

CURRICULUM VITAE

Name: Dr. Bonela Someswara Rao

Employee ID: A5CIV00T70

Designation: Assistant Professor

Department: CIVIL ENGINEERING

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Date of Joining in the Institution: 23-01-2026

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph.D. (CE)	National Institute of Technology Warangal	Awarded	June 2025
M. Tech (TE)	National Institute of Technology Karnataka	FIRST Class	July 2014
B. E (CE)	AU, Visakhapatnam	FIRST Class	May 2010

Total Years of Experience (Teaching/Industry): 6.5 Years

Period		Organization/Institution/Industry	Designation
Jan-2026	Till date	AITAM, Tekkali	Assistant Professor
July-2025	Dec-2025	NRIIT, Vijayawada	Associate Professor
Dec-2017	Dec-2019	AGI, Venkatapur (Telangana)	Assistant Professor
Feb-2015	Sep-2017	GMRIT, Rajam	Assistant Professor
May-2010	May-2011	NCC Ltd., Hyderabad	GET

Areas of Interest:

1. Safety analysis of vehicle interactions in mixed traffic conditions
2. Driver behaviour analysis and modelling
3. Machine learning for traffic management and road safety (R Programming, Python)
4. Material characterization and evaluation of asphalt mixtures.



Academic Projects Guided:

- i) Masters Projects: 04
- ii) Bachelor Projects: 05

Honors and Awards received:

1. **Best Paper Award:** received the Best Paper Award in the International Conference "15th Eastern Asia Society for Transportation Studies (EASTS 2023) International conference", organized by EASTS at Shah Alam, Malaysia.

Other Responsibilities:

1. IIC Department Coordinator (Civil)
2. Criteria coordinator for NBA accreditation.

Details of Publications:

International Journals:

1. **Bonela, S.R.,** and Kadali, B. R (2025). "Modelling severity of right-turn crossing conflicts at unsignalized T-intersections using random parameter binary logit model", *Journal of Transportation Engineering, Part A: Systems (ASCE)*, 151(3): 1-13. <https://doi.org/10.1061/JTEPBS.TEENG-8490> [SCIE & Scopus, Q2].
2. **Bonela, S.R.,** and Kadali, B. R (2025). "A Study on Effect of Drivers' Attitudes, Subjective Norms, and Perceived Behavioural Control Factors on Aberrant Driving Behaviour in Mixed Traffic Conditions", *International Journal of Crashworthiness* (Accepted and in Press) [SCIE & Scopus, Q2].
3. **Bonela, S.R.,** and Kadali, B. R. (2024). "Analysis of severity of right-turning vehicles conflicts at unsignalized T-intersections", *ICE-Transport*, 178(4): 245-257. <https://doi.org/10.1680/jtran.24.00024> [SCIE & Scopus, Q3].
4. **Bonela, S.R.,** and Kadali, B. R. (2023). "Examining the effect of vehicle type on right-turn crossing conflicts of minor road traffic at unsignalized T-intersections", *International Association of Traffic and Safety Sciences Research (IATSS Research)*, 47(4): 545-556. <https://doi.org/10.1016/j.iatssr.2023.12.002> [ESCI & Scopus, Q1].
5. **Bonela, S.R.,** and Kadali, B. R. (2022). "Analysis of right-turn vehicular driving paths at uncontrolled T-intersections", *International Journal of Injury Control and Safety Promotion (ICSP)*, 30(1): 91-105. <https://doi.org/10.1080/17457300.2022.2112236>. [SSCI & Scopus, Q2].

6. **Bonela, S.R.**, and Kadali, B. R. (2022). “Review of traffic safety evaluation at T-intersections using surrogate safety measures in developing countries context”, *International Association of Traffic and Safety Sciences Research (IATSS Research)*, 46(3): 307-321. <https://doi.org/10.1016/j.iatssr.2022.03.001>. [ESCI & Scopus, Q1].
7. **Bonela, S.R.**, Rambabu, T, and Rao, G. V. (2017). “Analysis of Capacity and Level of Service at Uncontrolled Intersections under Heterogeneous Traffic Conditions”, *International Journal of Civil Engineering & Technology (IJCIET)*, 8(8): 181-190. [Scopus].

National Journals:

1. **Bonela, S.R.**, Kumari, B. S, and Rao, G. V. (2016). “Experimental Study of Stone Matrix Asphalt with Coir Fiber and Pineapple Fiber”, *International Journal of Engineering Research in Mechanical and Civil Engineering*, 1(5): 15-22. [UGC Approved].
2. **Bonela, S.R.**, Satyavathi, M, and Rao, G. V. (2016). “Experimental Study of Concrete Pavements by partial replacement of cement with industrial wastes”, *International Journal of Engineering Sciences & Research Technology*, 5(11): 378-385. [UGC Approved]
3. **Bonela, S.R.**, Yashwant, S, and Rao, G. V. (2015). “Experimental Studies on Laterite Soil stabilized with Cement and Aggregate”, *International Journal of Research in Engineering and Technology*, 4(8): 187-192. [UGC Approved]

International Conferences:

1. **Bonela, S. R.**, and Kadali, B. R. “Investigating the influence of Two-wheelers and Auto-rickshaws on severity of right-turning vehicles conflicts at unsignalized T-intersections under mixed traffic”. 15th International Conference of Eastern Asia Society for Transportation Studies (EASTS-2023), Malaysia, September 4 to 7, Paper ID PP3351.
2. **Bonela, S. R.**, and Kadali, B. R. “Investigation of risky driving behaviour of right-turning vehicles at unsignalized T-intersections using Multiple Correspondence Analysis”. 9th International Conference on Transportation Systems Engineering and Management (CTSEM 2023), Warangal, India. October 12 to 14, Paper ID 111.

National Conferences:

1. **Bonela, S. R.**, and Kadali, B. R. “Modeling right-turn crossing conflicts severity of minor road traffic at unsignalized T-intersections”. 4th National conference on Recent Advances in Traffic Engineering (RATE-2022), Surat, India. November 11 to 12, Paper ID 4267.

Book Chapter Publications:

1. Tottadi, K. K., **Bonela, S. R.**, Mehar, A., and Jampa, V (2026). “Impact of Curve Geometry on Driving Comfort and Safety: A User Survey”. Lecture Notes in Civil Engineering. (Accepted and in Press). [Springer Nature, **Scopus**]
2. **Bonela, S.R.**, and Kadali, B. R. (2024). “Investigation of risky driving behaviour of right-turning vehicles at unsignalized T-intersections using Multiple Correspondence Analysis”, *Lecture Notes in Civil Engineering: Recent Advances in Transportation Systems Engineering and Management-Volume 1, Chapter 7, (LNCE, volume 544)*, pp: 101-117. https://doi.org/10.1007/978-981-97-6075-6_7 [Springer Nature, **Scopus**].

Details of Conferences / Workshops / Refresher Courses Organized:

S. No	Dates	Name of the Programme	Sponsoring Agency
1	11 th – 17 th March, 2024	A One-week workshop on “Training on advanced methods for Transportation Data Analysis,” sponsored by India SERB (under the Karyashala scheme)	Transportation Division, Civil Engineering, NIT Warangal
2	12 th – 14 th October, 2023	9 th Conference on Transportation Systems Engineering and Management (CTSEM 2023)”	Transportation Division, Civil Engineering, NIT Warangal
3	24 th -25 th January, 2019	A two-day national conference on “Advances in Science and Technology in Civil Engineering”	Civil Engineering, Anurag Group of Institutions (AGI), Venkatapur
4	13 th -15 th November, 2018	A Three-day Faculty development program on “Structural Health Monitoring and Retrofitting with Innovative Techniques”	Civil Engineering, Anurag Group of Institutions (AGI), Venkatapur
5	6 th -7 th September, 2018	A Two-day workshop on “Earthquake Resistant Design of Buildings Using SAP2000”	Civil Engineering, Anurag Group of Institutions (AGI), Venkatapur

6	1 st -2 nd April, 2016	A Two-day workshop on “Urban Mobility for Smart City Development”	Civil Engineering, GMRIT, Rajam
7	31-03-2017 – 01-04-2017	A Two-day workshop on “Advanced Construction Techniques and Practices in Civil Engineering”	Civil Engineering, GMRIT, Rajam

Details of Conferences / Workshops / Refresher Courses Attended:

S. No.	Dates	Name of the Programme	Host Institution
1	17 th February 2024	A one-day research scholars’ confluence (RSC-2024)	NIT Warangal, Telangana
2	24 th September, 2019	A 1-day workshop on “Publishing Engineering Education Research: are you JEET ready?”	Anurag Group of Institutions (AGI), Venkatapur
3	04 th – 09 th June, 2018	A six-day faculty development program "Teaching –learning Methods"	Department of CSE, AGI
4	20 th – 21 st April, 2014	A 2-days workshop on “Professional Skills Development Program for Post-Graduate Students”	NITK Surathkal, Karnataka

Invited Talks:

S. No.	Dates	Name of the Programme	Host Institution
1	11 th – 17 th March, 2024	“Discrete choice models using R programming (Session-1) and Structural Equation Modelling (SEM) using SmartPLS4 software (Session-2)” India SERB (under Karyashala scheme) sponsored – 7 days high-end workshop on “Training on advanced methods for Transportation Data Analysis”	NIT Warangal
2	21 st July, 2023	“Modeling the effect of Auto-rickshaws and Two-wheelers on severity of right-turn crossing conflicts at unsignalized T-intersections under self-organized traffic environment” in “One Week One Lab (OWOL)”: Next Generation Transport - AI and ML applications on Road Safety (Day 6)	CSIR-CRRI at IIIT Hyderabad

Certifications:

1. Got certified from NPTEL online certification course (4 Weeks) on "GPS Surveying" conducted by IIT, Roorkee July-August 2019.

Other Achievements:

1. Ratified as an Assistant Professor in February 2018 of JNTUH selections.
2. Ratified as an Assistant Professor in June 2016 of JNTUK selections.
3. Question Paper Setter for different autonomous colleges.
4. Reviewer for International Conference CTRG 2025.
5. Reviewer for National Conference CTSEM 2024.
6. Reviewer for the Journals, Transportation Research Record (TRR), Transportation Research Part F: Traffic Psychology and Behaviour, and Journal of Transportation Engineering, Part A: Systems.
7. Reviewer for Transport (Proceedings of the ICE) and Municipal Engineer (Proceedings of the ICE).
8. Design and drawing of the rotary intersection at Vivekananda and Mudukotla junctions in Mahubababad Municipality, Telangana, in 2022.
9. In charge for site inspection and quality testing of GHMC road works - Kapra and Uppal areas (AY: 2018-19 & 2019-20).
10. Designing and testing Job mix formula for WMM and GSB for road works in Tekkali Division, R&B Department, Srikakulam in 2017.
11. Designing and testing Job mix formula for WMM and GSB for road works in Rajam Division, R&B Department, Srikakulam in 2016.



Signature