Naveen Ragu Ramalingam, Ph.D. Student in Understanding and Managing Extremes
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AREAS OF INTEREST
Catastrophe model development - floods, storm surge and tsunami, hydrodynamic and hydrological modelling, risk assessment, re/insurance.

PROFESSIONAL EXPERIENCE

SENIOR CONSULTANT, REINSURANCE SOLUTIONS | SEPTEMBER 2014 – NOVEMBER 2020
FLOOD CATASTROPHE MODEL DEVELOPEMENT - IMPACT FORECASTING, AON, BANGALORE.

- ✦ Developing catastrophe models and other research-intensive tasks for re/insurance and DRFI purposes with in-house and external catastrophe managers.
- ✦ Hydrodynamic, hydrologic modelling and nation-wide probabilistic hazard & risk assessment related to flood, storm surge and tsunami in the APAC region – India, Thailand, Malaysia, Vietnam and Japan.
- ✦ Project Manager for Impact Forecasting's flood catastrophe model for Malaysia and tsunami model for Japan.
- ✦ Realtime event response and post event field survey for flood events in APAC region.
- ✦ Implementation of catastrophe models and testing in the in-house loss calculation platform – ELEMENTS and OASIS format.
- ✦ Cooperation with research partners like Deltares on projects related to storm surge and tsunami.
- ✦ Liasoning and collection of data from govt. hydro-meteorological bodies and other data providers.
- ✦ Supporting queries of clients / user group and assisting sales activities.

INTERN/PROJECT STUDENT | JUNE 2013 – JUNE 2014
WATER RESOURCE MONITORING AND ASSESSMENT DIVISION, NATIONAL REMOTE SENSING CENTRE(NRSC), DEPT. OF SPACE, GOVT. OF INDIA, HYDERABAD.

Developed a hydrological model of Wainganga sub basin using VIC macroscale model. Conducted sensitivity analysis for the parameters of VIC model, helped calibrate the near real-time hydrological model developed for India used in national scale water-balance monitoring.

EDUCATIONAL QUALIFICATION

PH.D. STUDENT IN UNDERSTANDING AND MANAGING EXTREMES | 2020 -
ISTITUTO UNIVERSITARIO DI STUDI SUPERIORI DI PAVIA, PAVIA.

M.ENG. HYDROLOGY AND WATER RESOURCES ENGINEERING | 2012-2014
COLLEGE OF ENGINEERING, GUINDY, ANNA UNIVERSITY, CHENNAI.
Thesis: *Sensitivity Analysis of VIC Model Parameters and Estimation of Water Balance Components for the Wainganga Sub Basin.*

B.ENG. CIVIL ENGINEERING | 2008-2012
JERUSALEM COLLEGE OF ENGINEERING, ANNA UNIVERSITY, CHENNAI.
Thesis: *A Comparative Study on the Properties of Manufactured Sand and Natural River Sand*

SCHOLARSHIPS/TESTS

International English Language Testing System(IELTS): 01/2019 (Overall band score of 8.0/9.0)

Graduate Aptitude Test in Engineering(GATE): Scholarship for Master's Degree (2012-2014) by the Ministry of Human Resources Development (MHRD), Government of India.

PRESENTATIONS AND CONFERENCES

Water Future International Conference, Bangalore(2019): Coastal flooding in Vietnam and impact on its deltas.

Global Flood Partnership Annual Meeting, Guangzhou(2019): Flood risk assessment from an insurance perspective – Case study of India.

Impact Forecasting Revealed, Singapore(2017, 2018): The developments and features related to Impact Forecasting's Japan tsunami model.

PUBLICATIONS

Naveen, R., Raju P.V., Abdul Hakeem K. and Karthikeyan M.S. (May 2014). *Hydrological Modelling of Wainganga Sub basin using Variable Infiltration Capacity Model*. Proceeding of Annual Conference on Innovations and Developments in Civil Engineering (ACIDIC - 2014) at National Institute of Technology Karnataka, Surathkal.

SKILLS AND TOOLS

- ✦ Hydrodynamic and hydrologic modelling - TUFLOW, Delft3D, VIC.
- ✦ Programming and data management - R, MATLAB, Python, SQL
- ✦ GIS tools - ArcGIS and QGIS

LANGUAGES

- ✦ English (Professional proficiency)
- ✦ Hindi (Native speaker)
- ✦ Tamil (Native speaker)