

## Name

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## EDUCATION

**PhD in Civil and Environmental Engineering.** *University of South Carolina. Columbia, South Carolina, 2006.*  
**Thesis:** Pervious Concrete: Characterization of Fundamental Properties and Simulation of Microstructure.  
**Advisor:** Dr. Liv Haselbach (unknown@engr.sc.edu)

**Master of Science in Biosystems Engineering.** *Clemson University. Clemson, South Carolina. 2002.*  
**Thesis:** Ammonia Volatilization Resulting from Application of Liquid Swine Manure and Turkey Litter in Commercial Pine Plantations.  
**Advisor:** Dr. John P. Chastain (unknown@clemson.edu)

**Bachelor's Degree in Agronomy.**  
*Universidad Nacional de Colombia. Bogotá, Colombia. 1998.*  
**Thesis:** Approximation to a Statistical Model for the Prediction of Germination and Emergence of Red Rice.  
**Advisor:** Dr. Jairo Clavijo Porras

## QUALIFICATIONS

- Exposure to diverse cultures/environments through work experience and travel, including Israel, Germany, Latin America and India.
- Excellent communication and interpersonal skills including proficiency in Spanish and knowledge of German.
- Proven ability to thrive in research teams and familiar with a variety of technical processes.
- Exceptional abilities/skills in performing analysis and in conducting field work.
- Experienced with MS Office, SAS, Sedimot II Hydrology & Sedimentology Model, Arcview 3.2., Matlab and AutoCAD.

## PROFESSIONAL EXPERIENCE

### **Research Assistant (2003- 2006)**

*Department of Civil and Environmental Engineering, University of South Carolina, Columbia, SC.*

- Collaborated in project research and development with Dr. Liv haselbach regarding pervious concrete, urban heat island, ozone.
- Served as support staff in the NSF workshop "Construction and the Environment: Research Foci for a Sustainable Future Columbia, SC. January 13-14, 2005 at the University of South Carolina.
- Performed as substitute/guest lecturer for: (ECIV 570) Land Development for Engineers, (ECIV 556)- Air Pollution Control Engineering and (ECIV 557)- Sustainable Construction Engineering.

### **Placement Coordinator (September 2002 – January 2003)**

*FirstSite Staffing, Dallas, NC.*

- Coordinated job placement for Spanish speaking clients.
- Initiated customer services and served as a representative for Spanish clients.
- Performed data collection and organization.

**Research Assistant** (August 1999 – 2001)

*Agricultural and Biological Engineering Department, Clemson University. Clemson, SC*

- Designed and built an apparatus to measure ammonia volatilization in the field.
- Worked on preparation of experimental sites, irrigation equipment operation and maintenance, agrochemical application, water quality weir excavation and setup, land application of poultry litter and swine lagoon effluent.
- Responsible for data collection and analysis of water quality, animal waste, soil, and plant tissue samples.
- Actively participated in the Agricultural and Biological engineering open house for senior high school students.

**Support Staff** (July - December 1997)

*International Symposium on Cut Flowers in the Tropics. International Society of Horticultural Science (ISHS). Universidad Nacional de Colombia. Bogotá, Colombia.*

- Prepared symposium activities and served as support staff for the conferences.
- Reviewed and corrected papers published in the symposium proceedings.

**Volunteer** (November - December 1996)

*Revivim Nurseries, Kibbutz Revivim, Bersheva, Israel.*

- Produced bulb flowers and irrigated potato fields.
- Performed maintenance activities of Kibbutz's infrastructure.

**Internship** (June - November 1996)

*Fachgebiet Obstbau, Institut für Gartenbauwissenschaften*

*Humboldt-Universität zu Berlin, Berlin, Germany and Obsthof Brackenburg, Francop-Hamburg, Germany.*

- Aided in the production of temperate fruits, cherries, pears, prunes and strawberries.
- Harvest and post harvest operations involving the production of cherries, pears, prunes and strawberries and initiated technical pruning of fruit trees.

**PROFESSIONAL SEMINAR**

- 17th ACBM/NIST Computer Modeling Workshop. Co-sponsored by ASTM committees C01 and C09. June 26-29, 2006, Gaithersburg, Maryland.
- Pervious Concrete Installation Course. The Carolina Ready Mixed Concrete Association. Charleston SC. April 1, 2004.
- ISO 14001 Environmental Management Systems Lead Auditor Training Course.
- May 12-30, 2003. IATCA-RAB, University of South Carolina.
- Fuel Cells: Science, Technology and Business Opportunities. South Carolina Institute for Energy Studies and Energy Systems Laboratory. July 10-12 2002.

**PROFESSIONAL ASSOCIATIONS**

ASABE - American Society of Agricultural and Biological Engineers

ASCE - American Society of Civil Engineers

ASME - American Society of Mechanical Engineers

AWMA - Air and Waste Management Association

SIAM - Society of Industrial and Applied Mathematics

AMS - American Mathematical Society

SHPE - Society for Hispanic Professional Engineers

