



# Curriculum Vitae

**Eun Jeong**

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## AFFILIATION

4<sup>th</sup> semester at Master Program  
Ulsan National Institute of Science & Technology (UNIST)  
UNIST-gil 50, Ulsan Metropolitan City, Republic of Korea, 44919

## EDUCATION

Bachelor of Engineering  
• Major: Nuclear Engineering  
• Kyung Hee University(KHU), Suwon, Korea, 2012.03~2016.02

## WORK EXPERIENCE

- Mosteller Benchmark
  - Doppler-defect benchmark by Monte Carlo Code
  
- Design of opr1000 reactor core for long cycle operation
  - Core design for mixed cycle operation
  - Core design for parallel operation
  - Fuel cycle economic evaluation
  
- MCS Monte Carlo code criticality validation
  - MCS Monte Carlo code criticality validation by spent fuel pool criticality experiment benchmark
  
- DeCART/CAPP code system validation using VHTR PMR-200 benchmark problem
  
- Kinetics parameter calculation of STREAM MOC code
  - Kinetics parameter calculation for Nodal diffusion code
  
- Transient simulation with RAST-K 2.0 nodal diffusion code

## RESEARCH INTERESTS

- Design of Nuclear reactor
- Kinetics parameter calculation of MOC code

## INTERNSHIP

1. KAIST NQe researching Internship program: Studying about eutectic melting of FeCrAl/Zr Duplex cladding for Accident Tolerant Fuels (ATFs) at the Nuclear material laboratory

**CERTIFICATES**

- Awards & Scholarship
  - Scholarship for natural sciences and engineering excellent student in nation (May,2015)
  - Prize for 2014 nuclear engineering creative integrated design contest exhibit hosted by the department of engineering in Kyung Hee University (November, 2014)
  - Prize for rank forth: Radioactive Waste Competitive Exhibition hosted by KORAD (December, 2013)
- Training (International)
  - Reactor PHysics Asia eXperiment Program ( $\alpha$ XP) (KUCA, Japan, January, 2018)
- Training (Domestic)
  - Reactor core design: theory and practice, KAERI (Daejeon, June, 2017)
  - High Accuracy & Multi-Physics Nuclear Power Plant Design (Daejeon, August, 2016)
  - McCARD user training course (Daejeon, August, 2016)
  - Reactor core design: theory and practice, KAERI (Daejeon, August, 2016)
  - Training for nuclear plant system using PC based simulator, KAERI (Daejeon, August, 2015)
  - Thermal hydraulics experiment program with KHU, SNU, HYU (August,2014)

**PUBLICATIONS  
SCI Journal**

1. **Eun Jeong**, Jinsu Park, Hyun Chul Lee, Peng Zhang, Deokjung Lee\*, "Analysis of Very High Temperature Gas-Cooled Reactor PMR-200 with DeCART/CAPP Code System", *Annals of Nuclear Energy*, Revision (2018)
2. Jaerim Jang, Wonkyeong Kim, Sanggeol Jeong, **Eun Jeong**, Jinsu Park, Matthieu Lemaire, Hyunsuk Lee, Yongmin Jo, Peng Zhang, Deokjung Lee\*, "Validation of UNIST Monte Carlo Code MCS for Criticality Safety Analysis of PWR Spent Fuel Pool and Storage Cask," *Annals of Nuclear Energy*, 114: 495-509. <https://doi.org/10.1016/j.anucene.2017.12.054> (2018)
3. **Eun Jeong**, Jiwon Choe, Peng Zhang, Ho Cheol Shin, Deokjung Lee\*, "New High Performance Light Water Reactor Core Concept with Mixed Cycle Length Operation", *Int. J. Energ. Res.*, 42: 53-67. <http://dx.doi.org/10.1002/er.3738> (2018)

**International  
Topical Meeting**

1. **Eun Jeong**, Sooyoung Choi, Ho Cheol Shin, Ji Eun Jeong, Hwan Soo Lee, Deokjung Lee, "Verification of Kinetics Parameters Calculation Capability in STRE AM MOC Code," RPHA17, Chengdu, Sichuan, China, August 24-25 (2017) [Oral presentation]
2. Hyunsuk Lee, **Eun Jeong**, Hocheol Lee, Hyun Chul Lee, Deokjung Lee\*, "Verification of MCS VHTR Modeling Capability," RPHA17, Chengdu, Sichuan, China, August 24-25 (2017) [Oral presentation]
3. **Eun Jeong**, Jinsu Park, Hyun Chul Lee, and Deokjung Lee\*, "Verification of DeCART/CAPP Code System for VHTR Core with PMR-200 Benchmark," ICAPP2017, Kyoto, Japan, April 24-28 (2017) [Oral Presentation]

**International and  
Domestic Conferences**

1. **Eun Jeong**, Ho Cheol Shin, Jiwon Choe, Deokjung Lee, "Impact of Erbium in Long Cycle Operation of PWR," *2016 KNS Fall Meeting*, Gyeongju, Korea, October 26-28, (2016)
2. Ho Cheol Shin, **Eun Jeong**, Jiwon Choe, Deokjung Lee, "Impact of UO<sub>2</sub> Enrichment of Fuel Zoning Rods in Long Cycle Operation of PWR," *2016 KNS Fall Meeting*, Gyeongju, Korea, October 26-28, (2016)

**PATENT**