

JAY STERLING GREGG
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EDUCATION

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| University of Maryland PhD in Geography | College Park, MD 12/09 |
| University of North Dakota MS in Space Studies Graduate Certificate in Geographical Information Sciences (GISc) | Grand Forks, ND 8/05 8/05 |
| Colorado State University Graduate Certificate in Statistical Theory and Methods (equivalent) BA in General Philosophy BS in Mathematics, <i>magna cum laude</i> Minor in Physics, minor in Philosophy | Fort Collins, CO 5/03 5/01 12/00 12/00 |
| Mesa State College BA in Fine and Performing Arts (Music), <i>summa cum laude</i> | Grand Junction, CO 12/97 |

EXPERIENCE

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| Wilderness Research Foundation <i>Field Scientist</i> Analyzed soil carbon flux from glacial moraines, collected soil samples for dating. | Bellingshausen, Antarctica 11/09 - Present |
| University of Maryland <i>Mentor, Gemstone Honors Program, School of Engineering</i> <i>Instructor of Climatology, Department of Geography</i> <i>Research Assistant, Department of Geography</i> Analyzed LANDSAT remote sensing data of North American forest disturbances. | College Park, MD 1/08 – Present 9/08 – 12/08 8/05 – 5/06 |
| Joint Global Change Research Institute <i>Research Assistant</i> Developed model for global potential for biomass fuels from agricultural and forestry residues. | College Park, MD 8/06 – 12/09 |
| Oak Ridge National Laboratory <i>Advanced Short Term Research Opportunity Intern</i> Analyzed patterns and trends of fossil fuel CO ₂ emissions for the US and Asia. | Oak Ridge, TN 6/08 – 8/08 |
| World Resources Institute <i>Research Intern, Greenhouse Gas Initiative Protocol</i> Developed performance standards for forest carbon management plans. | Washington, DC 2/07 – 5/07 |
| Institute for Geographic Studies and Natural Resources Research <i>National Science Foundation Graduate Intern</i> Developed models for soil organic carbon and soil nitrogen based on land use. | Beijing, China 6/06 – 8/06 |
| University of North Dakota <i>Research Assistant, Department of Space Studies</i> Collected and analyzed data on fossil-fuel consumption to develop CO ₂ emission inventories. | Grand Forks, ND 6/03 – 8/05 |
| Seoul National University <i>National Science Foundation Graduate Intern</i> Analyzed energy and atmospheric CO ₂ data from Korea. | Seoul, Korea 6/04 – 8/04 |
| Colorado State University <i>Instructor of Activity Based Statistics (with Laboratory)</i> <i>Teaching Assistant for Statistical Methods and Biostatistics</i> | Fort Collins, CO 5/01 – 5/03 5/01 – 8/01 |

SELECTED PUBLICATIONS

- Gregg, J.S.,** S.J. Smith (2010). Global and regional potential for bioenergy from agricultural and forestry residue biomass. *Mitigation and Adaptation Strategies for Global Change* 15 (3): 241-262.
- Gregg, J.S.** (2010). National and regional generation of municipal residue biomass and the future potential for waste-to-energy implementation. *Biomass and Bioenergy* 34 (3): 379-388.
- Gregg, J.S.,** R.C. Izaurralde (2010). Effect of crop residue harvest on long-term crop yield, soil erosion, and nutrient balance: trade-offs for a sustainable bioenergy feedstock. *Biofuels* 1 (1): 69-83.
- Gregg, J.S.,** L.M. Losey, R.J. Andres, T.J. Blasing, & G. Marland (2009). The Temporal and Spatial Distribution of Carbon Dioxide Emissions from Fossil-Fuel Use in North America. *Journal of Applied Meteorology and Climatology* 48 (12): 2528-2542.
- Gregg, J.S.,** R.J. Andres, & G. Marland (2008). China: the emissions patterns of the world leader in CO₂ emissions from fossil fuel consumption and cement production. *Geophysical Research Letters* 35: L08806.
- Zeng, N., Y. Ding, J. Pan, H. Wang, & **J. Gregg** (2008). Climate Change—the Chinese Challenge. *Science* 319: 730-731.
- Gregg, J.S.** & R.J. Andres (2008). A Method for Estimating the Temporal and Spatial Patterns of Carbon Dioxide Emissions from National Fossil-Fuel Consumption. *Tellus* 60B: 1-10.
- Gregg, J.S.** (2003). *Getting Through Statistics*. Introductory Statistics Textbook and Lab Manual (243 pp.) <http://www.jsgregg.com/teaching/ST101/statistics.pdf>

TECHNICAL SKILLS

Productivity Software

Microsoft Office Suite (Word, PowerPoint, Excel & Access), Dreamweaver, html, xml

Geospatial Analysis

ERDAS Imagine, ENVI, ESRI ArcGIS, MapViewer

Statistical Computing and Data Analysis

R, S-Plus, SAS, Visual Basic for Applications (VBA)

Specialized Scientific Models and Equipment

ArcAPEX, ArcSWAT, CBM-CFS3, G-CAM, i_EPIC, Jabowa3, LICOR LI-8100

AFFILIATIONS AND SERVICE

Association of American Geographers (AAG)
American Geophysical Union (AGU)
International Society of Ecological Economics (ISEE)
The Planetary Society
Green Technology Entrepreneurship Academy, UC Davis Center for Entrepreneurship
University of Maryland Solar Decathlon LEAFHouse
Dakota Space Society
ΑΦΩ National Coed Community Service Fraternity: Vice President of Membership
El Centro Student Services & Center: Science, Mathematics, and Technology Tutor
AX National Honor Scholarship Society
Music Educators National Conference: Mesa State College Chapter President

PERSONAL INTERESTS

Classical Guitar, Music Composition, Figure Drawing, Home Improvement, Hiking, Travel