

Adrian Alonso Saenz

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Profile of Qualifications

- Over five years of research experience in water quality and quantity focused projects
- Over six years of active leadership experience in community oriented organizations
- Demonstrated ability to engage high school students from diverse backgrounds in community oriented programs that develop confidence, encourage teamwork, and foster desire to pursue Science, Technology, Engineering, and Mathematics (STEM) related fields of study
- Strong experience in both oral and poster presentations
- Highly motivated, ambitious, and optimistic

Education

Masters of Science in Biosystems Engineering

Oklahoma State University - Stillwater, OK

Expected: May '18

GPA 4.00

Bachelors of Science in Civil Engineering with an Environmental Option

Oklahoma State University - Stillwater, OK

Minor: Leadership

May 2016

GPA 3.59

Research Experience

Graduate Research Assistant

Oklahoma State University – Stillwater, OK

May 2016-Present

- Evaluating the effects of changing vegetation on runoff quantity and quality
- Calibrating erosion prediction models to better estimate erosion in Oklahoma
- Comparing changing land practices on effective hydraulic conductivity tests

Undergraduate Research Assistant

Oklahoma State University – Stillwater, OK

Jan 2014-Aug 2016

- Evaluated the maximum efficiency of standard bio-sand filters when applied with a variety of concentrations of total organic carbon

Research Intern, Environmental Sustainability Program

University of Colorado Boulder - Boulder, CO

Summer 2015

- Evaluated the feasibility of using ultra-violet (UV) and UV with advanced oxidation processes to reuse hydraulic fracturing flowback fluid

Research Intern, Re-Inventing the Nation's Urban Water Infrastructure Program

Colorado School of Mines – Golden, CO

Summer 2014

- Conducted a life-cycle assessment of a thermal-chemical sludge treatment technology for applications in decentralized wastewater treatment plants

Undergraduate Research Assistant

Oklahoma State University – Stillwater, OK

Sep 2013-Dec 2013

- Created an excel visual basic userform that simplifies the Oklahoma Department of Environmental Quality wastewater regulations and makes the information more accessible, user-friendly and faster to navigate

Related-Work Experience

Carpenter

Saenz Remodeling Company LLC - Oklahoma City, OK

Summer 2011-2013

- Highly motivated and worked full-time to cover college expenses
- Responsible for equipment organization and ability to work with little supervision
- Learned the skills necessary to handle and use large machinery
- Expert with basic simple hand and power tools

Administrative Assistance

Vicky Real Estate - Oklahoma City, OK

Jan-Jun 2010

- Excellent customer service and oral communication
- Maintained organized work area and perform custodial responsibilities
- Composed excel spreadsheets for data collect and interpretation

Publications

Co-Author

- Lisenbee, W.A., G.A. Fox, R.B. Miller and **A.A. Saenz**. 2017. Comparison of Field Jet Erosion Tests and WEPP-Predicted Erodibility Parameters for Varying Land Cover. Transactions of the ASABE (in press).

Presentations

Oral

- **Saenz, A.A.**, W.A. Lisenbee, G.A. Fox, and D.E. Storm. Flow and Sediment Yield Data Collection and Modeling Study of Encroached Eastern Redcedar Watersheds. Oklahoma State University 3 Minute Thesis Competition, Stillwater, OK. February 22, 2017.

Poster

- **Saenz, A.A.**, W.A. Lisenbee, G.A. Fox, D.E. Storm, E. Stebler, C. Zou, and R. Will. Runoff, Sediment Yield, and Hydrologic Modeling of Native Prairie and Encroached Eastern Redcedar Watershed. 17th Annual American Ecological Engineering Society Meeting, Athens, GA. May 23-25, 2017.
- **Saenz, A.A.**, W.A. Lisenbee, G.A. Fox, D.E. Storm, R. Will, and C. Zou. Flow and Sediment Yield Data Collection and Modeling Study of Encroached Eastern Redcedar Watersheds. Cowboy Graduate Research Gala, Stillwater, OK. April 13, 2017.
- **Saenz, A.A.**, W.A. Lisenbee, G.A. Fox, D.E. Storm, R. Will, and C. Zou. Flow and Sediment Yield Data Collection and Modeling Study of Encroached Eastern Redcedar Watersheds. Oklahoma State University Student Water Conference, Stillwater, OK. March 23, 2017.
- **Saenz, A.A.**, W.A. Lisenbee, G.A. Fox, D.E. Storm, R. Will, and C. Zou. Flow and Sediment Yield Data Collection and Modeling Study of Encroached Eastern Redcedar Watersheds. Governors Water Conference, Norman, OK. October 11, 2016.
- **Saenz, A.A.**, S. Ulliman, and K.G. Linden. UV-Based Treatment for Emerging Contaminates in Oil and Gas Produced Hydraulic Wastewater. Nation's Conference for Undergraduate Research, Asheville, NC. April 6-9, 2016.
- **Saenz, A.A.**, S. Ulliman, and K.G. Linden. UV-Based Treatment for Emerging Contaminates in Oil and Gas Produced Hydraulic Wastewater. Society for the Advancement of Chicanos and Native Americans in Science National Conference, Washington, DC. October 29-31, 2015.

- **Saenz, A.A.**, S. Ulliman, and K.G. Linden. UV-Based Treatment for Emerging Contaminates in Oil and Gas Produced Hydraulic Wastewater. Oklahoma Louis Stokes Alliance for Minority Participation 21st Annual Research Symposium, Stillwater, OK. September 26, 2015.
- **Saenz, A.A.**, K. Vo, T. Autry, E. Shepherd, and G. Wilber. Effects of Varying Organic Loadings on Bio-Sand Filter Performance. National Council on Undergraduate Research, Spokane, WA. April 16-18, 2015.
- **Saenz, A.A.**, K. Vo, T. Autry, E. Shepherd, and G. Wilber. Effects of Varying Organic Loadings on Bio-Sand Filter Performance. Oklahoma Research Day, Tahlequah, OK. March 13, 2015.
- **Saenz, A.A.**, K. Vo, T. Autry, E. Shepherd, and G. Wilber. Effects of Varying Organic Loadings on Bio-Sand Filter Performance. OSU Research Week, Stillwater, OK. February 18-20, 2015.
- **Saenz, A.A.**, L. Miller-Robbie, D. Ramey, and T. Cath. Life-Cycle Assessment of Thermo-Chemical Sludge Treatment Technologies. Oklahoma Louis Stokes Alliance for Minority Participation 20th Annual Research Symposium, Stillwater, OK. September 27, 2015.

Outreach/Extension

- **Saenz, A.A.**, S. Taghaevian, and J. Veenstra. Biosystems and Agricultural Engineering – Water Module. College of Engineering, Architecture, and Engineering Summer Bridge Program, Stillwater, OK. August 2, 2017
- **Saenz, A.A.**, and H. Enlow. Stream Trailer Demonstration. Presented for a group of Chinese Visiting Scholars, Stillwater, OK, July 13, 2017

Honors & Professional Affiliations

Honors

Scholar , Hispanic Scholarship Fund	July 2017-Present
Fellow , OKLSAMP Bridge to Doctorate	Mar 2017-Present
Member , Chi Epsilon National Engineering Honor Society	Nov 2015-Present
Member , Tau Beta Pi National Engineering Honor Society	Nov 2014-Present
Ambassador , College of Engineering, Architecture, and Technology	Apr 2012-Present
Scholar , Oklahoma Louis Stokes Alliance for Minority Participation	Nov 2012-May 2016
Ambassador , TRiO Student Support Services	Aug 2013-May 2016
Mr. Hispanic-Latino Oklahoma State University	Apr 2015-Apr 2016
Cowboy Leader , Oklahoma State University	Aug 2014
Member , Inclusion Leadership Program	Aug 2012-May 2013

Profession Affiliations

Society for Advancement of Chicanos/Hispanics and Native Americans in Science
Society of Hispanic Professional Engineers

Leadership & Involvement

Leadership

American Society of Civil Engineering	
Member	Aug 2015-May 2016
Biosystems & Agricultural Engineering Graduate Student Association	
GPSGA Representative	Aug 2016-Present
Burning Black Gospel Choir	
Member	Aug 2012-Dec 2012
Hispanic Graduate Student Society	
Community Service Chair	Aug 2016-Present
Hispanic Student Association	

Member	Aug 2013-May 2016
Community Service Chair	Sep 2012-May 2013
Engineers without Borders	
Member	Aug 2013-Dec 2013
Sigma Lambda Beta International Fraternity	
Graduate Student Advisor	May 2016-Present
Treasurer	Aug 2015-Jan 2016
Treasurer, 2 nd term	Aug 2013-Dec 2013
Vice President	Aug 2014-May 2015
Vice President, 2 nd term	Jan 2013-May 2013
Membership Educator	Aug 2013-May 2014
Vice President of Internal Affairs	Aug 2012-Dec 2012
Society of Hispanic Professional Engineers	
Student Council Representative	Aug 2015-Jan 2016
President	Aug 2013-May 2015
Vice President	Jan 2013-May 2013
Secretary	Aug 2012-Dec 2012
Member	Aug 2011-May 2012
<i>Mentorships</i>	
Graduate Student Mentor , OKLSAMP Bridge to Doctorate	Jan 2017-Present
<i>Study Abroad</i>	
Greece & Italy , International Prospective on Ethics and Leadership	Summer 2015
Italy , Technology in Italy	March 2014
<i>Community Service</i>	
Undergraduate Volunteer	617 Recorded Hrs.
Graduate Volunteer	240 Recorded Hrs.

Awards & Scholarships

Fellowships & Assistantship

Robert & Jean Schuetz Graduate Fellowship	Aug 2017-May 2018
Bridge to Doctorate Fellowship	Mar 2017-May 2018
Williams Graduate Fellowship	Aug 2016-May 2017
Graduate Research Assistantship	Jun 2016-Feb 2017

Academic

CEAT Saint Patrick's Award	April 2016
Multicultural Greek Council Academic Achievement Award	April 2016
CEAT Dean's Award - Dolese Scholarship	Aug 2014-May 2016
Brent and Mary Jane Wooten Scholarship	Aug 2014-May 2016
OSU - Academic Excellence Scholarship	Aug 2011-May 2016
Oklahoma's Promise Scholarship	Aug 2011-May 2016
OSU Study Abroad - Provost Scholarship	Jan 2014-May 2014
Southwest Association of Student Assistance Programs Scholarship	Aug 2013-May 2014
College of Engineering, Architecture, and Tech. Freshman Scholarship	Aug 2011-May 2012
Oklahoma Engineering Foundation Engineering Scholarship	Aug 2011-May 2012

Service

NAACP Student Image Award	April 2016
Multicultural Greek Council Member of the Year Award	April 2016

Mr. Hispanic Latino OSU Scholarship	Aug 2015-May 2016
Wentz Leadership Scholarship	Aug 2014-May 2015
OSU Student Support Service Grant Aid Scholarship	Dec 2012-May 2013
OSU Inclusion Leadership Program Scholarship	Aug 2012-May 2013
Office of Multicultural Affairs Undergraduate Leadership Scholarship	Dec 2012-May 2013
OK- Louis Stokes Alliance for Minority Participation Award	Dec 2012-May 2015
Society of Hispanic Professional Engineers Freshman of the Year	Apr 2012-Dec 2012

Skills & Abilities

Fluent in English and Spanish
 PeakFQ & Stream Stats
 Proficient in Microsoft Office
 VBA Computer Programing
 WinTR 55
 MiniTab 17