

Elizabeth Unger

Hraunteigur 30
105 Reykjavík
Kt: 310378 – 2599
Gsm: 692 2229
eau@newenergy.is



Objective

To continue learning new skills and applying them to help planet Earth and future generations.

Education

M.Sc. Environmental Science and Natural Resources
University of Iceland, Reykjavík
Department of Economics

January 2009

B. S., Economics, with honors

University of North Carolina at Wilmington, USA

December 2002

Member of Omicron Delta Epsilon (International Honor Society in Economics)

Relevant Courses

Ecological Economics, Environmental Engineering, Cost-Benefit Analysis, Environmental Impact Assessment, Environmental Planning, Econometrics, Ecology, Ethics in Nature, Life Cycle Assessment and Life Cycle Cost Assessment, Carbon Sequestration and Applications, Spatial Mapping of Baltic Sea (Course taken in Finland), Government, Public and Corporate Responsibility and the Environment, Topics in Environmental Science and Natural Resource Management: Managing for Healthy Ecosystems and a Healthy Economy, Geographical Information Systems.

Experience

June 2009: **Cost Benefit Analysis Instructor.** Invited to teach cost benefit analysis module at School of Renewable Energy Science in Akureyri, Iceland. Lead and organized course consisting of both qualitative and quantitative material for a class of twenty students.

January 2009 – Present: **Sustainability Analyst, Íslensk NýOrka (Icelandic New Energy).** Writing formal proposals for European Commission. Analyzing data for various consulting projects. Preparing final cost statements for closing projects within EC. Creating and updating website with material. Establishing international, professional network in the field of alternative fuels/energy carriers and transportation.

December 2007 – December 2008: **Research Analyst.** University of Iceland. Reviewed literature regarding biofuel production methods and life cycle assessment. Estimated potential quantity estimates for specific biofuels based on Icelandic raw material. Part of larger project to evaluate options to reduce emissions in Iceland.

June 2006 – November 2007: **Research Analyst.** University of Iceland. Conducted field experiments using an autonomous underwater vehicle to detect Icelandic scallops. Reviewed literature to develop survey design appropriate with this particular type of technology and features.

January 2004-May 2005: **English teacher, Fjölbrautaskólinn við Ármúla.** Responsible for preparing creative, interactive English lessons using the curriculum developed or selected for the program. Utilized teaching methods appropriate for the students and the topics taught. Evaluated students at regular intervals, while keeping accurate records of students' attendance and progress.

June 2002-September 2003: **Economics Assistant, U.S. Army Corps of Engineers.** Compiled data sets for purpose of evaluating economic feasibility for water resources projects. Member of research team for beach and erosion study. Served on surveying team responsible for regular beach surveys utilizing GIS. Regularly presented findings to panel of lead economists. Assisted in creating a computer model to measure economic activity by using compiled data sets. **Recognized in March 2003 for excellence in performance.**

January 2002-May 2002: **Researcher, UNC-Wilmington.** Collected, reviewed, and summarized relevant journal articles pertaining to crop insurance and input factors such as fertilizer. Researched and investigated crop insurance history and insurance policies available to farmers. Assisted in creating a mathematical crop insurance model using the Meyer and Meyer's approach to illustrate farmers' choices in deductibles and amount of input used.

November 2000-October 2002: **Literacy instructor, Laubach Literacy Council.** Taught English composition and reading skills to U.S. immigrants and illiterate adults. Developed individually tailored programs to assist working adults to become literate.

Computer Skills

Proficient: All Microsoft Office Applications and OS. Experience in SAS, ArcView GIS, SPLUS, SimaPro (life cycle assessment software)

Language Skills

Fluent in English, conversational Icelandic.

Activities & Interests

Icelandic American Business Forum Member (2009 -), Environmental Science student body GAIA 2007-2008. Enjoy exploring nature and reading books. Spending time with my children. Enjoy cooking and hosting dinner parties. Exercising. Traveling and experiencing different cultures.

Special Awards and Recognitions

- 2003 Recognized for excellent performance at the U.S. Army Corps of Engineers.
- 2007 Accepted into Nordic Marine Academy. All expenses paid to attend "Mapping of the Baltic Sea" in Finland.
- 2009 4th of July Event Planner for U.S. Embassy in Iceland
- 2009 Certified by Ford to drive Electric Fuel Celled Hydrogen demonstration vehicles

Articles and Publications

- Master's thesis: An Environmental and Economic Comparison of Biofuel Production Methods Based on Icelandic Feedstocks. Standardized earlier life cycle assessments evaluating biofuel production methods to provide the option to compare and rank methods based on potential environmental impact. In addition potential quantity

estimates were calculated and a general break-even analysis using Icelandic parameters was included in report.

- International Society for Industry Ecology 2009 – presentation. The Economic and Environmental Implications of Technological Transitions: Moving towards a low carbon society in Iceland. Brynhildur Davíðsdóttir, Maria Maack, Elizabeth Unger, Rosa Guðmundsdóttir
- International Society for Industry Ecology 2009 – poster. Environmental comparisons of alternatives of transitioning towards domestically produced biofuels. Elizabeth Unger, Brynhildur Davíðsdóttir
- United States Society for Ecological Economics 2009 Washington – poster. Towards a low-carbon futures in Iceland: Total Impact Assessment
Brynhildur Davíðsdóttir, Maria Maack, Rósa Guðmundsdóttir, Elizabeth Unger

References

Jón Björn Skúlason
Directing Manager
Icelandic New Energy
105 Reykjavík, Iceland
+354 588 0311
skulason@newenergy.is

Brynhildur Davíðsdóttir
Professor, Environmental Science
University of Iceland
Sturlugötu 7, Askja 2 hæð
101 Reykjavík, Iceland
+354 845 5234
Bdavids@hi.is

Hrund Ólöf Andradóttir
Professor, Environmental Engineering
University of Iceland
VII, Hjarðarhaga 2-6
107 Reykjavík, Iceland
+354 525 4656
hrund@hi.is

Frank Reynolds
Lead Economist
U.S. Army Corps of Engineers,
Wilmington District
69 Darlington Ave.
Wilmington, NC 28403
+001 910 251 4773
Frank.Reynolds.Jr@saw02.usace.army.mil

Dr. Christopher F. Dumas
Associate Professor, Economics and Finance
University of North Carolina at Wilmington
601 South College Rd.
Wilmington, NC 28403
+001 910 962 4026
dumasc@uncw.edu