JUNE 1999 – AUGUST 2000: TEACH MAINE AMERICORPS AT WOLFE'S NECK FARM: FREEPORT, MAINE

- Organized and developed environmental/agricultural programs & worked as a farm hand at a natural meat farm consisting of 300+ animals.

GRANTS & SCHOLARSHIPS

2009: TUFTS UNIVERSITY SCHOLARSHIP

2012: YALE UNIVERSITY SCHOLARSHIP, HIXON CENTER FELLOWSHIP, TRI FELLOWSHIP, JUBITZ FAMILY FELLOWSHIP

PROFESSIONAL CERTIFICATIONS

MASSACHUSETTS HIGHLY-QUALIFIED TEACHER: High School & Middle School Science Certification

MASTER GARDENER: University of Maine Cooperative Extension

EMT/WILDERNESS EMT: UMaine/SOLO: Rescue work: US, Norway, Mongolia, Peru (high altitude)

AVALANCHE CERTIFICATION FOR RESCUE PERSONNEL: American Avalanche Association

RELEVANT SKILLS & INTERESTS

SOFTWARE: Microsoft Office Suite, ArcGIS, Python (beginner), ENVI, R, Dreamweaver, Adobe Creative Suite (Photoshop, InDesign, & Illustrator – beginner)

LANGUAGES: Norwegian (conversationally fluent), Spanish (beginner)

LONG DISTANCE CYCLE TOURING: cycled over 25,000 miles around the world for 2.5 years 40+ countries

ROCK, ICE, & ALPINE CLIMBING: SIGNIFICANT ASCENTS: Himalayas (Nepal), Andes (Argentina), Cordillera Blanca (Peru), Alps (Italy & Switzerland), Squamish, Yosemite, Zion, Red Rocks, Cascades

CERAMICS/DRAWING/ARCHITECTURE/PHOTOGRAPHY/DOCUMENTARY FILMMAKING/POETRY/SCULPTURE