

FACULTY VITAE –IFTEKHAR AHMED

1. Name: Iftekhar Ahmed

Academic Rank: Associate Professor

2. Education & Degree (degree, discipline, institution, year)

Ph.D.,	Water Resources,	University of Arizona,	2001
M.S.,	Hydraulics,	University of Arizona,	1997
B.S.,	Civil Engineering,	University of Arizona,	1995

3. Academic Experience (period, institution, rank)

2015 – present	Prairie View A&M University,	Associate Professor
2009 – 2015	Prairie View A&M University,	Assistant Professor

4. Non-academic Experience

2002 – 2006	Sr. Water Resources Engr,	WEST Consultants
2002 – 2006	Project Engineer,	Stantec Consultants

5. Certification and Professional Registration:

Professional Engineer, States of Texas, and Arizona

6. Current Membership in Professional Organizations:

ASCE, Tau Beta Pi

7. Honors & Awards

- Academic Tenure and Promotion, September 2015
- Finalist, PVAMU President's Teaching Award, 2015
- College of Engineering Outstanding Teacher Award, 2014 (Awarded, 2015)
- ASCE *Journal of Hydrologic Engineering*, Outstanding Reviewer, 2014
- ASCE Chapter Faculty Advisor Recognition Certificate from ASCE Student Services, ASCE Headquarters, Reston, VA, Spring 2014
- Outstanding Service Award: Garrett A. Morgan Transportation Summer Camp, Co-Director, Summer, 2012

8. Service Activities (within and outside of the institution)

Reviewer for McGraw-Hill, Proposal for New 11th Edition of *Fluid Mechanics with Engineering Applications*, 10th Edition, by Finnemore and Franzini, May 2021.
ABET Assessment Coordinator for the Department (2011-Present)
Department TaskStream Program Coordinator, Summer 2013 – Present
Tenure Promotion Committee Member for Mechanical Engineering Dept. (Fall 2018)
Secretary, University Faculty Senate, September 2017 – May 2018
Committee on College Standard Operating Procedures Manual, Spring 2018
COE Math Curriculum Review Committee, Fall 2013 - Spring 2014
Department Labs Upgrade/Enhancement Activity Coordinator, Fall 2010 - 2017

Instructor and Laboratory Module Developer, Freshman Engineering Laboratory for Math II (Calculus I), College of Engineering, 2009 – 2012
Co-Director, G.A. Morgan Transportation Summer Camp, Sponsor: USDA, Summers 2012 and 2013
Served as Reviewer for ASCE Journals of Hydrology, Hydraulics and WRPMD
Chair, Department Committee on Online Course Transfer, CEE, Fall 2012

9. Selected Publications and Presentations

- Ahmed, I., Karim, A., Boutton, T.W., and Strom, K.B. (2019). “On the Prediction of Uncertainty in a Sediment Provenance Model,” *Res Adv Environ Sci.*, 1: 45-60.
<https://doi.org/10.33513/RAES/1901-08>
- Gerlach, R.M., Ahmed, I., Beckman, N.D., and Karim, A. (2016). “The Utility of HEC-1 Flood Hydrograph Package in Distributed Flow Guided Area Drainage Master Plan Discharges Verification in a Desert Environment,” *Int. J. of Hydrology Sci. & Tech.*, 6(3),
<http://dx.doi.org/10.1504/IJHST.2016.077397>
- Zhang, K., Wang, J., Ahmed, I., and Gowda, P.H. (2016). “Advances in Remote Sensing and Modeling of Terrestrial Hydrometeorological Processes and Extremes,” Editorial, *Advances in Meteorology*, Vol. 2016, Special Issue, <http://dx.doi.org/10.1155/2016/4371840>
- Ahmed, I., Boutton, T.W., Karim, A., Strom, K.B., and Fox, J.F. (2013). “Monitoring Soil Organic Carbon Loss from Erosion Using Stable Isotopes.” *Proc.*, Soil Carbon Sequestration Conference, May 26-29, Reykjavik, Iceland, Publ.: Soil Conservation Services of Iceland.
- Ahmed, I., and Gerlach, R.M. (2012). “Distributed Flow Guided Hydraulic Modeling of a Desert River System for Flood Control.” *Proc.*, River Flow 2012, September, San Jose, Costa Rica.
- Ahmed, I., and Freeman, G.E. (2012). “Historic Changes in the Salt River Bed Stability and its Implications on a Flood Control Levee Design.” *Proc.*, River Flow 2012, September, San Jose, Costa Rica.
- Ahmed, I., Karim, A., Boutton, T.W., Strom, K.B., and Fox, J.F. (2013). “Watershed Scale Stable Isotope Distribution and Implications on Soil Organic Carbon Loss Monitoring under Hydrologic Uncertainty.” *Proc.*, American Geophysical Union (AGU) Annual Meeting, December 9-13, San Francisco, CA.
- Karim, A., Ahmed, I., Boutton, T.W., Strom, K.B., and Fox, J.F. (2013). “Decision Support System to Guide Land Use Fingerprinting Using Stable Isotopes under Hydrologic Uncertainty.” *Proc.*, American Geophysical Union (AGU) Annual Meeting, December 9-13, San Francisco, CA.
- Karim, A., Irvin-Smith, N., Ewot, A., and Ahmed, I. (2013). “Ensemble Prediction of Water Erosion Yield from Markov Chain Rainfall Series.” *Proc.*, 11th TAMUS Pathways Symposium, November 8, Kingsville, TX.

FACULTY VITAE – MD JOBAIR BIN ALAM

1. **Name:** Md Jobair Bin Alam
Academic Rank: Assistant Professor

2. **Education & Degree** (degree, discipline, institution, year)

Ph.D. Civil Engineering, University of Texas at Arlington, Texas	2017
B.S. Civil Engineering, Bangladesh University of Engineering and Technology	2011

3. **Academic Experience** (Period, institution, rank)

2019 – Present	Prairie View A&M University,	Assistant Professor
2017 – 2019	University of Texas at Arlington,	Post-Doctoral Research Associate

4. **Non-academic Experience**

02/2020 – 08/2020	Staff Engineer, Terra Testing, LLC
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5. **Certification and professional registrations**
 - Texas Board of Professional Engineers License: # 138173

6. **Current Membership in Professional Organizations:**
 - Member (M), American Society of Civil Engineers (ASCE) (#10406672)
 - Member, Unsaturated Soil Committee, ASCE
 - Member, Geophysical Engineering Committee, ASCE
 - Member, Foundation Performance Association (FPA)
 - Member, Fabricated Geomembrane Institute (FGI)

7. **Honors & Awards**
 - 1st Place Award in Solid Waste Association of North America’s (SWANA) ‘National Solid Waste Design Competition’, 2016

8. **Service Activities** (within and outside of the institution)

• Advisor, ASCE Student Chapter of PVAMU	2020-present
• Associate Advisor, ASCE Student Chapter of PVAMU	2020-present
• Freshman Advisor of CEE	2019-present
• COE Dean’s Executive Committee	2020-present

9. **Selected Publications and Presentations**
 - Alam, M. J. B., Rahman, N., Seraj, F., & Hossain, M. S. Monitoring and Evaluation of Evapotranspiration of Water Balance Cover. In IFCEE 2021 (pp. 169-178).
 - Alam, M. J. B., Rahman, N., Bhandari, P., & Hossain, M. S. Behavior of Unsaturated Hydraulic Conductivity of Water Balance Cover Measured through Field Instrumentation. In IFCEE 2021 (pp. 330-338).
 - Alam, M. J. B., Ahmed, A., Islam, M. A., Rahman, N., & Hossain, M. S. (2021). Field monitoring and model predicted water balance of monolithic cover. In MATEC Web of Conferences (Vol. 337, p. 04009). EDP Sciences.

- Alam, M. J. B., Ahmed, A., Hossain, M. S., & Rahman, N. (2021). Estimation of percolation of water balance cover using field scale unsaturated soil parameter. In MATEC Web of Conferences (Vol. 337, p. 04005). EDP Sciences.
- Ahmed, A., Alam, M. J. B., Pandey, P., & Hossain, M. S. (2021). Estimation of unsaturated flow parameters and hysteresis curve from field instrumentation. In MATEC Web of Conferences (Vol. 337, p. 01008). EDP Sciences.
- Ahmed, A., Alam, M. J. B., Islam, M. A., & Hossain, M. S. (2021). Comparison of numerical modeling results from laboratory and field obtained unsaturated flow parameters. In MATEC Web of Conferences (Vol. 337, p. 02008). EDP Sciences.
- Alam, M. J. B., Sarker, L., Sapkota, A., Ahmed, R., & Hossain, M. S. (2020, February). Evaluation of Soil Water Storage (SWS) of Evapotranspiration Cover through Geophysical Investigation. In Geo-Congress 2020: Modeling, Geomaterials, and Site Characterization (pp. 444-453). Reston, VA: American Society of Civil Engineers.
- Alam, M. J. B., DeVries, B., Rahman, N., & Hossain, M. S. (2019, March). Field Hydrologic Performance of Water Balance Cover in North Texas. In Geo-Congress 2019: Geoenvironmental Engineering and Sustainability (pp. 95-104). Reston, VA: American Society of Civil Engineers.
- Alam, M. J. B., & Hossain, M. S. (2019, March). Evaluation of Post-Construction Changes in Soil Hydraulic Properties through Field Instrumentation and In Situ Testing. In Geo-Congress 2019: Geotechnical Materials, Modeling, and Testing (pp. 722-732). Reston, VA: American Society of Civil Engineers.
- Alam, M. J. B., Hossain, M. S., Sarkar, L., & Rahman, N. (2019, March). Evaluation of Field Scale Unsaturated Soil Behavior of Landfill Cover through Geophysical Testing and Instrumentation. In Geo-Congress 2019: Geoenvironmental Engineering and Sustainability (pp. 1-11). Reston, VA: American Society of Civil Engineers.
- Hoyos, L., Alam, M. J. B., Hossain, M. S., & Haney, B. (2019, March). Monitoring Seasonal Variation of Soil Hydraulic Conductivity of Evapotranspiration (ET) Cover. In Geo-Congress 2019: Geoenvironmental Engineering and Sustainability (pp. 72-81). Reston, VA: American Society of Civil Engineers.
- Bin Alam, M. J., Hossain, M. S., Ahmed, A., & Khan, M. S. (2017). Comparison of Percolation of Flat and Slope Section Vegetated Lysimeters Using Field Soil Water Characteristic Curve. In PanAm Unsaturated Soils 2017 (pp. 28-37).
- Ahmed, A., Hossain, M. S., Bin Alam, M. J., & Khan, M. S. (2017). Moisture and Matric Suction Behavior in Unsaturated Subgrade through Field Instrumentation and Numerical Modeling. In PanAm Unsaturated Soils 2017 (pp. 226-235).

10. Brief List of Most Recent Professional Development Activities

- Reviewer For: Geotechnical and Geological Engineering
- Reviewer For: American Society of Civil Engineers' Geo-Institute (G-I)-Special Publication
- Invited Talk, ASCE Civil Engineering Conference (CECON), Nov 4 - 6, 2020, San Marcos, TX (Virtual).
- Invited Talk, ASCE Civil Engineering Conference (CECON), Sep 15 - 17, 2021, San Marcos, TX.

FACULTY VITAE – KIRANMAI BELLAM

1. **Name:** Kiranmai Bellam
Academic Rank: Associate Professor
2. **Education & Degree** (degree, discipline, institution, year)
 - Ph.D., Computer Science, Auburn University, 2009
 - MS, Computer Science, New Mexico Tech, 2006
 - BS, Information technology, Madras University, 2004
3. **Academic Experience** (Period, institution, rank)

2021 – Present	Prairie View A&M University,	Interim Dept Head, CEE
2015 – Present	Prairie View A&M University,	Associate Professor
2009 – 2014	Prairie View A&M University,	Assistant Professor
4. **Non-academic Experience**
None
5. **Certification and professional registrations**
None
6. **Current Membership in Professional Organizations:**
 - Institute of Electrical and Electronics Engineers (IEEE)
 - Upsilon Pi Epsilon (UPE)
 - Association of Computing Machinery (ACM)
 - ACM Special Interest Group on Computer Science (SIGCSE)
7. **Honors & Awards**
 - S. Frizell, K. Bellam (Co-PI), J. Perkins, Collaborative Research: Improving Access to Career and Educational Development (I-ACED). National Science Foundation, Amount: \$954,000.00 (10/15/2021 – 9/30/2027)
 - K. Bellam (PI), N. Ghaffari, L. Huang, Y. Yang, J. Foreman, L. Qian, L. Li, X. Li, S. Frizell, X. Dong. Pathways to Increase Underrepresented Minorities in Data Science and Analytics Workforce. Microsoft Foundation, Amount: \$200,000.00 (01/01/2021 – 12/31,2021)
 - Ahmed, K. Bellam (Co-PI), Y. Yang. Targeted Infusion Project: Infusing Innovative IoT Technologies into the Computer Science Curriculum at Prairie View A&M University. National Science Foundation, Amount: \$399,931.00, (07/01/2020 – 6/30/2023)
8. **Service Activities** (within and outside of the institution)
 - National Center for Women and Information Technology, Academic Alliance member, 2010 - Present
 - External Evaluator, PhD Thesis, Anna University, 2017 - Present
 - Selection Committee for the Excellence in Sponsored Research Award, Member, 2020
 - Tenure and Promotion Committee, Chair, 2019
 - CS Tenure Track Search Committee Chair, 2019
 - Third International Conference on Computing and Communication System(I3CS), Advisory Committee member, 2020

- Search Committee for Director of ICEP, Member, 2019
- Grade Appeal Committee, Member, 2019
- College Tenure and Promotion Review Committee, Member, 2018
- CS Tenure Track Search Committee Chair, 2018
- Standard Operating Procedures Committee in College of Engineering, Member, 2018
- Undergraduate Council member, 2017~Present
- Mechanical Engineering Tenure-Track Faculty Position Search Committee, Member, 2018
- Mechanical Engineering 3 Instructor Positions Search Committee, Member, 2018

9. Selected Publications and Presentations

- Daniel, N. Krishnaraj, K. Saini, and K. Bellam, “EDGE/FOG Computing paradigm: The concept, platforms, and toolchains,” *Advances in Computers Edge/Fog Computing Paradigm: The Concept, Platforms, and Applications*, PP 413-433, April 2022, ISBN: 978-0-12-824506-4: <https://www.elsevier.com/books/edge-fog-computing-paradigm-the-concept-platforms-and-applications/raj/978-0-12-824506-4>
- N. Krishnaraj, K. Bellam, B. Sivakumar, and A. Daniel, “The Future of Cloud Computing: Blockchain-Based Decentralized Cloud/ Fog Solutions – Challenges, Opportunities, and Standards,” *Blockchain Security in Cloud computing*, pp 207-226, Sept 2021, ISBN 978-3-030-70501-5: <https://www.springer.com/gp/book/9783030705008>
- S. Cherukuvada, K. Bellam, A. Soujanya, N. Krishnaraj, “Artificial Intelligence-Based Textual Cyberbullying Detection for Twitter Data Analysis in Cloud-Based Internet of Things,” *Artificial Intelligence Techniques in IoT sensor Networks*, pp 151-166, Dec 2020, ISBN 1000318702: <https://bit.ly/38FhWdO>
- J. V. Anchitalagammai, R. Verma, M. Kavitha, A. R. Revathi, S. R. Preethi, and K. Bellam “Fuzzy Based Reliable Load Balanced Routing Approach for Ad hoc Sensor Networks,” *Computer Systems Science and Engineering*, vol. 41, no. 3, 861-874, 2022
- K. Bellam, N. Krishnaraj, T. Jayasankar, N.B. Prakash, G. R. Hemalakshmi “Adaptive Multimodal Image Fusion with a Deep Pyramidal Residual Learning Network,” *Journal of Medical Imaging and Health Informatics*, Vol. 11, No: 8, pp. 2135-2143 Aug 2021 <https://doi.org/10.1166/jmihi.2021.3763>
- N. Krishnaraj, K. Bellam, “Improved Distributed Frameworks to Incorporate Big Data through Deep Learning,” *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, 03-Special Issue, pp. 332-338, 2020
- A.S. Oliver, M. Anuratha, M.J. Justus, K. Bellam, T. Jayasankar, “An Efficient Coding Network-Based Feature Extraction with Support Vector Machine Based Classification Model for CT Lung Images,” *Journal of Medical Imaging and Health Informatics*, Vol. 10, 1–6, 2020

10. Brief List of Most Recent Professional Development Activities

- Technical Program Committee member for Mobile Systems and Pervasive Computing (MobiSPC-2018)
- Reviewer for Fifth International Symposium on Computer Vision and the Internet (VisionNet-20)

FACULTY VITAE – ABDUL M CHOUDHURY

1. Name: Abdul M Choudhury

Academic Rank: Clinical Assistant Professor

2. Education & Degree (degree, discipline, institution, year)

B.E.	Civil Engineering	VRCE, (Presently VNIT) Nagpur, India	1988
M.Sc.	Structural Engg.	Aligarh Muslim University, Aligarh, India	1993
Ph.D.	Civil Engineering	Indian Institute of Technology (IIT) Guwahati, India	2010

3. Academic Experience (Period, institution, rank,)

10/2021 – Current	Prairie View A&M University	Clinical Assistant Professor
09/2017-10/2021	Prairie View A&M University	Lecturer I
06/2015-08/2017	Prairie View A&M University	Adjunct Assistant Professor
02/2015-05/2015	Lone Star College, Tomball, Texas A	Teacher
2013-2014	NIT Silchar, India	Associate Professor
2009-2013	NIT Silchar, India	Assistant Professor
2004-2009	NIT Silchar, India	Senior Lecturer
1997-2004	National Institute of Technology (NIT), Silchar, India	Lecturer
1996-1997	NERIST (Northeastern Regional Inst. of Science & Tech) India	Lecturer
1994-1996	MH Saboo Siddik College of Engineering, Mumbai, India	Lecturer
1993-1994	Delhi College of Engineering, Delhi, India	Part Time Lecturer

4. Non-academic Experience

1994-1996	MH Saboo Siddik College Of Engr., Mumbai, India	In-charge, College Magazine
2004-2006	National Institute of Technology (NIT), Silchar, India	Warden of Hostel
2010-2012	National Institute of Technology (NIT), Silchar, India	Warden of Hostel
Two sessions	NIT Silchar, India	Admission Committee member
2009-2013	NIT Silchar, India	Coordinator, Consultancy Cell
2011-2012	NIT Silchar, India	Returning officer. Student election

5. Certification and professional registrations:

Member, AICTE

6. Current Membership in Professional Organizations:

Assoc. Member, ASCE

7. Honors & Awards:

Received state merit scholarship in Undergraduate course of Engineering, Central government scholarship during master's Program due to qualifying in GATE. Quality Improvement Program (QIP) scholarship for Doctoral Program.

8. Service Activities (within and outside of the institution)

- Served as a search committee member for Tenure track faculty selection in Geotechnical Engineering in Civil Engineering Department.

- Served two times as committee member for selection of adjunct faculty
- Acted as a committee member of the graduate student grievance committee
- Professor of record of Materials lab
- Acted as a committee member of 7 graduate students' thesis.

9. Selected Publications and Presentations

- Barbhuiya S. Choudhury A.M. (2015) "A study on the size effect of RC beam-column connections under cyclic loading" Elsevier, "Engineering Structures". Vol. 95, pp. 1-7
- Choudhury A.M. Deb S.K. and Dutta A. (2013) "Study on size effect of fibre reinforced Retrofitted reinforced concrete beam- column connections under cyclic loading" Canadian Journal of Civil Engg. Vol. 40. pp.353-360.
- Choudhury A. M. (2013) "Studies on size effect of RC and retrofitted beam-column joints Using numerical approach" Int, journal of Structural Engineering, Vol-4, No-3 pp. 169-186.
- Choudhury A.M. Dutta A and Deb S.K. (2013) "Effective retrofitting of plain concrete elements using fibre reinforced polymer wrapping" Journal of Structural Engineering. Vol.39 No-6, pp. 687-694.
- Oinam R M, Choudhury A M, Laskar A.I. (2013) "Experimental study on beam-column joints with fibres under Cyclic loading". Journal of engineering, Vol.3, Issue 7, pp. 13-23
- Choudhury A. M. (2021) "Experimental Study on suitability of FRP retrofitting of different types of RC deficient beam-column joints under cyclic loading" Int, journal of Structural Engineering, July 2021 (Submitted)
- Rahman, Tauhidur; Chhangte, Ricky; Wong, Ivan; Choudhury, Abdul. (2021) "Estimation of Region-Specific Seismic Parameters for Intraslab Subduction Zone Earthquakes of Northeastern India (NEI) and Adjacent Regions" Earthquake spectra journal, July 2021 (Submitted)

10. Brief List of Most Recent Professional Development Activities

- Presented poster in PV research week 2018 entitled "Study on the suitability of FRP retrofitting of deficient beam-column joints under cyclic loading"
- Radha and Choudhury, "Study of suitability of Fiber Reinforced Retrofitting of Reinforced Concrete deficient beam-column Joint under cyclic loading". PVAMU Research Poster Competition, March 2019.
- Choudhury A.M, "Study on Suitability of FRP retrofitting for beam-column joints by numerical Approach". PVAMU Research Week, April 2021.
- Journal Paper Reviewed Paper ID: SEM12902C
- Title: "Compressive strength behavior of low-strength hollow concrete block masonry prisms" "Structural Engineering and Mechanics, An International Journal" Techno press, August 202

FACULTY VITAE – RAGHAVA R. KOMMALAPATI

1. Name: Raghava R. Kommalapati

Academic Rank: Professor

2. Education & Degree (degree, discipline, institution, year)

B. Tech.	Civil Eng	Nagarjuna University, India	1988
M Tech.	Structures	Regional Engineering College, India	1990
MSCE	Environmental	Louisiana State University	1994
Ph. D.	Environmental	Louisiana State University	1995

3. Academic Experience (period, institution, rank)

2012-Present	Prairie View A&M	Director, CEES
2012-Present	Prairie View A&M	Professor
2010-2013	Prairie View A&M	Interim Dept. Head, CEE
2004-2009	Prairie View A&M	Assoc. Prof.
1998-2004	Prairie View A&M	Assist. Prof.

4. Non-academic Experience

2001 – 2019 Consultant, School of PE

5. Certification and Professional Registrations:

Professional Engineer, State of Texas; Board Certified Environmental Engineer (BCEE)

6. Current Membership in Professional Organizations

ASCE, AAEEES, AEESP, ACS, AWMA, TBPE

7. Honors & Awards

- Best 2014 Outstanding Researcher of the year, Roy G. Perry College of Engineering, Prairie View A&M University.
- Featured in Roy G. Perry College of Engineering Research Magazine (Spring 2013 issue)
- 2010 Outstanding Faculty Service Award, Roy G. Perry College of Engineering, Prairie View A&M University
- Member of the Honor Society of Tau Beta Phi, Phi Kappa Phi and Sigma XI, The Scientific Research Society.

8. Service Activities (within and outside of the institution)

- Director and Principal Investigator, Center for Energy & Environmental Sustainability (CEES), An NSF-funded research center, 01/2012 - current.
- Principal Investigator for 5 grants totaling \$6.5M (current) and a total funding of \$17M since 1998)
- Serving as an editorial board member for 6 journals in the energy and environmental engineering areas.
- Member of Graduate Council, Prairie View A&M University (09/2019- Present)
- Member of numerous Departmental, College, and University committees

9. Selected Publications and Presentations

- Harjinder Kaur and Raghava R. Kommalapati, 2021, Biochemical Methane Potential and Kinetic Parameters of Goat Manure at Various Inoculum to Substrate Ratios, Sustainability, 13, 12806. <https://doi.org/10.3390/su132212806>
- Du, H., Kommalapati, R.R., 2021, Environmental sustainability of public transportation fleet replacement with electric buses in Houston, a megacity in the USA, International Journal of Sustainable Engineering Vol 14 (6), <https://doi.org/10.1080/19397038.2021.1972491>
- Fatima, F., Du, H., Kommalapati, R.R., 2021, Treatment of Poultry Slaughterhouse Wastewater with Membrane Technologies: A Review. Water, 2021, Vol 13 (14):1905. <https://doi.org/10.3390/w13141905>
- Ayobami Orangun, Harjinder Kaur and Raghava R. Kommalapati, 2021, Batch Anaerobic Co-Digestion and Biochemical Methane Potential Analysis of Goat Manure and Food Waste, Energies, Vol 14 (7), 1952. <https://doi.org/10.3390/en14071952>
- Chipindula, J., Du, H., Botlaguduru, V.S.V., Choe, D. and Kommalapati, R., 2021, Life Cycle Environmental Impact of High-Speed Rail System in the Houston-Dallas I-45 Corridor, Public Transport, <https://doi.org/10.1007/s12469-021-00264-2>
- Poojan Upadhaya, Hongbo Du and Raghava R. Kommalapati, 2020, Meteorological Detrending of Ozone at Three Sites in the Dallas-Fort Worth Area: Application of KZ Filter Method, Atmosphere, Vol 11(11), 1226, <https://doi.org/10.3390/atmos11111226>
- S.V. Botlaguduru, and R. R. Kommalapati, 2019, Meteorological Detrending of Long-Term (2003-2017) Ozone and Precursor Concentrations at Three Sites in the Houston Ship Channel Region, Journal of the Air & Waste Management Association, Journal of the Air & Waste Management Association, Vol 70 (1), 93–107. <https://doi.org/10.1080/10962247.2019.1694088>.

10. Brief List of Most Recent Professional Development Activities

- 2021 American Institute of Chemical Engineers Annual Meeting, Boston, MA, November 7 – 11 (in person) and Virtual (15-19) 2021
- 2020 Tran-SET Conference (Virtual), Albuquerque, NM. September 1–2, 2020
- 2020 Air and Waste Management Association, 112th Annual Conference & Exhibition, Virtual Conference, June 30 – July 2, 2020.
- 2019 Air and Waste Management Association 112th Annual Conference & Exhibition, Quebec City, Quebec, Canada, June 25-28, 2019.
- Texas A&M Engineering Experiment Station (TEES) Annual Research Conference, Texas A&M Engineering Experiment Station (TEES), College Station, TX, May 21-22, 2018
- 2018 Air and Waste Management Association 111th Annual Conference & Exhibition, Hartford, CT, June 25-28, 2018
- 2017 - 4th International Conference on Environmental Systems Research -2017 (ICESR 2017), Singapore, December 14-16, 2017.
- 2017 Association of Environmental Engineering and Science Professors (AEESP) Research and Education Conference, Ann Arbor, MI, June 20-22, 2017

FACULTY VITAE – KAI-WEI LIU

1. **Name:** Kai-Wei Liu
Academic Rank: Adjunct Instructor
2. **Education & Degree** (degree, discipline, institution, year)

Ph.D.,	Civil Engineering,	Texas A&M University	2015
M.E.,	Civil Engineering,	Texas A&M University	2009
M.S.,	Civil Engineering,	National Cheng Kung University	2004
3. **Academic Experience** (Period, institution, rank)

2022 - Present	Prairie View A&M University	Adjunct Instructor
2021	Galveston College	Engineering Instructor and Program Coordinator
2020 - 2021	Texas A&M University – Corpus Christi	Visiting Assistant Professor
4. **Non-academic Experience**

2020	Texas A&M Transportation Institute; Assistant Research Scientist
2016-2020	Texas A&M Transportation Institute; Assistant Transportation Researcher
2015-2016	Texas A&M Transportation Institute; Post-Doctoral Research Associate
5. **Certification and professional registrations:**
Engineer-In-Training, TX
6. **Current Membership in Professional Organizations:**
ACI
7. **Honors & Awards**
 - Herbert H. Richardson Team Award, Texas A&M Transportation Institute, 2018
 - Nominated for Distinguished Graduate Student Excellence in Teaching Award, Texas A&M University, 2015
8. **Service Activities** (within and outside of the institution)
 - Co-Chair, Construction I and II, Texas Transportation Short Course, TxDOT/TTI
 - Editorial Board Member in International Journal on Engineering Technologies and Informatics, Transportation Research Record, SCIREA Journal of Materials Engineering, SCIREA Journal of Civil Engineering and Building Construction, American Research Journal of Materials Science, American Research Journal of Civil and Structural Engineering, Journal of Civil Engineering and Building Construction
 - Voting Member, American Concrete Institute (Committee 2021)
9. **Publications and Presentations from the Last Five Years**
 - Y. Saraswatula, P., A. Mukhopadhyay, and K. W. Liu (2022). “Development of a screening tool to predict fly ash dosage necessary to mitigate alkali silica reaction in concrete.” Transportation Research Record: 03611981221094291.

- Goehl, D., C. Gurganus, K. W. Liu, and J. L. Hsu (2021). Seal Coat Binder Rate Adjustments Using LiDAR Data. Texas Department of Transportation and Texas A&M Transportation Institute, Technical Report FHWA/TX-21/5-6963-01-R1.
- Mukhopadhyay, A. K., K. W. Liu, M. Jalal, and J. L. Hsu (2021). Verification of ASR Resistance Property of the Commonly used Concrete Mix Designs by the Precast Industries in Texas. Texas Department of Transportation and Texas A&M Transportation Institute, Technical Report FHWA/TX-21/5-6656-01-R1.
- Liu, K. W., Goehl, D., C. Gurganus, and J. L. Hsu (2020). "Management of chip seal through binder rate adjustments predicted by LiDAR reflectivity data." *Management* 3(5): 30-39.
- Liu, K. W. and J. L. Hsu (2020). " α -Periodicity is spontaneously phased in an acicular sulfuricrecrystallized precipitate of copper phthalocyanine." *European Journal of Applied Sciences* 8(6):81-92.
- Gurganus, C. F., S. Messhenas, K. W. Liu, and E. Fernando (2020). Determine Proper Selection of Ride Quality Pay Adjustment Schedule and Re-evaluation of Current Bonus/Penalty Structure. Texas Department of Transportation and Texas A&M Transportation Institute, Technical Report FHWA/TX-21/0-6986-R1
- Mukhopadhyay, A. K., R. M. Ganesh, K. W. Liu, and Y. Deng (2019). Direct determination of cement composition by x-ray diffraction. Texas Department of Transportation and Texas A&M Transportation Institute, Technical Report FHWA/TX-19/0-6941-R1.
- Udayakantha, M., J. Cho, K. W. Liu, A. Mukhopadhyay, S. Gupta, C. Hong, and B. Sarbajit (2019). "An evaluation of the reduction of heat loss enabled by halloysite modification of oilwell cement." *Engineering Research Express* 1(2): 025028.
- Mukhopadhyay, A., K. W. Liu, and M. Jalal (2019). "An innovative approach to fly ash characterization and evaluation to prevent alkali-silica reaction." *ACI Materials Journals* 116(4): 173-181.
- Liu, K. W. and J. L. Hsu (2019). "An innovative self-weld framework of microscale copper phthalocyanine." *SCIREA Journal of Materials* 4(1): 1-13.
- Mukhopadhyay, A. and K. W. Liu (2018). "Innovative approach for formulating ASR-resistant mixtures." *ACI Concrete International* 40(12): 39-45.
- Liu, K. W., A. Mukhopadhyay, X. Shi, and J. L. Hsu (2018). "Chemical approaches to prevent alkali-silica reaction in concrete – A review." *Engineering Solid Mechanics* 6(3): 201-208.
- Liu, K. W. and J. L. Hsu (2018). "The use of chemical admixtures to prevent delayed ettringite formation in concrete." *American Research Journal of Civil and Structural Engineering* 2(1): 1-6.

10. Brief List of Most Recent Professional Development Activities

- New to Online, Essentials Part I: Getting Started, Online Learning Consortium, Galveston College, 2021
- Best Practices in Online Instruction, Office of Distance Education and Learning Technologies, Texas A&M University - Corpus Christi, TX, 2020
- Core Series, Leadership Enhancement and Development, Texas A&M Transportation Institute, TX, 2017

FACULTY VITAE – EMMANUEL U. NZEWI

1. Name: Emmanuel U. Nzewi
Academic Rank: Professor

2. Education & Degree (degree, discipline, institution, year)

BSCE Civil Engineering Michigan Technological University, Houghton, MI 1980
 MSCE. Civil Engineering Purdue University, West Lafayette, IN 1982
 Ph.D. Civil Engineering Purdue University, West Lafayette, IN 1982

3. Academic Experience (Period, institution, rank)

2020 - Present	Prairie View A&M	Professor, Civil Eng.
2019-2020	Prairie View A&M	Interim Associate Dean
2013-2020	Prairie View A&M	Department Head
2008-2013	Southern Univ. and A&M College	Department Chair
2004-2008	NC A&T State Univ	Director, Civil Eng
2000-2004	NC A&T State Univ	Director, Civil Eng
1989-1995	NC A&T State Univ	Assistant Prof., Civil Eng
1988	Purdue University	Visiting Prof., Civil Eng

4. Non-academic Experience

2018	PPI/Kaplan Professional	Consulting Instructor
1987	H. Stewart Kline, Lafayette, IN	Consultant

5. Certification and Professional Registrations:

Professional Engineer (PE)

- a) State of Indiana
- b) State of Louisiana

6. Current Membership in Professional Organizations:

ASCE, EWRI, AWRA, ASEE, AGU, AWWA, Omega Rho

7. Honors & Awards

- 2011 Louisiana Engineering Foundation Faculty Professionalism Award, Louisiana Engineering Foundation, January 2011.
- 2007 Service Award, ASCE Environmental and Water Resources Institute, 2007 Water Congress, Tampa, FL, May 2007
- Faculty Advisor Reward, American Society of Civil Engineers, 2000, 2001 & 2002
- Honorable Mention, for outstanding activities of the ASCE Student Chapter, American Society of Civil Engineers (ASCE), 2000 & 2001
- College of Engineering Teaching Excellence Award, NC A&T State University, 2000
- Outstanding Teacher Award, Civil & Environmental Engineering, NC A&T State University, 1998-1999, May 1990
- Outstanding Service Award, 1999 ASCE Carolinas Conference, April 11, 1999.
- Member, Omega Rho (Operations Research/Management Science Honor Society)

8. Service Activities (within and outside of the institution)

- NSF Graduate Research Fellowship Program (NGRFP), Review Panel, 2016-2020
- Panelist, 2020 National Defense Science and Engineering Fellowship Program (NDSEG), Air Force Office of Scientific Research, Department of Defense (DoD), February 2020
- Member, Harris County MAAPnext Technical Advisory Group, Harris County Flood Control District (2019 – Present)
- V. Chairperson, Zoning Board of Adjustments, City of Prairie View, TX (2019 – Present)
- Department Heads Coordinating Council (DHCC), ASCE, Reston, VA (2019-2021)
- Journal Reviewer, J. Water Resources Plan. & Mngmt and J. of Hydraulic Eng. (ASCE)
- Member, ASCE Committee on Accreditation (COA), ASCE, Reston, VA (2019 – 2020)
- GEM Application Review, National GEM Consortium, Alexandria, VA, Nov.15-17, 2017
- Review Panel, U. S. Water Partnership Water Consultants Program (WCP) for Kenya's Nairobi River Basin Rehabilitation and Restoration Program, November/December, 2016
- Panelist, 2019 National Defense Science and Engineering Fellowship Program (NDSEG), Air Force Office of Scientific Research, Department of Defense (DoD), February 2019

9. Publications and Presentations from the Last Five Years

- Zhang, H., Zimba, P.V., Nzewi, E.U. (2019), “A New Relative Radiometric Calibration Method for Aerial Imagery,” Remote Sensing, 11(16): 1931. DOI: 10.3390/rs11161931.
- Zhang, Hua and Emmanuel Nzewi (2019), “Considerations for the Development of Community Infrastructure Resilience Index,” Presentation, ASCE Environmental and Water Resources Institute, 2019 Water Congress, May 19-23, 2019, Pittsburgh, PA

10. Brief List of Most Recent Professional Development Activities

- Harris County Engineering Division Green Infrastructure and Envision Initiatives, EWRI, ASCE, Houston Chapter, March 25, 2021 (Certificate)
- Fundamentals and Advanced Hydrologic Spatial Applications in R, WORKSHOP (Virtual), American Water Resources Association (AWRA), August 11, 2020
- National Effective Teaching Institute (NETI 3 Online), ASEE, July 30-31, 2020
- ABET Institute for the Development of Excellence in Assessment Leadership (IDEAL) Workshop, Baltimore, MD, August 6-9, 2018 [30 PDH units]
- ABET Fundamentals of Program Assessment Workshop [FPAW], San Diego, CA, April 14, 2018 [7 PDH]
- Texas Awareness Floodplain Construction Training: Learn to Build with Resilience in Mind, International Code Council, March 19, 2018 (Certificate)

FACULTY VITAE – JUDY PERKINS

1. Name: Judy A. Perkins

Academic Rank: Professor

2. Education & Degree (degree, discipline, institution, year)

Ph.D.	Civil Engineering	Georgia Institute of Technology	1992
M.S.	Civil Engineering	University of Illinois, Urbana-Champaign	1986
B.S.	Civil Engineering	Southern University	1984

3. Academic Experience (Period, institution, rank)

2020-Present	Prairie View A&M University	TAMU-TEES Regional Director
2020-2021	Prairie View A&M University	Professor and Interim Department Head
2004-Present	Prairie View A&M University	Professor
2009-Present	Prairie View A&M University	Professor and TAMUS Regents Professor
2004-2010	Prairie View A&M University	Professor and Department Head
1999-2004	North Carolina A&T State University	Associate Professor
1995-1999	University of New Orleans	Associate Professor
1994-1995	Southern University	Associate Professor
1987-1994	Southern University	Assistant Professor

4. Non-academic Experience

2010 – present	JPID Consulting LLC	President and Owner
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5. Certification and professional registrations:

- PE License #105674, Texas
- E-I-T #10331, Louisiana

6. Current Membership in Professional Organizations:

- American Society of Civil Engineers
- Institute of Transportation Engineers

7. Honors & Awards

- 1000 Inspiring Black Scientists in America, <http://crosstalk.cell.com/blog/1000-inspiring-black-scientists-in-america>, 2021
- Educator of Excellence Award, Achievement Through Leadership Foundation, Greater Houston Texas, 2018
- Best Professor of the Year for the Civil Engineering Department, Alpha Chapter of Epsilon Gamma Iota, Inc., 2011-2012 & 2010-2011
- Texas A&M University System Regents Professor, Awarded Fall 2009

8. Service Activities (within and outside of the institution)

- **National Level**
 - Ambassador, Clean Energy Education & Empowerment (C3E), Department of Energy Women in Clean Energy Initiative, 2018-Present
- **State Level**

- Texas Department of Transportation, Campus Liaison (PVAMU), 2004-Present
- **University Level**
 - Member, Standing Honorary Degree Selection Committee, 2017 - Present
 - Member, Faculty Sabbatical Review Committee, 2005-2006 & 2016-Present
- **College Level**
 - Chair, Search Committee for Mechanical Engineering Department Head, PVAMU, 2021
 - Chair, Roy G. Perry College of Engineering Promotion Committee for Professor Rank, PVAMU, 2021

9. Publications and Presentations from the Last Five Years

- “An Investigation of Drivers’ Comprehension of Distracted Driving Slogans,” Saidi Siuhi1, Judith Mwakalonge, Rebecca Wright, and Judy A. Perkins, Journal of Transportation Technologies (<https://www.scirp.org/journal/jtts>, DOI: 10.4236/jtts.2021.112008, ISSN Online: 2160-0481, ISSN Print: 2160-0473), Volume 11, Number 2, February 2021.

10. Brief List of Most Recent Professional Development Activities

- Session Facilitator, Panel: Carrying and Passing the Baton Session, 8th Annual U.S. C3E Women in Clean Energy Symposium, Clean Energy Education & Empowerment (C3E), Hosted by the Texas A&M Energy Institute, in collaboration with the U.S. Department of Energy, the MIT Energy Initiative, and Stanford Energy, 2019

FACULTY VITAE – RAMALINGAM RADHAKRISHNAN

1. Name: Ramalingam Radhakrishnan

Academic Rank: Professor

2. Education & Degree (degree, discipline, institution, year)

Ph.D.	Structural Engineering	Brigham Young University	1974
M.S.	Civil Engineering	Brigham Young University	1971
M.S.	Structural Engineering	University of Madras	1968
B.S.	Civil Engineering	University of Madras	1963

3. Academic Experience (Period, institution, rank)

2014-Present	Prairie View A&M	Professor
2004-2014	Prairie View A&M	Assoc. Prof
1990-2004	Prairie View A&M	Department Head
1985-1990	Prairie View A&M	Asst. Prof

4. Non-academic Experience

1976-1985 Brown Root, Houston, TX, Project Engineer, Nuclear Containment Building Design
1974-1976 Torkelson Engineers, Salt Lake City, Structural Engineer, Industry Facilities Design

5. Certification and professional registrations:

Professional Engineer, State of Utah

6. Current Membership in Professional Organizations:

- Fellow, American Society of Civil Engineers
- Member, Chi Epsilon – Civil Engineering Honor Society
- Member, ASEE
- PVAMU Representative to Texas Space Grant Consortium (TSGC)
- Technical Advisory Panel Member (TAP-1), Pavement and Materials RMC, TxDOT

7. Honors & Awards

- Fellow, American Society of Civil Engineers
- Excellence in Teaching Award, Prairie View A&M University (1990)
- Outstanding Faculty Award for Contribution to Civil Engineering (1994)
- Commendation in the American Journal of Traffic and Transportation Engineering, ISSN Online: 2578-8604 ISSN Print: 2578-8582

8. Service Activities (within and outside of the institution)

- PVCEE Advisor to Graduate and Undergraduate Students
- PVCEE BSCE Graduation Evaluation Coordinator
- Member, College Curriculum Committee (2017 – Present)
- Chair, College Faculty Promotion and Tenure Committee, Fall 2019
- Member, Department of Civil Engineering Faculty Promotion and Tenure Committee, Spring 2019
- Member, Department of Civil Engineering Faculty Conduct Review Committee, Summer 2019
- Member, Department of Civil Engineering Students Grievance Review Committee, Spring 2021

- Member, Department of Chemical Engineering Promotion Committee, Fall 2021
- Advisor, PVAMU LSAMP, Advised to 2 Civil Engineering students on PVAMU in spring 2019
- Industrial Advisory Council Meetings and Program Review, Spring 2017, and Fall 2017
- Advised UG students and a 4 students Team presented the TSGC sponsored project “Hypervelocity Impact Modeling” analysis and results to NASA Engineers on Monday, April 24, 2017, League City, Texas during the Spring 2017 TSGC Design Challenge Showcase
- Co-Director of PVAMU Eisenhower Transportation Fellowship Program during 2018-2019 AY and 2019-20 AY
- Serving as Advisor to Greater Houston Tamil Language School for Grade 1 to 6 (A Non-Profit Voluntary organization during 2016-17 and Current 2017-18 Academic Year)

9. Publications and Presentations from the Last Five Years

- “Nighttime Walking and Bicycling Accessibility Evaluation for Low-income Shift Workers,” Journal of Transport Geography, 64, 97-108. Co-Author Radhakrishnan, R. with Chandra, S., Jimenez (2017)
- "A methodology for evaluation of supply-demand infrastructure for multi-modal transportation during nighttime," presented and published in TRB Annual Meeting January 2017, Authors: Ramalingam Radhakrishnan, Co-Author with Zalavadia, A., Chandra, S., and Galicia, D.
- Radha and Choudhury, “Study of suitability of Fiber Reinforced Retrofitting of Reinforced Concrete deficient beam-column Joint under cyclic loading.” PVAMU Research Poster Competition, March 2019

10. Brief List of Most Recent Professional Development Activities

- Attended the FEMA-50 Simplified Seismic Assessment Webinar on June 14, 2017
- Representative to TSGC and enhanced PVAMU students Scholarships, Fellowships, and Research
- Attended and Participated in TRB 2019 Meeting with Eisenhower Transportation Fellowship Program PVAMU UG Recipients
- Attended and received certificate (3.0 PDH), ASCE Houston Branch Technical Webinar on Geotechnical and Environmental Considerations for Design of Civil and Transportation Engineering Projects, May 12, 2020
- Attended and participated on “Hollow Core Diaphragm Design” (2 PDH) by Precast/Prestressed Concrete Institute on June 17, 2020