

SEBASTIAN VICUNA

PERSONAL INFORMATION

Date of birth December 3rd, 1974
Nationality Chile
Address 600 Gooding Way #605, Albany, CA 94706, US
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EDUCATION

UC Berkeley, School of Civil and Environmental Engineering Berkeley, CA
PhD in Civil and Environmental Engineering, expected 2007
• Modeling of conjunctive use systems under climate changed perturbed hydrology

UC Berkeley, Goldman School of Public Policy Berkeley, CA
Master in Public Policy, May 2004
• Focus on environmental policy

UC Berkeley, School of Civil and Environmental Engineering Berkeley, CA
Master in Science in Civil and Environmental Engineering, May 2004
• Focus on air quality engineering and water resource systems analysis

Pontificia Universidad Católica de Chile Santiago, Chile
Bachelor of Science in Environmental Engineering, 1999
Certificate Title in Civil Environmental Engineer, September 2000
• Award for being the top graduated in my class

WORK EXPERIENCE

Lawrence Berkeley National Laboratories, 6/06-to date Berkeley, CA, US
Graduate student researcher
• Assessment of climate change impacts on California water resources
• Research on the conjunctive use of surface and groundwater resources

California Climate Change Center, 9/03-6-06 Berkeley, CA, US
Graduate student researcher
• Assessment of climate change impacts on California water resources

Environmental Defense, 6/03-9/03 Oakland, CA, US
Intern
• Review of new technologies to reduce greenhouse gas emissions from vehicles
• Literature research of methodologies and studies done to assess the monetized value of health effects associated with air pollution from vehicles

Gestión Ambiental Consultores/Ecology and Environment inc., 6/00-8/02 Santiago, Chile
Project Engineer
• Participated in multidisciplinary teams producing environmental impact assessment (focused mainly on air pollution) for different types of industries.

PUBLICATIONS

- Vicuna S., Leonardson, R., Dale, L., Hanemann M., Dracup, J. *in review*. “Climate Change Impacts on High Elevation Hydropower Generation in California’s Sierra Nevada: A Case Study in the Upper American River”. *Climatic Change*.
- Joyce B., Vicuna S., Purkey, D., Hanemann, M., Dale L., Dracup J.A., Yates, D. *in review*. “Climate Change Impacts on Water for Agriculture in California: A case study in the Sacramento Valley”. *Climatic Change*.
- Vicuna S., Dracup J.A., *in press*. “The evolution of climate change impact studies on hydrology and water resources in California. *Climatic Change*. Submitted in July 2005.
- Vicuna, S., Maurer, E. P., Joyce B., Dracup, J. A. and Purkey D, *in press*. “The sensitivity of California water resources to climate change scenarios”. *Journal of American Water Resources Association*. Accepted for publication, July 2006.
- Vicuna S. 2006. “Predictions of Climate Change Impacts on California Water Resources Using Calsim-II: A Technical Note” California Energy Commission. White Paper.
- Joyce B., Vicuna S., Purkey, D., Hanemann, M., Dale L., Dracup J.A., Yates, D. 2006. “Climate Change Impacts on Water for Agriculture in California: A case study in the Sacramento Valley”. California Energy Commission. White Paper.
- Vicuna S., Leonardson, R., Dale, L., Hanemann M., Dracup, J. 2006. “Climate Change Impacts on High Elevation Hydropower Generation in California’s Sierra Nevada: A Case Study in the Upper American River”. California Energy Commission. White Paper.
- Vicuna, S., Hanemann M., and Dale L. 2006. “Economic Impacts of Delta Levee Failure due to Climate Change: A Scenario Analysis”. University of California, Berkeley for the California Energy Commission, PIER Energy-Related Environmental Research. CEC-500-2006-004.
- Dracup. J. and Vicuna S. 2005. “An Overview of Hydrology and Water Resources Studies on Climate Change: the California Experience”. Presented at the 2005 ASCE’s EWRI conference, Anchorage, Alaska
- Dracup, J., Vicuna S., and Leonardson, R. 2004. “Climate Change and Water Supply Reliability”. Final report, California Climate Change Center at UC Berkeley.
- Vicuna, S. 2004. “Control of GHG emissions in California: analysis and comparison of some alternatives”. A Study Conducted for the Center for Environmental Public Policy/California Climate Change Center at the Goldman School of Public Policy, UC Berkeley in partial fulfillment of the course requirements for the Master of Public Policy degree.
- Vicuna, S. 2004. “Exploring Greenhouse Gas Reduction Options for Automobiles”. Report prepared for Environmental Defense, Oakland California.
- Vicuna, S., Powers, K. and Yan, Y. 2003. “Global Warming: Greening International Financing Institutions. A study conducted for the Center for Clean Air Policy.

PUBLICATIONS (con't)

- Donoso, G., Montero, J.P., and Vicuna, S. 2001. “Análisis de los Mercados de Derechos de Aprovechamiento de Agua en las Cuencas del Maipo y el Sistema Paloma en Chile: Efectos de la Variabilidad en la Oferta Hídrica y de los Costos de Transacción” XI Jornadas de Derechos de Aguas, Universidad de Zaragoza y Confederación Hidrográfica del Ebro, Zaragoza, España, 2001.
- Cristi, O., Vicuna, S., Azevedo L. de, and Baltar, A. 2000 “Mercado de Agua para Irrigación: Una Aplicación al Sistema Paloma de la Cuenca del Limarí, Chile,” World Bank-Netherlands Water Partnership Program (BNWPP) Trust Fund, Washington, 2000.
- Cifuentes L., et al. 2001. “Generation of mitigation and compensation instruments oriented to the air quality impact control of new activities in the Metropolitan Region, Chile”. Collaboration in project. Pontificia Universidad Catolica de Chile

COMPUTER AND LANGUAGE SKILLS

Software: Word, Excel, Power Point, SPSS, MATLAB, AutoCad, Surfer, ISCT3, CalSim, STELLA, IWFm, WEAP

Languages: Spanish (native language), English (proficient), Portuguese (basic)

PERSONAL INTERESTS

Current player of the Berkeley Rugby Football Club

Served as President of “Cóndores de Manquehue” Rugby Club (1999-2002). Secretary of “Cóndores de Manquehue” Rugby Club (1995-1999). Summer Volunteer work in rural areas in Chile (Summer 1999).

Travel to Western Europe, Turkey, South East Asia, South America, South Africa, Australia and New Zealand. Hobbies include playing Rugby (member of Berkeley Rugby Club), Carrom and photography aficionado.