Manu K Poulose |

PhD Research Scholar (PMRF) | IIT Madras

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EDUCATION

Program	Institution	%/CGI	Year of Completion
Dual Degree in Civil Engineering (Minor: Management Studies)	Indian Institute of Technology, Madras	8.68/10 9.0/10	2016
XII (CBSE)	St Anthony's Public School, Anakkal	96.2%	2011
X (CBSE)	St Peter's SS School, Kadayiruppu	94.2%	2009

RESEARCH AREA

- OBJECTIVE: Improve coordination among stakeholder agencies in urban policy formulation
- MOTIVATION: Climate change demand prompt actions for resilient urban systems. Multitude of decision-making agencies lead to incoherent planning and ineffective implementation, resulting in vulnerable urban habitats.
- APPROACH: Simulation tools can mimic complex human systems that can assist decision making process for agencies and identify patterns in evolution of coordination in system.

PUBLICATIONS

- **"Feasibility of Flexible Term Concessions based Real Options in Indian Highway Sector", Asian Transport Studies , POULOSE, M. K., & MAHALINGAM, A., 2019., 5(5), 811-827.**
- Conducted a feasibility study for Flexible Term Concession based Real Options (RO) in Indian Highway Projects, to improve private sector participation
- Developed a Monte Carlo Simulation on revenue model to value Ros and explored practical challenges through semi-structured interviews.
- **"Challenges and prospects of demolition waste recycling in India", The Indian Concrete Journal, Ram V. G., Prajapati R., Poulose M. K., 2019,**
- Explored implementation challenges for demolition waste recycling industry in India.
- Conducted series of semi-structured interviews across construction industry and regions observing the performance of existing recyclers and exploring possibility of improvement in the value chain.

WORK EXPERIENCE

- **Phd Research Scholar, IIT Madras**   (2018 – ongoing)
- Pursuing doctoral research under guidance of Dr. Ashwin Mahalingam
- Funded under the prestigious Prime Minister's Research Fellowship programme
- **Head of Operations, RTF Infra Pvt Ltd**   (2017 – 2018)
- Part of the team that established RTF Infra as a prominent Engineering Consultancy firm in Kerala
- Lead the formation of Geotechnical investigation, Surveying and Transportation arms of RTF Infra
- **Business Analyst, Citicorp India Pvt Ltd**   (2016 – 2017)
- Part of the team that generate insights and evaluate performance of US Retain Banking business of Citibank
- Automated multiple processes to eliminate human errors and improve processing time

INTERNSHIPS

- **Greenvironment India Pvt Ltd, Chennai**   (May – July 2014)
- Proposed and developed a Software to integrate procedures in wastewater treatment plant design as per CPHEEO standards
- Created a user-friendly design platform saving ~80% in comparison with conventional design methods
- Enhanced marketing capacity of company with impromptu design during customer interaction.
- **Delhi Metro Rail Corporation Ltd, Kochi**   (Dec 2013)
- Training in construction procedures and contractual specifications of the Kochi Metro rail construction.
- Developed insights in the process flow and control techniques in a complex project with multiple constraints

AREAS OF INTEREST

Public Private Partnerships   Governance   Coordination Theory   Risk Analysis   Simulations
Organizational Behavior Agent Based Modelling   Decision Support Systems

SKILLS

Monte Carlo Simulations , Agent Based Modeling, Financial Modeling, MS Office, Revit Architecture, Visual Basics