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JongMin Rim

CONTACT INFORMATION

M.S. Student
Department of Civil And Environmental Engineering
Seoul National University

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EDUCATION

M.S. in Seoul National University 2021 – 2023
Major GPA 4.22/4.30, Cumulative GPA 4.22/4.30 (98.4/100) Seoul, Korea
Advisor: Juhyuk Moon

B.S. in Seoul National University 2015 – 2021
Cum Laude - Major GPA 3.75/4.30, Cumulative GPA 3.73/4.30 (93.3/100) Seoul, Korea
Thesis: Computational Fluid Simulation in Pore Structures of Cemented Sand using 3D Computed Micro Tomography. (Advisor : Juhyuk Moon)

RESEARCH INTERESTS

– Computational Methods for Solving PDEs
– Isogeometric Analysis
– Fluid-Solid Interaction
– Reaction Diffusion Process
– Lattice Boltzmann Methods

SKILLS

– Language - English (TOEFL 102/120) / Korean(Native)
– Programming Language - C++ / MATLAB / Python (Machine Learning –TensorFlow, PyTorch)
– Parallel Computing - OpenMP / MPI / CUDA
– Others - Palabos(Parallel Lattice Boltzmann Solver), ParaView (Visualization)
– OS - Linux

COURSES GRADUATE PROGRAM

(457.643) Structural Random Vibration
(3394.503) Parallel Scientific Computation
(3394.506) Advanced Matrix Computation
(M1586.003900) Introduction to Infrastructure Resilience Engineering
(M1586.003500) InfraSPHERE Seminar
(M1586.001700) High Performance Concrete Engineering
(400.505) Introduction to the Finite Element Method
(M1586.002600) Advanced Construction Materials
(457.649) Advanced Structural Analysis
(457.648) Theory of Elasticity
(457.646) Topics in Structural Reliability

PUBLICATIONS & CONFERENCES

- Rim, J.-M & Moon, J.-H.(2022) Assessment of Permeability of Cement Composites with Unresolved Pore Structure by Gray Lattice Boltzmann Method using 3D Micro Tomography – Manuscript in preparation.
- Rim, J.-M & Moon, J.-H.(2022, May 31-June), Permeability and Diffusivity Simulation Based on Gray Lattice Boltzmann Method using 3D Micro Tomography of Cement Composites – Engineering Mechanics Institute Conference 2022, Baltimore, United States.
- Rim, J.-M & Moon, J.-H. (2022, May 11-13) Permeability Analysis of Cement Composites using Lattice Boltzmann Method. – Korean Concrete Institute Spring Conference 2022, Jeju, Rep. of Korea.

- Rim, J.-M & Moon, J.-H.(2021, May 12-14) Permeability Analysis of Cement Composites using 3D Computed Tomography – Korean Concrete Institute Spring Conference 2021, Yeosu, Rep. of Korea.

RESEARCH PROJECTS

- Assessment of 3D Dispersion of Waste Fishing Net Fiber and Dynamic Properties of Cement Composites using X-ray Micro Tomography (Korea Institute of Ocean Science and Technology,2021)
- Quantification of Self-Healing Performance using X-ray Micro Tomography. (Korea Agency for Infrastructure Technology Advancement, 2021)
- Development of Foundation for Urban Seismic Disaster Assessment and Prevention. (Daelim Suam Foundation, 2019 – 2020)

INTERNSHIPS

- Geotechnical Engineering Laboratory (Advisor: Choongi Jeong) 2019-W
  Seoul National University
  - Assistant for Study about Interpolation Methods of Geotechnical Information using Geostatistics
- Multiscale Structural Materials Laboratory (Advisor: Juhyuk Moon) 2020-S, 2020-F, 2020-W
  Seoul National University
  - Topic : Fluid Simulation in Porous Media using Finite Volume Methods

TEACHING ASSISTANT

(457.201.001) Mechanics of Materials and Lab 2022-S

SCHOLARSHIPS

- Lecture & Research Scholarship from Seoul National University 2022-S
- Merit based Scholarships from BrainKorea21 Four 2021-S, 2021-F
- Merit based Scholarships from the Education and Research Foundation College of Engineering SNU 2020-S
- Merit based Scholarships from Seoam Scholarship Foundation 2015-S, 2015-F, 2019-F

EXTRA-CURRICULAR ACTIVITIES

Squad Leader (Sergeant) at Republic of Korea Army March 2017 - December 2019
– Served as Combat Engineer in Recon Battalion of 27th Infantry Division Hwacheon, Korea
– Operation at Dispatch to Korean Demilitarized Zone (6 Month)
– Operation at Dispatch to East Sea Vigilance Operation (3 Month)
– Honorably discharged with the rank of Sergeant