

DALJIT SANDHU, E.I.

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EDUCATION

University of Central Florida, Orlando, FL
Master of Science, Civil Engineering
Specialization: Water Resources Engineering, December 2016
Bachelor of Science, Civil Engineering, 2014

CERTIFICATIONS

Engineering Intern (EIT) – Florida Board of Professional Engineers
June 2015

TECHNICAL/ LANGUAGE SKILLS

Software: Microsoft Office, AutoCAD, WaterCAD, StormCAD, ICPR, Visual Analysis, MATLAB, Groundwater Vistas, ArcGIS, R
Operating Systems: Windows, Linux
Languages: Fluent in Spanish and English

HONORS/AWARDS

- o Dean's List – College of Engineering and Computer Science (2013, 2014)
- o Progress Energy Scholarship - \$3,000 (2013)
- o UCF Scholars Award (2013)
- o UCF MASS Scholarship (2011-12)
- o Florida Medallion Scholar – Florida Bright Futures Scholarship (2011-14)

RELEVANT EXPERIENCE

Graduate Research Assistant – Center for Hydroscience Analysis, Modeling & Predictive Simulations (CHAMPS) Lab

Department of Civil, Environmental and Construction Engineering
University of Central Florida, Orlando, FL 8/2014 – present

- o Studies the effects of climate change on the evolving Everglades region.
- o Gathers and analyzes historical data to assess trends in the region.
- o Observes how physical characteristics may impact climate patterns.

Graduate Teaching Assistant

Department of Civil, Environmental and Construction Engineering
University of Central Florida, Orlando, FL 8/2015 – 4/2016

- o Assists a professor by conducting lab experiments to supplement a water resources engineering course.
- o Assists a professor by providing assignments solutions for a surveying course.

Water Resources Design Engineer – Senior Design

University of Central Florida, Orlando, FL 2014

- o Responsible for developing a residential subdivision unit featuring a stormwater retention pond, along with stormwater, sewer and potable water transmission systems.
- o Responsible for the design which included roadway grading, drainage and hydrology analysis for existing and developed conditions.

Stormwater Research Lab – Research Assistant

University of Central Florida, Orlando, FL 8/2013 – 12/2013

- o Collects and runs experimental columns, measures, and records the dissolved oxygen, pH and turbidity of specimens.
- o Performs filtering analysis on test columns to analyze the total suspended solids.

PUBLICATIONS

Sandhu, D., et al. (2016). Hydro-geomorphic response of Everglades to changing climate and anthropogenic activities. *Journal of Hydrology*, Vol. 543, 861-872.

CONFERENCE PRESENTATIONS

"Investigating anthropogenic and climate change effects on the evolving Everglades landscape," presented at the Environmental Water Resources Institute (EWRI) Congress, May 24, 2016, West Palm Beach, FL.

PROFESSIONAL MEMBERSHIPS**International Association for Hydro-Environment Engineering and Research (IAHR)**

University of Central Florida, Orlando, FL

Public Relations Officer

2015 – present

- o Informs the IAHR community at UCF of activities in which they may wish to participate.
- o Coordinates any social, academic workshop, student forum or other events not already specified.
- o Communicates with other IAHR student chapters and other academic organizations and coordinate connections with them.

American Society of Civil Engineers (ASCE)

2015 – present

LEADERSHIP EXPERIENCE**Sangam – Indian Student Association**

University of Central Florida, Orlando, FL

Secretary

8/2012 – 8/2015

Vice-Chairman

8/2015 – 8/2016

- o Participates and volunteers in multiple events on campus to promote Indian culture.
- o Helps with the creation, advertising and the organization of events.
- o Responsible for writing and documenting meeting minutes at every meeting.
- o Volunteers in and around the local community.