# Curriculum Vitae

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**RAGATHARA GURRAPPAGARI ROHITH KIRAN (Ph.D.)**

## EDUCATION

- **Postdoctoral Researcher in Civil Engineering**
  Pukyong National University-Busan, South Korea
  **Research Focused on areas:-**
  *(1) Establishing a Construction Materials database and developing data-based property prediction technology.*
  *(2) Collaborative research with the responsible professor to derive research outcomes.*

- **Ph.D. in Environmental Engineering and Architecture**
  Nagoya University, Japan
  Dissertation title: "*Effect of elevated temperature on water uptake behavior in cement-based materials*" (Supervisor: Dr. Ippei Maruyama)

- **M.Tech. in Infrastructure Engineering and Management**
  Indian Institute of Technology Kanpur, Uttar Pradesh, India
  Thesis title: "*Influence of fine powders on the hydration behavior of Portland cement-based systems*" (Supervisor: Dr. K V Harish)

- **B.Tech. in Civil Engineering**
  National Institute of Technology Tiruchirappalli, Tamil Nadu, India
  Thesis title: "*Stabilization of clay soil by adding industrial waste of Barium carbide*" (Supervisor: Dr. V. Sunitha)

- **Higher Secondary School**
  Narayana Junior college, Vijayawada, Andhra Pradesh, India

- **Secondary School**
  Masterminds IIT Talent School, Madanapalli, Andhra Pradesh, India

## SCHOLARSHIPS, AWARDS & ACHIEVEMENTS

- Research Assistantship, MHRD, Govt. of India 2016- 2018
- Worked for a National project called "**The Analysis of Radionuclide Contamination Mechanisms of Concrete and the Estimation of Contamination Distribution at the Fukushima Daiichi Nuclear Power Station**" conducted from November 2018 to March 2021 by the Ministry of Education, Culture, Sports, Science and Technology, Japan.
- Received a scholarship of (JASSO, Gakusyu-Shoreihi) for Indian students,Japan 2019-2021

## REFEREED JOURNALS

**JP 1**. **Rohith Kiran.,** Hamza Samouh, Go Igarashi, Tatsuto Haji, Takahiro Ohkubo, Sayuri Tomita and Ippei Maruyama, "Temperature-Dependent Water Redistribution from Large Pores to Fine Pores after Water Uptake in Hardened Cement Paste." Journal of Advanced Concrete Technology, vol. 18, no. 10, 2020, pp. 588–599 .

**JP 2**. **Rohith Kiran.,** Hamza Samouh, Akira Matsuda, Go Igarashi, Sayuri Tomita, Kazuo Yamada and Ippei Maruyama, "Water uptake in OPC and FAC mortars under different temperature conditions." Journal of Advanced Concrete Technology, vol. 19, no.3, 2021, pp. 168-180.

**JP 3.** Kazuo Yamada, Go Igarashi, Norihisa Osawa, **Rohith Kiran,** Kazuko Haga, Sayuri Tomita and Ippei Maruyama, "Experimental Study Investigating the Effects of Concrete Conditions on the Penetration Behaviors of Cs and Sr at Low Concentration Ranges." Journal of Advanced Concrete Technology, vol. 19, no. 10, 2021, pp. 756–770 .

## INTERNATIONAL CONFERENCE PAPERS AND PRESENTATIONS

**CP 1**. "Impact of concrete characteristics of the Cs transfer in concrete." Kazuo Yamada, **Rohith Kiran**, Ippei Maruyama, and Sayuri Tomita., コンクリート工学年次論文集, 42(1):419-424 (2020)

**CP 2.** "Experimental study on the transfer of Cs, Sr, Pu and water in concrete for the estimation of contamination." Kazuo Yamada, Ippei Maruyama, Masaya Ida, Haruka Aihara, **Rohith Kiran**, Sayuri Tomita, Go Igarashi, Kazuko Haga, Kazutoshi Shibuya, Atsuhiro Shibata, Yoshikazu Koma, WM2020 Conference (2020), March 8-12, 2020, Phoenix, Arizona, USA

**CP 3.** "A project focusing on the contamination mechanism of concrete after accident at Fukushima Daiichi Nuclear Power Plant." Kazuo Yamada, Ippei Maruyama, Kazuko Haga, Go Igarashi, Haruka Aihara, Sayuri Tomita, **Rohith Kiran**, Norihisa Osawa, Atsuhiro Shibata, Kazutoshi Shibuya, Masaya Ida, Yutaro Kobayashi, Yoshikazu Koma, WM2021 Conference (2021), March 7-11, 2021, Phoenix, Arizona,USA

**CP 4.** "Rate of water redistribution in cement paste after water adsorption by using $^{1}$H-NMR relaxometry." **Rohith Kiran**, Ryo Kurihara, Ippei Maruyama, 2019 年度日本建築学会大会 (北陸）学術講演梗概集, 金沢, pp.357-358, 2019.9.3-6

## RESEARCH INTERESTS

- Microstructure of cement based materials
- Characterization techniques of construction materials
- Mechanical characteristics of construction materials
- Moisture movement of porous building materials

## INTERNSHIP

- **Larsen&Toubro Power "Cuddalore site":-** Worked on a project regarding construction of "Thermal power plant". The project involved study of "chimney construction", tests on concrete, various types of equipment's used for construction, concrete pump, Boom placer, Total station, "along with visit to FOS (Fuel oil storage), FOPH (Fuel oil pump house), cooling towers, coal handling plant.
- **Inplant Training: - At** "UNIQ technologies" in Designing tools & AutoCAD under the guidance of Mr. Sivakumar.