

Curriculum Vitae

Seongpil Yum



T. +82-10-3009-8594 / F. +82-52-217-2972 / kalmia63@unist.ac.kr
Ulsan National Institute of Science and Technology
UNIST Gil-50(689-798), Ulsan, Republic of KOREA

AFFILIATION

Researcher of Nuclear Engineering
Ulsan National Institute of Science & Technology (UNIST)
UNIST-gil 50, Ulsan Metropolitan City, Republic of Korea, 689-798

EDUCATION

Undergraduate

- 1st track: Nuclear Science & Engineering
- 2nd track: Physics
- UNIST, Ulsan, Korea, (2010.3 - Present)

WORK EXPERIENCE

- Internship
 - Korea Hydro & Nuclear Power Central Research Institute (KHNP, June 26 ~ August 5, 2016)
 - University of Illinois Urbana-Champaign, Analysis of Reactor Transients and Stability laboratory (UIUC, January 2 ~ February 24, 2017)

CERTIFICATES

- Awards & Scholarship
 - Nuclear Technology Undergraduate Student Society Scholarship, National Research Foundation of Korea (June 2016 ~ June 2017)
- Training (Domestic)
 - Nuclear engineering experiment training course (KAERI, August 29 ~ September 2, 2016)
 - Nuclear Reactor Core Design Theory and Training course (KAERI, June 27 ~ June 30, 2017)
 - Tachyon2 System training course (KISTI, July 7, 2017)
- Training (Domestic)
 - KUCA Experiment Kyoto University (Osaka, October 10 ~ October 13, 2017)
- Computer skills
 - MATLAB
 - FORTRAN
 - MATHEMATICA
 - PERL
- Reactor Core Analysis Code
 - CASMO

- SIMULATE
- MCS
- RASTK

International and Domestic Conferences

1. **Seongpil Yum**, Jaemin Kim, Ho Cheol Shin, Minyong Park, Jiwon Choe, Peng Zhang, and Deokjung Lee* (2016), “Accuracy Improvement of Axial Power Shape Reconstruction Using GMDH Algorithm”, *Transactions of the Korean Nuclear Society Autumn Meeting*, Gyeongju, Korea, October 27-28, 2016(accepted for poster)
2. **Seongpil Yum**, Ho Cheol Shin, Minyong Part, Jiwon Choe, Peng Zhang, and Deokjung Lee* (2017), “Application of GMDH to Cross Section Functionliaztion”, *International Conference on Mathematics & Computational Methods Applied to Nuclear Science & Engineering*, Jeju, Korea, April 16-20, 2017 (accepted for poster)
3. **Seongpil Yum**, Jiwon Choe, Sooyoung Choi, Peng Zhang, and Deokjung Lee* (2017), “Pin-by-pin core calculation with SPH factor for improving accuracy of pinwise calculation”, *Transactions of the Korean Nuclear Society Spring Meeting*, Jeju, Korea, May 18-19, 2017 (accepted for poster)
4. **Seongpil Yum**, Ho Cheol Shin, Jiwon Choe, Peng Zhang, Farrokh Khoshahval and Deokjung Lee* (2017), “Application of GMDH to Cross Section Functionliaztion”, *Proceedings of the Reactor Physics Asia 2017 (RPHA17) Conference*, Chengdu, China, Aug 24-25, 2017 (accepted for presentation)

PUBLICATIONS SCI Journal

1. Farrokh Khoshahval, **Seongpil Yum**, Peng Zhang, Jiwon Choe, Ho Cheol Shin, and Deokjung Lee* (2017), “Smart Sensing of the Axial Power and Offset in NPPs using GMDH Method”, *Computer Physics Communications*, Under review

ENGLISH CERTIFICATION

TOEIC 850

UNDERGRADUATE COURSES TAKEN

Fundamentals of Nuclear Engineering
Introduction to Nuclear Reactor Theory
Introduction to Nuclear Fuel Cycle Engineering
Introduction to Nuclear Reliability Engineering
Nuclear Reactor Numerical Analysis
Nuclear Materials Engineering & Experiment
Nuclear Radiation Engineering & Experiment
Nuclear Engineering Design and Lab IV
Differential Equations
Applied Linear Algebra
Mathematical Physics I
Quantum Physics I
Solid Mechanics I
Fluid Mechanics
Fundamentals of Electromagnetics

October 11, 2017

Electromagnetism I
Thermodynamics of Materials
Engineering Programming I, II