

CURRICULUM VITAE

Reza S. Ashtiani, Ph.D.
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EDUCATION AND CERTIFICATION

- PhD:** **Texas A&M University**
Civil Engineering, Pavements and Materials Engineering, August 2009
Advisor: Dallas N. Little, Ph.D.
Dissertation: Anisotropic Characterization of Hydraulically and Chemically Bonded Aggregate Layers.
- MSc:** **Tarbiat Modares University**, Tehran, Iran, December 2001
Transportation Engineering
Advisor: Amir Kavussi, Ph.D.
Thesis: Performance Verification of Rejuvenating Agents used in Hot in-Place Recycling of Asphalt Mixes.
- BSCE:** **Azad University of Tehran, Iran**,
Civil Engineering, August 1998

PROFESSIONAL EXPERIENCE

UT El Paso, Civil Engineering**Aug. 2018– Present**

Associate Professor

- Teaching, research, and service in the areas of mechanistic characterization of civil engineering materials and multi-layer structures.

UT El Paso, Civil Engineering **Nov. 2012 – Aug. 2018**

Assistant Professor

- Teaching, research, and service in the areas of mechanistic characterization of civil engineering materials and multi-layer structures.

Applied Research Associates (ARA) Inc., Atlanta, GA **Oct. 2011 – Nov. 2012**

Senior Research Engineer

- Micro and macro surface characterization of airfield runways subjected to ultra-high pressure rubber removal techniques using non-destructive testing equipment such as Dynamic Friction Tester (DFT) and Circular Track Meter (CTM). (The US Air force Research Laboratory, AFRL).

- Application of chemical rubber removal agents such as AVION50, to restore pavement-tire frictional properties and its potential damage to military airfield runways. (The US Air Force Civil Engineering Support Agency-AFCESA)
- Wet-weather testing of crater repairs for Accelerated Damage Repair (ADR) of bomb-damaged military runways, (Army Corps of Engineers).
- Characterization of Recycled Concrete (RC) and Recycled Asphalt (RA) materials for use as pavement foundations (NCHRP-598).

Applied Research Associates (ARA) Inc., Panama City, FL..... Nov. 2009– Oct. 2011

Senior Research Engineer

- Performance characterization of precast concrete slabs installed using cementitious flowable fill, and deep injection of high density polyurethane foam, (AFRL).
- Sustainment repair of airfield runways using precast concrete slabs in austere conditions, (AFRL).
- Anisotropic stress path testing protocol for characterization of unbound granular layers in airfield runways.
- Application of alkali-activated geo-polymers for heat resistance concrete slabs used in military runways, (AFRL).
- Pelletized asphalt, as high performance runway repair materials, (AFRL).

Texas Transportation Institute (TTI).....Aug. 2009-Oct. 2009

Post Doctorate – Assistant Transportation Researcher

- Feasibility study on the use of hydrated lime as an anti-stripping agent in hot mix asphalt, (National Lime Association, NLA).

International Center for Aggregate Research (ICAR), Texas A&M, Jan. 2004 – Aug. 2009

Graduate Research Assistant

- ICAR 508/A: “Methodology for designing aggregate mixtures for base courses”, (ICAR).
- ICAR 508/B: “TTI-Pave design software and user’s manual”, (ICAR)
- Design of Bull Run highway based on inverted pavement concept for Lucktone Co. Ltd., Richmond, VA.
- ICAR 506:” Acceptability criteria for unbound and chemically stabilized high fine content aggregate layers”, (ICAR).
- Determination of the anisotropic material properties for the mechanistic design of highway SH-130, Round Rock, Austin.

Shabdar Engineering Consultants, Tehran, Iran.....July 1998 – November 2003

Transportation and Traffic Engineer

- Contributed to several projects sponsored by Tehran’s municipality on developing master plans, geometric design of intersections, signalized intersections, and network level assessment of the level of service in urban arterials.

Disman Saz Co. Ltd., Tehran, Iran.....April 1994 – May 1998

Assistant Site Engineer- Engineering Intern

- Surveying assistant for Karaj expressway widening project.
- Assistant site engineer for construction of culverts, precast concrete median, and pretension concrete elements used in heavy construction.
- Assistant site supervisor for post-tensioned Parkway bridge decks.

PUBLICATIONS

- Asadi, M. and **Ashtiani, R.**, “Stability Analysis of Anisotropic Granular Base Layers in Flexible Pavements”, Elsevier Journal of Transportation Geotechnics, Vol. 14, pp. 183-189, 2018. (<https://doi.org/10.1016/j.trgeo.2018.01.001>)
- **Ashtiani R.**, and Rashidi, M. “A Neural Network based Model for the Estimation of the Anisotropic Parameters of Unbound Aggregate Systems”, Elsevier Journal of Transportation Geotechnics, Vol. 15, pp- 4-12, 2018. (<https://doi.org/10.1016/j.trgeo.2018.02.002>)
- **Final Report: Ashtiani, R.** and Bill Tseng; “A Novel Approach for the Characterization of the Rutting Performance of Pavement Foundations”, University Transportation Centers Program, Washington D.C., October 2017. (<https://trid.trb.org/view/1500365>)
- Rashidi, M., **Ashtiani, R.**, J, Si, J, Izzo, R., and McDaniel, M., “A practical Approach for the Estimation of the Strength and Resilient Properties of Cementitious Materials”, Accepted for Publication in the Transportation Research Record (TRR), Journal of Transportation Engineering, 2017.
- **R. Ashtiani**, Tarin, J, Si, J, Izzo, R., “Laboratory Characterization of the Cement Stabilized Materials for Heavy Duty Pavement Foundation”, Under Review, Submitted to the Journal of Construction and Building Materials, 2017.
- Arteaga, U., **Ashtiani, R.**, “Analysis of Cyclic Behavior of Geomaterials Using Dissipated Energy Concept”. Proceedings of the ASCE’s International Conference on Highway Pavements and Airfield Technology, August 2017, pp. 322-333.
- **Ashtiani, R.**, Asadi, M., “Application of Statistical Pattern Classification Methods for Characterization of Pavement Foundations.”, Proceedings of The 10th international Conference on the Bearing Capacity of Roads, Railways and Airfields, Athens, Greece, June 2017.
- **Ashtiani, R.**, Asadi, M., Stability Control of the Unbound Aggregate Base in Multi-Layer Pavement Structures., Proceedings of the ASCE’s International Conference on Highway Pavements and Airfield Technology, August 2017, pp. 35-44.
- Arteaga, U., **Ashtiani, R.**, (2017). Permanent Deformation Prediction of Unbound Granular Layers with Varying Moisture and Fines Content using Constant Confining Pressure Stress Paths, Transportation Research Board (TRB) Annual Meeting Proceedings, Washington D.C., January 2017.

- **Ashtiani, R.**, Pullen, B., Hammons, M, “Comparison of Water Blasting Equipment for the Airfield Surface Decontamination”, ASCE Journal of Materials in Civil Engineering, Vol.28, Issue 8, August 2016.
- ***Final Report: Ashtiani, R.*** and Tarin J.A. “Updated Testing Protocols for Heavy Duty Cement Stabilized Bases”. Tx-06812, Austin, TX, August 2016.
- Dhakal S. and **Ashtiani, R.**, “Effect of Different Levels of Moisture Intrusion on the Dynamic Modulus and Tensile Properties of Dense Graded Hot Mix Asphalt Using a Cyclic Moisture Induced Stress Tester”. Proceedings of the ASCE’s International Conference on Transportation and Development (T&DI), July 2016.
- **Ashtiani, R.** and De Haro, G. “Temperature Sensitivity of Precast Concrete Panels Used for the Repair of the Rigid Pavements”. Proceedings of the ASCE’s International Conference on Transportation and Development (T&DI), July 2016.
- ***Final Report: Ashtiani, R.*** and De Haro, G. “Performance Determination of the Precast Concrete Slabs used for the Repair of the Rigid Pavements” CAIT.UTC-017- Piscataway, NJ, October 2014.
- **Ashtiani R.**, A. Saeed and M. Hammons, “Mechanistic Characterization and Performance Evaluation of Recycled Aggregate Systems”. ASCE Journal of Materials in Civil Engineering, Vol.26, Issue 1, January 2014, pp. 99-106.
- ***Book Chapter:*** The Aggregate Handbook, "Chapter 13: Impact of Properties of Aggregates on Pavement Design and Analysis", Second Edition, National Stone, Sand and Gravel Association (NSSGA), 2013.
- Aaron Pullen, **Reza Ashtiani**, Brian Cotter, Athar Saeed and Lulu Edwards, “Airport Rubber Removal: A Comparison of Ultra-High Pressure Runway Rubber Removal Systems” Proceedings the Airfield and Highway Pavement 2013: Sustainable and efficient Pavements, ASCE T&DI, June 2013, PP. 677- 690.
- Sung-Hee Kim, **Reza Ashtiani**, David Vaughan, Jeffery Des Islets and Samuel Beadles. "Use of Recycled Concrete Materials as Aggregate Base Layers". Proceedings of the Airfield and Highway Pavement 2013: Sustainable and efficient Pavements, ASCE T&DI, June 2013, pp. 1264-1277.
- **Ashtiani R.** and Saeed A. “Mechanistic Performance Characterization of Pavements Incorporating Recycled materials”, Proceeding of the GeoCongress-2012 Symposium, Oakland CA, March 2012.
- Saeed A., **Ashtiani R.**, Boudreau R., “Performance Related Aggregate Testing Protocol for Sustainable Design of Recycled Pavements”, Journal of ASTM International (JAI), Vol. 8, No. 7, July 2011.
- **Salehi Ashtiani R.**, R. Lou and R.L. Lytton, “Performance Prediction and Moisture Susceptibility of Anisotropic Foundations”; ASCE (American Society of Civil Engineers)

Paving Materials and Pavement Analysis, Geotechnical Special Publication (GSP203), Proceedings of 2010 Geo-Shanghai International Conference, August 2010, pp.327-334.

- **Salehi R.**, D. N. Little and E. Masad. Material Factors that Influence Anisotropic Behavior of Aggregate Bases, in Transportation Research Record (TRR) : Journal of Transportation Research Board, No. 2059 , Transportation Research Board of National Academics, Washington D.C. , 2008, pp.20-30
- **Salehi R.**, D. N. Little and E. Masad. Anisotropy Level Prediction Model for Unbound Aggregate Systems. Published in the Proceedings of the First International Conference on Transportation Geotechnics, UNBAR7, Nottingham, UK, August 2008.
- **Salehi Ashtiani R.**, D. N. Little and E. Masad. Evaluation of Impact of Fines on the Performance of Lightly Cement Stabilized Aggregate Systems. in Transportation Research Record (TRR) : Journal of Transportation Research Board, No. 2026 , Transportation Research Board of National Academics, Washington D.C. ,2007, pp.81-88
- D. Little, **Salehi R.** and E. Masad, “Characterization of Anisotropic Base Materials with High Fines Content”. Proceedings of the International Conference on Advanced Characterization of Pavement and Soil Engineering Materials, Athens, Greece, June 2007.

PRESENTATIONS

- “Geotechnical Aspects of the Lunar Regolith Simulants”, Johnson Space Center (JSC), NASA, Houston, TX, August 15th, 2018.
- “Analysis and Design of Inverted Pavements, Challenges and Opportunities”, ASCE Conference, Ames, Iowa, March 22nd, 2018.
- “Application of Energy Methods for the Design of Pavement Foundations”, ASCE Geo Institute Conference, San Antonio, TX, March 9th, 2018.
- “A practical Approach for the Estimation of the Strength and Resilient Properties of Cementitious Materials”, Scheduled for Presentation at the 97th Annual Meeting of the Transportation Research Board (TRB), Washington DC, January, 2018.
- “Analysis of Cyclic Behavior of Geomaterials Using Dissipated Energy Concept”, Presentation at the ASCE’s International Conference on Highway Pavements and Airfield Technology, Philadelphia, PA, August 30th, 2017.
- “Stability Control of the Unbound Aggregate Base in Multi-Layer Pavement Structures”, Presentation at the ASCE’s International Conference on Highway Pavements and Airfield Technology, Philadelphia, PA, August 28th, 2017.
- “Permanent Deformation Prediction of Unbound Granular Layers with Varying Moisture and Fines Content using Constant Confining Pressure Stress Paths, Presented at the 96th Annual Meeting Transportation Research Board (TRB), Washington DC, January 9th, 2017.

- “Analysis and Design of Inverted Pavements, Texas and Virginia Experiences”, Presented at the 96th Annual Meeting Transportation Research Board (TRB), Washington DC, January 8th, 2017.
- “Laboratory Test Methods for the Characterization of the Fatigue Life of the Cement Stabilized Base Layers in Texas”, Workshop Conducted for TxDOT Districts, El Paso, TX, August 29th, 2016
- “Effect of Different Levels of Moisture Intrusion on the Dynamic Modulus and Tensile Properties of Dense Graded Hot Mix Asphalt Using a Cyclic Moisture Induced Stress Tester”. Presented at the ASCE’s International Conference on Transportation and Development (T&DI), Houston, TX, July 27th, 2016.
- “Temperature Sensitivity of Precast Concrete Panels Used for the Repair of the Rigid Pavements”. Presented at the ASCE’s International Conference on Transportation and Development (T&DI), Houston, TX, July 28th, 2016.
- “Laboratory Characterization of the Fatigue Performance of Cement Stabilized Materials in Texas”. Presented at the ASCE Geo-Institute Conference, Geo-San Antonio, San Antonio, TX, March 18th, 2016.
- "Mechanistic-Empirical Design of Inverted Pavements, Experience in BullRun Virginia", Presented at the 95th Annual Meeting Transportation Research Board (TRB), Washington DC, January 11th, 2016.
- “Characterization of the Fatigue Performance of the Chemically Stabilized Materials Tailored Towards the Construction and Repair of Military Airfield Runways”, Workshop Conducted for the Representatives of the US Air Force Research Laboratory (AFRL), November, 2015.
- "Challenges and Opportunities in the New Mechanistic-Empirical Pavement Design", Presented for the Texas Chapter for the American Society of Civil Engineers (ASCE), El Paso TX, June 24th, 2015.
- "Airport Rubber Removal: A Comparison of Ultra-High Pressure Runway Rubber Removal Systems "Presented in the ASCE Airfield and Pavement Conference, ASCE T&DI, Los Angeles CA, June 11th, 2013.
- "Use of Recycled Concrete Materials as Aggregate Base Layers". Presented in the ASCE Airfield and Pavement Conference, ASCE T&DI, Los Angeles CA, June 11th, 2013.
- "Optimum Use of Local Materials for Roadway Bases and Sub-bases" Presented in the ASCE Airfield and Pavement Conference, ASCE T&DI, Los Angeles CA, June 10th, 2013.
- "Mechanistic Performance Characterization of Pavements Incorporating Recycled materials”, Presented in GeoCongress-2012 Symposium, Oakland CA, March 26th, 2012.
- “Performance Characterization of Precast Concrete Panels for Rapid Repair of Military Runways”, Transportation Systems Workshop, Austin, Texas March 8th, 2012.

- “Mechanistic Characterization and Performance Evaluation of Recycled Aggregate Systems”, 91st Annual Meeting of Transportation Research Board (TRB), Washington D.C., January 2012.
- “Use of Recycled Aggregate Systems as Unbound Aggregate Base layers”, the American Society of Civil Engineering (ASCE) Annual Meeting in St. Augustine FL, July 15th, 2011.
- “Field Evaluation of Rigid Pavement Repairs using Precast Concrete Panels”, the American Society of Civil Engineering (ASCE) Annual Meeting in St. Augustine FL, July 15th, 2011.
- “Anisotropic Characterization of Pavement Foundations” Presentation in 2011 Engineering Mechanics Institute EMI-2011 conference, Boston, MA. June 3rd 2011.
- “Inverted Pavement Demonstration/Workshop”, Technical Seminar and Technology Transfer Workshop on Inverted Pavements. Manassas VA. May 25th, 2011.
- “Performance Related Aggregate Testing protocol for Sustainable Design of Recycled Pavements”, International Symposium on Testing and Specification of Recycled Materials for Sustainable Geotechnical Construction, Baltimore MD, February 2nd 2011.
- “Pre-cast Concrete panels for Contingency Repair of Airfield Runways”, 90th Annual Meeting of Transportation Research Board, January 25th 2011, Washington D.C., January 25th 2011,
- “Performance Evaluation of Pre-cast Slabs for Contingency Rigid Airfield Pavement Damage Repair”, Pavement Evaluation Conference, Roanoke VA, October 26th 2010.
- “Application of FWD in Performance Characterization of Pre-Cast Panels used in Rapid Repair of Severely Damaged Airfield Runways” Presented at 19th Annual FWD (Falling Weight Deflectometer) Users Group Meeting, Gainesville, FL September 20th 2010.
- “Review and Update on Current ICAR Design Project”, ICAR Technical Advisory Committee and FHWA (Federal Highway Administration) Technical Work Group, Alexandria Virginia, June 30th, 2010.
- “Evaluation of the Impact of Lime on Pavement Performance using Dynamic Mechanical Analysis” National Lime Association (NLA) meeting, University of Nevada at Reno, Reno Nevada, October 6th 2009.
- “New Design Methodology for Pavement Foundations”, 17th Annual ICAR (International Center or Aggregate Research) Symposium, Austin, Texas, May 2009.
- “VDOT & Luck Stone By-Pass Project: Use of Inverted Base Techniques”, 2nd National Aggregate Base Conference, Orlando, Florida, March 2009.
- “Material Factors That Influence Anisotropic Behavior of Aggregate Bases”, 87th Annual Meeting of Transportation Research Board, Washington D.C., January 2008.
- “Anisotropic Modeling of Unbound Aggregate Bases”, Invited Speaker, Aggregate Base

Symposium Kansas-Missouri, Kansas, May 2007.

- “Optimizing the Performance of Base Layers with High Fines Content”, presented at 15th annual ICAR Symposium, Austin, Texas, April 2007.
- “Evaluation of Impact of Fines on the Performance of Lightly Cement Stabilized Aggregate Systems”, the 86th Annual Meeting of Transportation Research Board, Washington D.C., January 2007.
- “Characterization of the Bitumen Additives in Recycled Asphalt”, First National Symposium on Polymer Modified Binders, Iran Polymer Institute. Tehran, Iran, December 17th 2002.

FUNDED RESEARCH PROJECTS

- **PI:** Texas Department of Transportation (TxDOT), **\$404k**, “Tx-06949 “Soil-Cement Design and Construction”, Summer 2017 – Summer 2020.
- **PI:** Texas Department of Transportation (TxDOT), **\$334k**, “Tx-06965 “Characterization and Quantification of the Traffic Load Spectra in the Texas Overweight Corridors and Energy Sectors”, Summer 2017 – Summer 2019.
- **PI:** A Novel Approach for the Characterization of the Rutting Performance of Pavement Foundations, **\$90k**, Funded by the Southern Planes University Centers (SPTC) through US Department of Transportation (USDOT), December 2015 - December 2017.
- **Co-PI:** National Highway Research Program (NCHRP), **\$500k**, “Evaluating Mechanical Properties of Earth Materials during Intelligent Compaction, NCHRP 24-45, Spring 2015-Spring 2018.
- **PI:** Winner of the Scholarship of Teaching and Learning (SoTL) proposal, **\$5k**, “Exploring Students’ Conceptions about Engineering Research and Scientific Writing”. UTEP’s Center for Excellence in Teaching and Learning (CEtAL), January 2015 – December 2015.
- **PI:** Texas Department of Transportation (TxDOT), **\$297k**, “Tx-06812 Updated Testing Protocols for Heavy Duty Stabilized Bases”, April 2014 – August 2016.
- **PI:** Federal Highway Administration (FHWA) through Rutgers University, **\$45k**, “Performance determination of Precast Concrete Slabs used for the Repair of Rigid Pavements”, January 2013 – December 2014.
- **PI:** Applied Research Associates (ARA), Inc. through the US Department of Defense (DoD), **\$25.2k**, “Airbase Operating Surfaces Technical Support, Task Order #2”, January 2013 – September 2013.

DISSERTATION AND THESIS ADVISING

- *Committee Chair:* Rashidi, Mohammad, Ph.D. Dissertation, Civil Engineering (Expected: December 2019), UTEP
Title: Performance Characterization of Cement Stabilized Pavement Foundations.

- Committee Chair: Mojtaba Asadi, Ph.D. Dissertation, Civil Engineering (Expected: December 2018), UTEP.
Title: Application of Pattern Recognition Techniques in Geomaterial Classification.
- Committee Chair: Jianxin Yu, Ph.D. Dissertation, Civil Engineering (Expected: May 2018), UTEP.
Title: Application of Energy Methods to Identify the Fatigue Life of the Cementitiously Stabilized Aggregate Systems.
- Committee Chair: Carlos Licon, MSc. Thesis, Civil Engineering (Expected: December 2018), UTEP
Title: Quantification of the Axle Load Spectra for Infrastructure Damage Quantification in the Eagle Ford Shale Region.
- Committee Chair: Uriel Arteaga, MSc. Thesis, Civil Engineering (December 2016), UTEP
Title: Variable Confining Pressure Stress Path Tests for the Characterization of the Permanent Deformation of Pavement Foundations.
- Committee Chair: Jose Tarin, MSc. Thesis, Civil Engineering (May 2017), UTEP
Title: Acceptability Criteria for the Cement Stabilized Pavement Foundations.
- Committee Chair: Luis Gonzalez, MSc. Thesis, Civil Engineering (Expected: December 2017), UTEP
Title: Sensitivity Analysis of the Unbound Granular Layers in the Mechanistic Empirical Design Guide.
- Committee Member: Shahab Shirazi, MSc. Thesis, Civil Engineering (Completed December 2015), UTEP
Title: A Rapid Approach for Considering Nonlinear Response of Flexible Pavements Under FWD And Estimation of Remaining Lives of Pavements.
- Committee Member: Paul Delgado, Ph.D. Dissertation, Computational Science, (March 2015), UTEP
Title: A Heterogeneous Multi-Scale Method for Poroelasticity.
- Committee Chair: Gabriel De Haro, MSc. Thesis, Civil Engineering (December 2015), UTEP
Title: Temperature Sensitivity of Load Transfer Efficiency of Pre-cast Concrete Slabs.
- Committee Chair: Sarvesh Dhakal, MSc. Thesis, Civil Engineering (April 17th, 2015), UTEP
Title: Moisture Susceptibility of Dense graded Asphalt Concrete Using Cyclic Moisture Induced Tester.
- Committee Member: Rafael Ramirez, Ph.D. Dissertation, Civil Engineering (May 2015), UTEP
Title: A Stochastic Approach for pavement Condition Projections and Budget Needs for the MTC Pavement management Systems.

TEACHING ACCOMPLISHMENT

❖ Developed Courses

- **CE 4348-Lecture Sessions** – Introduction to Geotechnical Engineering (Spring 2013-Spring 2015 every semester, Spring of 2016, and Spring 2017).

- **CE 4348-Laboratoy Sessions**– Introduction to Geotechnical Engineering (Spring 2013- Spring 2015 every semester, Spring of 2016, and Spring 2017).
- **CE2315**- Statics (Fall 2016, and Fall 2017).
- **CE 5320** - Advanced Geotechnical Engineering (Fall 2014, and Fall 2016).
- **CE5390**- Unsaturated Soil Mechanics (Fall 2015, and Fall 2017).
- **CE 5351** - Mechanistic Analysis and Design of Pavements (Spring 2014, 2015, and 2016).
- **CE5390**- Stabilization of Granular Soils (Spring 2017).

❖ **Summary of Teaching Evaluations**

<i>Academic Semester</i>	<i>Course</i>	<i>Course Title</i>	<i>CRN</i>	<i>Response Rate</i>	<i>Overall Rating of the Professor</i>	<i>Overall Rating of the Course</i>
Spring 2013	CE4348	Geotech. Eng.	27224	71%	4.9	4.8
Fall 2013	CE4348	Geotech. Eng	12292	69%	5	4.8
	CE4348	Geotech. Eng	12294	68%	5	4.8
	CE4348	Geotech. Eng	12296	44%	5	5
Spring 2014	CE5351	Pavement Analysis/Design	27168	62%	4.8	4.6
	CE4376	Adv. Topics II	25929	83%	5	5
	CE4348	Geotech. Eng.	24338	93%	4.8	4.7
Fall 2014	CE5320	Adv. Geotech.	17467	50%	4.9	4.9
	CE4348	Geotech. Eng.	12152	69%	4.9	4.7
	CE4348	Geotech. Eng.	12150	71%	4.9	4.8
Spring 2015	CE5351	Pavement Analysis/Design	27901	42%	4.9	4.6
	CE4348	Geotech. Eng.	23860	38%	4.8	4.7
	CE4376	Adv. Topics II	27850	50%	4.9	4.6
	CE4375	Adv. Topics I	27842	17%	4.9	4.6
Fall 2015	CE 5390	Unsaturated Soil Mechanics	15392	100%	4.9	4.7
	CE4348	Geotech. Eng.	11990	34%	5	4.9
	CE4348	Geotech. Eng.	11989	31%	5	5
Spring 2016	CE5351	Pavement Analysis/Design	26299	63%	5	4.9
	CE4348	Geotech. Eng.	28772	27%	4.8	4.7
	CE4348	Geotech. Eng.	28771	59%	4.6	4.5
	CE4348	Geotech. Eng.	28767	12%	5	5
	CE4348	Geotech. Eng.	23536	35%	4.8	4.8
	CE4375	Adv. Topics I	26246	63%	5	4.9
Fall	CE2315	Statics	18076	24%	4.75	4.75

2016	CE5320	Adv. Geotech.	17467	50%	4.9	4.8
	CE4376	Adv. Topics II	25929	43%	4.9	4.8
Spring 2017	CE 5390	Soil Stabilization	28670	50%	4.4	4.6
	CE3348	Geotech. Eng.	28153	50%	4.6	4.9
	CE3348	Geotech. Eng.	28152	61%	4.9	4.8
	CE3348	Geotech. Eng.	28150	52%	4.9	5
	CE3348	Geotech. Eng.	28147	53%	4.9	4.9
Average					4.9	4.8

SERVICE AND HONORS

Academic and Professional Honors

- UTEP's Office of Research and Sponsored Projects (ORSP) Award for Outstanding Efforts to Secure Nearly \$740k External Funding for Two TxDOT Projects, September 2017.
- UTEP's Office of Research and Sponsored Projects (ORSP) Award for Outstanding Efforts to Secure External Funding, May 2016.
- Certificate of Appreciation, ASCE Texas Section, El Paso Branch, June 2015.
- CETaL Award for Scholarship of Teaching and Learning (SoTL), March 2015.
- UTEP's Office of Research and Sponsored Projects (ORSP) Award for Outstanding Efforts to Secure Nearly \$300k External Funding, September 2014.

Service within the University of Texas at El Paso

- UTEP, Geological Science Department, Member of Faculty Search Committee for New Faculty Hire in Shallow/Environmental Geophysics, (Summer 2017-Spring 2018).
- UTEP, University Committee, Represented the College of Engineering at the UTEP's Top 10 Senior's Committee, December 2016- May 2017.
- UTEP, Civil Engineering Department, Chair of Faculty Search Committee for New Faculty Hire in Structural Engineering, (August 2015-March 2016)
- UTEP, College of Engineering, Member of the Selection Committee for the Best Thesis and Dissertation Awards, (Spring 2015-Present).
- UTEP, Civil Engineering Department, Faculty Mentor for Transportation Research Board, National Academies, Minority Student Program (2014 Academic Year).
- UTEP Civil Engineering Department, Faculty Advisor for ASCE Concrete Canoe (Fall 2013 – Spring 2015).

- UTEP, Civil Engineering Department, Undergraduate Advising Program, (September 2013 - Present).
- UTEP, Civil Engineering Department, Senior Design Project, Faculty Mentor for several Teams (2013-Present).
- UTEP, Civil Engineering Department, Senior Design Evaluation Panel Member, (Spring and Fall of 2014).

Professional Memberships

- Transportation Research Board, The National Academies of Science
 - ✓ AFP70- Mineral Aggregates Committee – Since 2013
 - ✓ AFS20- Modeling for Design, Construction and Management of Geosystems Committee-Since 2013.
- American Society of Civil Engineers (ASCE)
- ASCE's Geo-Institute, GI-Pavements
- National Stone, Sand, and Gravel Association (NSSGA)
- Aggregate Foundation for Technology, Research and Education (AFTRE)

Professional Service

- ***Associate Editor***, ASCE's Journal of Transportation Engineering, Part B-Pavements.
- ***Committee Research Coordinator (CRC)***, TRB's AFP70-Aggregate Committee.
- ***Session Chair***, The ASCE's Geo-Congress 2019, Pavement Section, Philadelphia, PA March 24th to 27th 2019.
- ***Member of the Organizing and Scientific Committee***, ASCE's Transportation and Development Institute (T&DI) Conference, 2014.
- ***Session Chair and Moderator***, ASCE's International Conference on Highway Pavements and Airfield Technology, Track B-Materials, B8. Unbound Granular Materials Characterization for Base and Sub-Base Applications, Philadelphia, PA, August 2017.
- ***Presiding Officer and Moderator***, 97th Transportation Research Board (TRB) Annual Meeting, AFP70-Aggregates Committee-Session "Evaluating and Characterizing Aggregates and Granular Materials", Washington D.C., Scheduled for January 2018.
- ***Reviewer***, International Journal of Pavement Engineering (IJPE), Taylor and Francis
- ***Reviewer***, ASCE's Journal of Materials in Civil Engineering

- ***Reviewer***, ASCE's Journal of Geotechnical and Geo-Environmental Engineering
- ***Reviewer*** of Transportation Research Record (TRR) Journal, National Academy of Science
- ***Reviewer***, Journal of Construction and Building Materials, Elsevier