

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile: *Dr. Marisamynathan* is an Assistant Professor in the Department of Civil Engineering, National Institute of Technology (NIT) Tiruchirappalli, Tamil Nadu, India. He worked as a Post-Doctoral Research Fellow at SUTD – MIT International Design Centre, Singapore University of Technology and Design, Singapore before joining NIT Trichy in 2018. He received his PhD in Transportation Systems Engineering from Indian Institute of Technology Bombay, India in 2017.



His doctoral research focused on modeling pedestrian crossing behavior, delay and level of service at signalized intersections under mixed traffic conditions. After graduating in Civil Engineering from Government College of Engineering and Technology Karaikudi (ACCET), Anna University, he had obtained a master's degree in Transportation Engineering from College of Engineering Guindy (CEG), Anna University, Chennai, India.

His research interests include road safety and accident analysis, traffic engineering and management, pedestrian and driver behaviour modeling, facility design and evaluation, traffic operation and simulation, freight demand modelling.

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2. Designation: Assistant Professor
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National Institute of Technology,
Tiruchirappalli – 620 015.
4. Telephone (Direct) (Optional): +91-9820481495
5. Email: Primary: marisamy@nitt.edu
Secondary: marisamy1989@gmail.com
6. Field(s) of Specialization: Transportation Engineering

7. Employment Profile

| Job Title | Employer | From | To |
|---------------------------------|---|------------|------------|
| Assistant Professor | National Institute of Technology, Tiruchirappalli | 02.04.2018 | Till date |
| Postdoctoral Research Fellow | Singapore University of Technology and Design, Singapore | Jan. 2018 | March 2018 |

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| Job Title | Employer | From | To |
|----------------------------|---------------------------------------|-----------|-----------|
| Project Research Scientist | Indian Institute of Technology Bombay | Nov. 2017 | Jan. 2018 |
| Research Associate | Indian Institute of Technology Bombay | May. 2017 | Nov. 2017 |

8. Academic Qualifications (From Highest Degree to High School):

| Examination | Board / University | Year | Division/ Grade | Subjects |
|--------------------------------|--|------|------------------------------|------------------------------------|
| Doctor of Philosophy (PhD) | Indian Institute of Technology Bombay | 2017 | - | Transportation Systems Engineering |
| Master of Engineering (M.E.) | College of Engineering Guindy (CEG), Anna University | 2012 | First Class with Distinction | Transportation Engineering |
| Bachelor of Engineering (B.E.) | College of Engineering and Technology Karaikudi (ACCET), Anna University | 2010 | First Class | Civil Engineering |
| HSC | State Board | 2006 | First Class | Mathematics – Biology |
| SSLC | State Board | 2004 | First Class | Mathematics – Science |

9. Academic/Administrative Responsibilities within the University

| Position | Faculty/Department/Centre/Institution | From | To |
|--|--|---------------|-----------|
| Common Evaluation Committee Member for B.Tech. Projects | Civil Engineering Department, NIT Trichy | January 2019 | Till Date |
| Evaluation Committee Member for M.Tech. Projects | Civil Engineering Department, NIT Trichy | July 2018 | Till Date |
| Departmental Hospitality Coordinator for NBA Visits | Civil Engineering Department, NIT Trichy | March 2019 | Till Date |
| Department Admission Committee for M.S./Ph.D | Civil Engineering Department, NIT Trichy | December 2018 | |
| Stock Verification Officer | Institute Library, NIT Trichy | December 2018 | Till Date |
| Member for Seating and Logistics Committee of 14th Convocation | NIT Trichy | August 2018 | |

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10. Academic/Administrative Responsibilities outside the University

| Position | Institution | From | To |
|----------|-------------|------|----|
| NA | NA | NA | NA |

11. Awards, Associateships etc.

| Year of Award | Name of the Award | Awarding Organization |
|---------------|------------------------------|---|
| 2018 | International Travel Support | Department of Science and Technology (DST), Government of India |
| 2018 | TRB Travel Support | Association of Transportation Professionals of Indian Origin |

12. Fellowships

| Year of Award | Name of the Fellowship | Awarding Organization | From (Month/Year) | To (Month/Year) |
|---------------|----------------------------------|---|-------------------|-----------------|
| 2018 | Postdoctoral research fellowship | Singapore University of Technology and Design | Jan. 2018 | Jan. 2019 |

13. Details of Academic Work

(i) Curriculum Development

1. CE835 Transportation Logistics for Postgraduate

(ii) Courses taught at Postgraduate and Undergraduate levels

1. CEPE21 Transportation Planning [UG]
2. CEPC28 Railway, Airport and Harbour Engineering [UG]
3. CE615 Transportation Economics [PG]
4. CE602 Urban Transportation Systems [PG]
5. CE609 Traffic Engineering Laboratory [PG]
6. CE610 CAD in Transportation Engineering [PG]

(iii) Projects guided at Postgraduate level

- *Ph.D. Supervision* [July 2018 Onwards]
 1. Synthesis Approach for Urban Freight Demand Forecasting
- *M.Tech. Supervision* [2018-2019]
 1. Effects of Roadway on Driver Stress: An On-Road Study using Physiological and Psychological Measures
 2. Congestion Measurement and Mitigation on Urban Arterials using Microsimulation

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3. Modelling Drivers Gap Acceptance and Dilemma at Unsignalized Intersection
4. Tour-Based Model on Freight Demand Forecasting – A Case Study of Tiruchirappalli City
5. Operating Speed Prediction Models for Horizontal Curves on Indian Highways
6. Pedestrian Crossing Behavior and Optimal Selection of Pedestrian Facilities at Uncontrolled Intersection

(iv) Other contribution(s)

14. Details of Major R&D Projects

| Title of Project | Funding Agency | Duration | | Status |
|------------------|----------------|----------|----|--------------------|
| | | From | To | Ongoing/ Completed |
| NA | NA | NA | NA | NA |

15. Number of PhDs guided

| Name of the PhD Scholar | Title of PhD Thesis | Role(Supervisor/ Co-Supervisor) | Year of Award |
|-------------------------|---------------------|---------------------------------|---------------|
| NA | NA | NA | NA |

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

| Date (s) | Title of Activity | Level of Event (International/ National/ Local) | Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other) | Event Organized by | Venue |
|------------------|-------------------|---|--|--|------------------|
| July 21-22, 2017 | Conference | International | Paper Presenter | International Conference on Advances in Highway Engineering and Transportation Systems | Sri Lanka |
| Jan. 8-12, 2017 | Conference | International | Paper Presenter | 96th Annual Meeting, Transportation Research Board (TRB) | Washington, D.C. |
| Nov. 8-11, 2016 | Conference | National | Paper Presenter | 9th Urban Mobility India Conference and Expo | Gujarat, India |
| Oct. 21-22, 2016 | Conference | National | Paper Presenter | 32nd National Convention of Civil Engineers | Goa, India |

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|------------------|------------|---------------|-----------------|--|-------------------|
| July 10-16, 2016 | Conference | International | Paper Presenter | 13th World Conference on Transportation Research (WCTR) | Shanghai, China |
| July 4-7, 2017 | Conference | International | Paper Presenter | 14th COTA International Conference of Transportation Professionals (CICTP 2014) | Changsha, China |
| Dec. 19-21, 2016 | Conference | International | Paper Presenter | 12th International Conference of Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC) | Mumbai, India |
| Dec. 10-12, 2014 | Conference | International | Participant | 11th International Conference of Transportation Planning and Implementation Methodologies for Developing Countries | Mumbai, India |
| Dec. 12-15, 2013 | Conference | National | Paper Presenter | 2nd Conference of Transportation Research Group of India (CTRG) | Agra, India |
| Dec. 12-14, 2012 | Conference | International | Paper Presenter | 10th International Conference of Transportation Planning and Implementation Methodologies for Developing Countries | Mumbai, India |
| Mar. 2-3, 2012 | Conference | National | Paper Presenter | National Conference on Advanced Trends in Civil Engineering (NCATCE) | Coimbatore, India |
| 2009 | Symposium | National | Paper Presenter | National Level Technical Symposium in Civil Engineering (LANDMARK) | Coimbatore, India |
| 2008 | Symposium | National | Paper Presenter | National Level Technical Symposium in Civil Engineering Association (GEOFEST) | Coimbatore, India |

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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

| Title of Activity | Level of Event (International/ National/ Local) | Date (s) | Role | Venue |
|-------------------|---|----------|------|-------|
| NA | NA | NA | NA | NA |

18. Invited Talks delivered

| Topic | Date | Inviting Organization |
|--|------------|---|
| Research Opportunities in Transportation Engineering | 19.11.2018 | Alagappa Chettiar Government College of Engineering and Technology (ACGCET) |
| Analysis of Accidents Using SPSS Software | 06.10.2018 | National Institute of Technology Tiruchirappalli (NITT) |

19. Membership of Learned Societies

| Type of Membership (Ordinary Member/ Honorary Member / Life Member) | Organization | Membership No. with date |
|---|--|--------------------------------|
| Life Member | Member of International Association of Engineers (IAENG) | 189320 |
| Ordinary Member | Member of World Conference on Transport Research Society (WCTRS) | - |

20. Academic Foreign Visits

| Country | Duration of Visit | Programme |
|------------------|-------------------|------------------------------|
| Singapore | 3 months | Postdoctoral Research Fellow |
| Sri Lanka | 2 days | International Conference |
| Washington, D.C. | 5 days | International Conference |
| Shanghai, China | 7 days | International Conference |
| Changsha, China | 4 days | International Conference |

21. Publications

(A) Refereed Research Journals:

| Author(s) | Title of Paper | Journal | Volume (No.) | Page numbers | Year | Impact Factor (Optional) |
|----------------------------------|---------------------------------|--------------------------------------|-----------------|-----------------|------|--------------------------------|
| Marisamyn athan S and | Pedestrian perceptions based | Journal of Modern Transportation, | In Press | - | 2019 | |

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|--|--|--|----------|---------|------|--|
| Vedagiri P | level of service model at signalized intersection crosswalks | Springer | | | | |
| Marisamyn athan S and Vedagiri P. | Pedestrian safety evaluation of signalized intersections using surrogate safety measures | Transport, Taylor and Francis | In Press | 1-10 | 2018 | |
| Marisamyn athan S and Vedagiri P. | Modeling Pedestrian Crossing Behavior and Safety at Signalized Intersections in Developing Countries | Transportation Research Record: Journal of the Transportation Research Board | 2672 | 76-86 | 2018 | |
| Marisamyn athan S and Vedagiri P. | Estimation of pedestrian safety value at signalized intersections under mixed traffic conditions | Transportation in Developing Economies (TIDE) | 4(5) | 1-11 | 2018 | |
| Marisamyn athan S and Vedagiri P. | Modelling pedestrian level of service at signalized intersection under mixed traffic conditions | Transportation Research Record: Journal of the Transportation Research Board | 2634 | 86-94 | 2017 | |
| Marisamyn athan S and Vedagiri P. | A new approach to estimate pedestrian delay at signalized intersections | Transport, Taylor and Francis | 33(1) | 249-259 | 2016 | |
| Marisamyn athan S and Lakshmi S. | Method to determine pedestrian level of service for sidewalks in Indian context | Transportation Letters: The International Journal of Transportation Research. Taylor and Francis | 10(5) | 294-301 | 2016 | |
| Marisamyn athan S and Vedagiri P. | A Statistical analysis of pedestrian behaviour at signalized intersections | European Transport\ Transporti Europei, ISTIEE | 57 | 1-18 | 2015 | |
| Marisamyn athan S and Vedagiri P. | Study on pedestrian crossing behavior at signalized intersections | Journal of Traffic and Transportation Engineering, Elsevier | 1(2) | 103-110 | 2014 | |

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(B) Conferences/Workshops/Symposia Proceedings

| Author(s) | Title of Abstract/ Paper | Title of the Proceedings | Page numbers | Conference Theme | Venue | Year |
|---|--|--|------------------|-------------------------------|-------------------|------|
| Marisamy nathan S and Vedagiri P | A Methodology to evaluate pedestrian perceptions based safety level at signalized intersections in developing countries | Transportation Research Board 97th Annual Meeting, | 1-5 | Transportation Engineering | Washington DC | 2018 |
| Marisamy nathan S and Vedagiri P | Study on Pedestrian Crossing Behaviour at Signalized Intersections | ASCE: Proceedings of CICTP 2014: Safe, Smart, and Sustainable Multimodal Transportation Systems | 2641– 2652 | Transportation Engineering | China | 2014 |
| Marisamy nathan S and Vedagiri P | Modelling Pedestrian Delay at Signalized Intersections under Mixed Traffic Conditions | Proceedings of Transportation Research Board 93rd Annual Meeting CD ROM | 1-18 | Transportation Engineering | Washington DC. | 2014 |
| Marisamy nathan S and Vedagiri P | Modelling Pedestrian Delay at Signalized Intersection Crosswalks under Mixed Traffic Condition | Procedia - Social and Behavioral Sciences, Elsevier, | 104, 708–717. | Transportation Engineering | Agra, India | 2013 |

(C) Books & Monographs

| Author(s) | Title of Book/Monograph | Name of Publishers | Year of Publication | ISSN/ISBN Number |
|-----------|-------------------------|-----------------------|------------------------|---------------------|
| NA | NA | NA | NA | NA |