

P. Vijaya Lakshmi Kanthi

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EDUCATION

2019- 2024: Submitted PhD at Gitam Institute of Technology, Gitam (Deemed to be University); Study area: Road Safety and GIS. Award of degree awaited.

2000 to 2002 - Masters in City and Regional Planning, School of Urban and Public Affairs, University of Texas at Arlington, Texas, USA. Comprehensive exam. GPA 3.69.

1986 to 1991 - Bachelor of Architecture, College of Fine Arts and Architecture, India. Final year Thesis on Indigenous and Environment friendly design of Youth Hostels.

COMPUTER SKILLS/TRAINING

Certified in Energy Conservation Building Code 2017 eligible to be a Third Party Assessor
Bentley's Open Roads trained under Gayatri Vidya Parishad College of Engineering
AutoDesk AutoCAD

2012-ArcGIS ver 10.2 Certificate from Geosys, Hyderabad, India.

2002-GIS Certification Program in ArcView and ArcInfo, UTA

Working knowledge in Visual Basic, MS Access, MS Excel, MS Word, MS PowerPoint and other MS Office applications.

Understanding about JAVA, C++, ArcObjects etc.

EMPLOYMENT

September 2018 till date (6 years): Senior Assistant Professor, Civil Engineering Department, Gayatri Vidya Parishad College for Degree and PG Courses (A), Engineering and Technology program, Visakhapatnam, AP, India - Taught Students of Bachelor and Masters of Civil Engineering in Building Materials and Construction, Building Planning and Design, Research methodology and IPR, Disaster management, Remote sensing and GIS, Air Pollution Control; Coordinator of student Projects for six years and Green Club activities; Assisting department in grant proposals, conducting Faculty Development programs and Board of Studies Syllabus revisions. Hold additional responsibilities as Convener- Website Committee, Infrastructure Committee.

May 2017 May 2018 (1 year): GIS Consultant, Matrix/Atmos Energy, Addison TX, USA - GIS mapping of Utility and Gas pipelines under Atmos Energy in the cities and towns of Texas; regular interaction with field staff on ground reports and accurate mapping of gas fixtures; extending the pipeline networks and joining large datasets; Integration with ArcGIS.

2012 - 2016: (4 years) In part time positions with Writer bay, Coppell ISD, H&R Block, Coppell, TX USA

July 2009 to July 2012 (3 years): Lecturer in the Department Urban and Regional of Planning, School of Planning and Architecture, School of Planning and Architecture, JNAFAU, Masab Tank, Hyderabad, TS, India- Taught students of bachelor's and master's students of Planning and Architecture in Design and Planning studios, Transportation Planning, field visits; Thesis coordinator for two years; In-charge for Masters students Planning Colloquium; Assisting the department in Faculty recruitments, Syllabus and Curriculum revisions; Preparing and forwarding Government Grant proposals

for establishing GIS and Transportation labs; Coordinating and conducting student extra-cultural activities, seminars, talks and lectures

July 2001 to July 2004 (3 years): *Planner I/II, Transportation Department, North Central Texas Council of Governments, Arlington, TX, USA-* Assist Air Quality Team in Conformity Analysis, Evaluate TXDOT Vehicle Inspection program, create and maintain Air Quality Databases, Presented at National Clean Air Conference, Breckenridge, Colorado on 'Texas Motorists Choice'-program evaluation. Assisted the team in the AirCheckTexas program. Also worked with the Transportation Improvement Program team on project evaluation and surveys, Public Outreach programs and public meetings

Jan 1997 to Aug 1999 (2 years 8 months): *Architect-* Ran independent architectural practice, designed and built individual houses, apartment and commercial complexes.

Lecturer, Sri Venkateswara College of Architecture, Hyderabad, TS, India- Taught 4 batches of Architecture undergraduate students Held additional responsibilities as Student Advisor, organized Student extra-curricular events, Professional seminars, talks and tours.

Jan 1991 to Jan 1997 (6 years): *Architect in three different firms, longest term with A & A Associates, Hyderabad, TS India-* Led Design studio of architects and engineers in consultancy firm; Working with various Facility management teams, site supervision and AutoCAD introduction.

PUBLICATIONS

- Pusuluri, V.L., Dangeti, M.R. Applications of QGIS and machine learning for road crash spot identification. *Earth Sci Inform* **17**, 2331–2346 (2024).
<https://doi.org/10.1007/s12145-024-01271-0>
- Pusuluri, V.L., Dangeti, M.R. & Kotamrazu, M. Road crash zone identification and remedial measures using GIS. *Innov. Infrastruct. Solut.* **8**, 146 (2023).
<https://doi.org/10.1007/s41062-023-01111-y>
- Utilization of Waste Plastic in Flexible Pavements, IRJET, 2023
- Geometric Design improvements for Congestion relief" Pensee Journal, Feb 2021, Vol 51 pg 1265-1272
<http://penseereseach.com/index.php/vol51issue1-3/>
- Small World" University of texas at Arlington, Apr 2002
- Vijaya L. Kanthi " Not Just Cradles" Indian Architect and Builder Aug 1997
- Vijaya L. Kanthi " New Kids of the South Block" Indian Architect and Builder Jun 1997
- Vijaya L. Kanthi " The Deaf Way, Jun 1997
- Vijaya L. Kanthi "Young Architects Conference" Indian Institute of Architects

AWARDS AND HONORS

USA: Judge for Children's creative writing competition , Coppel ISD.

Graduate Dean's Fellowship, School of Urban and Public Affairs, UTA - 2000 and 2001;
Don Mabus Graduate Scholarship for the year 2001-2002, UTA;
Scored 5.5/6.0 in TWE, 640/660 in TOEFL and 1850/2400 in GRE examinations for admission into Graduate School at UTA.

India: National Level Topper in GATE Competitive Exam

Editor of College Magazine "Monitor"; Involved in National Social Service as a volunteer

GRANTS AND FELLOWSHIPS

2024: Received Seed money from GVPCDPGC for installing and testing IOT based device in College buses for Road hazard detection and Driver behavior
2023: Received NAAC grant to conduct Outcome Based Education Workshop
2020: Received AICTE sponsored ATAL Grant for conducting National level Faculty Development Program on Construction Technology- Building Information Modelling
2019: Received Seed Money from GVPC DPGC for conducting Speed studies in Visakhapatnam

INVITED TALKS

2020: AICTE Translator- Translated course "Introduction to Mineral processing" from English to Telugu for NPTEL course

2012: Invited for talks on Transportation in Urban areas, ASCII, Hyderabad

CONFERENCES

Presented at Pillai College of Engineering, Navi Mumbai, Oct 2021 on Road Crash identification methodologies using GIS

Presented at National Clean Air Conference, Colorado, USA in 2003 on AirCheckTexas program, 2003

RESEARCH

Black Spot identification methodologies using GIS, Gitam School of Technology, Civil Engineering Department, Visakhapatnam, India

High Emitting Vehicle research, Air Quality Program, North Central Texas Council of Governments- led to development of region-wide AirChecktexas Program for repair and replacement of high emitting vehicles in DFW region.

