

# YOUNGJUN LEE

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## RESEARCH INTERESTS

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High order numerical method; Computational mathematics; Computational magnetohydrodynamics and gas dynamics; High-energy-density physics

## EDUCATION

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<b>Ph.D.</b> , Applied Mathematics & Statistics University of California, Santa Cruz	Present
<b>M.S.</b> , Plasma Physics Chung-Ang University, Seoul, South Korea	2016
<b>B.S.</b> , Physics Chung-Ang University, Seoul, South Korea	2014

## RESEARCH EXPERIENCE

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<b>Korea Institute of Radiological and Medical Sciences</b> <i>Research Assistant</i>	Mar. 2016–Jul. 2016 <i>Seoul, South Korea</i>
· Simulation studies about the mono-energetic laser-produced proton beam in cancer therapy	
<b>Plasma Theory and Nonlinear Dynamics Lab., Chung-Ang University</b> <i>Graduate Researcher</i>	Mar. 2014–Mar. 2016 <i>Seoul, South Korea</i>
· Studies on the Growth Rate of Richtmyer-Meshkov Instability	
· Making a low cost, flexible and high reliable MHD code	

## TEACHING EXPERIENCE

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<b>University of California, Santa Cruz</b> <i>Graduate Instructor</i>	Spring and Fall 2018 <i>Santa Cruz, CA</i>
· AMS 129: Foundations of Scientific Computing	
<b>University of California, Santa Cruz</b> <i>Teaching Assistant</i>	Winter 2017–Winter 2019 <i>Santa Cruz, CA</i>
· AMS147: Computational Methods and Applications	
· AMS 20: Mathematical Methods for Engineers II	
· AMS 10: Mathematical Methods for Engineers I	
· AMS 3: Precalculus For The Social Sciences	
<b>Chung-Ang University</b> <i>Teaching Assistant</i>	Spring 2014–Fall 2015 <i>Seoul, South Korea</i>
· General Physics	
· General Physics Experiment	

## PUBLICATIONS

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1. M. KIM, Y. LEE, H.-H. PARK, S. J. HAHN, AND C.-G. LEE, *Computational fluid dynamics simulation based on hadoop ecosystem and heterogeneous computing*, *Computers & fluids*, 115 (2015), pp. 1–10