

Curriculum Vitae

Ma. Eugenia González del Castillo Aranda

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EDUCATION

- 2003-Present.** Ecology Graduate Group. University of California, Davis. Davis, CA. Degree expected 2008
- 1995-2000** B.S. Biological Sciences, University of Guadalajara, Mexico

RESEARCH EXPERIENCE

Research collaborator. Biometeorology group, Department of Land, Air and Water Resources, University of California, Davis. Sep 2003-Present.

- Data post-processing and analysis of carbon and water fluxes in an old-growth coniferous forest in Wind River, Washington.
- Data post-processing and analysis of carbon and water fluxes in a cottonwood riparian forest in the Cosumnes River Watershed, California.

Research assistant. National System of Researchers (SNI, Mexico) Plant ecophysiology laboratory, Department of Ecology, University of Guadalajara. 1999- 2003. Collection and analysis of photosynthesis and water status data of CAM and C₄ plants in both greenhouse and field conditions. Collection and analysis of data on plant microenvironment. Laboratory analysis on plant material.

PUBLICATIONS

- Pimienta-Barrios E, **ME González del Castillo-Aranda**, A Muñoz-Urias, PS Nobel. 2003. Effects of benomyl and drought on the mycorrhizal development and daily net CO₂ uptake of a wild platyopuntia in a rocky semi-arid environment. *Annals of Botany* 92: 239-245.
- Pimienta-Barrios E, **ME González del Castillo-Aranda**, PS Nobel. 2002. Ecophysiology of a wild platyopuntia exposed to prolonged drought. *Environmental and Experimental Botany* 47: 77-86.
- Pimienta-Barrios E, S Loza, **ME González del Castillo-Aranda**. 2002. Caracterización anatómica y conductividad hidráulica teórica de los elementos de vaso de variedades silvestres y cultivadas de nopal tunero (*Opuntia*). *Acta Botánica Mexicana* 62: 13-18.
- Pimienta-Barrios E, J Zañudo-Hernández, **ME González del Castillo-Aranda**. Ecofisiología de la fotosíntesis en *Opuntia*. *Fitotecnia Mexicana* (Submitted)

PRESENTATIONS AT PROFESSIONAL MEETINGS

Wharton S, M Falk, **E Gonzalez**, RD Pyles, L Xu, J Snyder, R Reck, KT Paw U. Past, present and future climate variability in the Pacific Northwest and the impact on carbon

exchange in an old-growth forest. Talk presented (by Sonia Wharton) at the 78th Annual Meeting of the Northwest Scientific Association. Corvallis, OR. March 2005.

Wharton S, L Xu, **ME Gonzalez**, M Falk, M Schroeder, KT Paw U. Linking Interannual Variability in an Old-Growth Forest to Seasonal and Interannual Variations in Water Availability. Talk presented (by Sonia Wharton) at the 26th Conference on Agricultural and Forest Meteorology. Vancouver, Canada. August 2004.

Pimienta-Barrios E, **ME González del Castillo-Aranda**, A Muñoz-Urias, PS Nobel. Ecophysiology of a wild platyopuntia exposed to prolonged drought. Poster presented at the 87th Annual Meeting of the Ecological Society of America. Tucson, Arizona. August 2002.

González del Castillo Aranda ME. Estudios de balance de Carbono, agua y energía a nivel ecosistema (Studies on carbon, water and energy balance at the ecosystem level). Talk presented at the Ecology Seminar Series of the Centro Universitario de Ciencias Biológicas y Agropecuarias (University Center of Biological and Agronomic Sciences) of the University of Guadalajara, Mexico. July 2005.

Kochendorfer J, KT Paw U and **E González del Castillo-Aranda**. Net Ecosystem Exchange, Evapotranspiration and Canopy Conductance in a Riparian Forest. Talk presented (by John Kochendorfer) at the 27th Conference on Agricultural and Forest Meteorology. San Diego, CA, May, 2006.

FELLOWSHIPS

2000 National Council of Science and Technology (CONACyT), Mexico.
Undergraduate fellowship. Project No. 28818-B

2003 National Council of Science and Technology (CONACyT)
Graduate fellowship No. 175725

2005 Jastro Shields Research Award (\$1,000) for field work-related expenses.

TEACHING EXPERIENCE

Course instructor. General Ecology, University Center of Biological and Agricultural Sciences, University of Guadalajara, Mexico. Mar-July 2003.

Teaching assistant. Plant Physiology. University Center of Biological and Agricultural Sciences, University of Guadalajara, Mexico. Sep 2002-Jan 2003.
Conduction of laboratory and field-work sessions

REFERENCES

Kyaw Tha Paw U, Ph.D. (530) 752 1510 ktpaw@ucdavis.edu
Professor and researcher. Atmospheric Sciences, University of California, Davis. Davis, CA.

Richard L. Snyder, Ph.D. (530) 752 4268 rlsnyder@ucdavis.edu
Biometeorology specialist. Atmospheric Sciences, University of California, Davis. Davis, CA

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