

Jung Lee, Ph.D.

Associate Professor at Milwaukee School of Engineering

Milwaukee, WI, US

Dr. Jung Lee is an expert in bioinformatics, drug design and molecular modeling.

Biography

Dr. Jung Lee joined the faculty at Milwaukee School of Engineering in 2011 and is currently an associate professor in the Physics and Chemistry Department. Lee is also part of a team of faculty and students working on a National Science Foundation I-Corp funded research project titled "Developing an Artificial Red-Blood-Cell Product." He also has been involved with the Clinical and Translational Science Institute of Southeast Wisconsin (CTSI), and the MSOE Center for BioMolecular Modeling. He will be serving as the Milwaukee section chair of the American Chemical Society in 2021.

Areas of Expertise

Molecular Modeling, Computational Biology, Chemistry, Biomolecular Engineering, Bioinformatics, Systems Biology, Drug Design

Affiliations

Society for Biological Engineering : Member, Molecular Modeling in Life Sciences : Member, Drug Discovery Biology Community : Member, American Association of Pharmaceutical Scientists : Member, Bioinformatics Computing : Member, Comparative Genomics : Member, Genomics : Member, Computational Biology : Member, Computational Proteomics : Member, NexGen Sequencing : Member, Systems Biology : Member, Systems Biology for Medical Research : Member, American Society for Cell Biology : Member, American Society of Human Genetics : Member, American Institute of Chemical Engineers : Member, American Chemical Society : Member, International Society for Computational Biology : Member, Fragment-Based Drug Discovery : Member, Journal of Computational Biology and Bioinformatics Research : Editor, International Journal of Structural and Computational Biology : Editor

Event and Speaking Appearances

Biodata Science

Guest lecture for CS-4981 (Topics in Computer Science, Dr. RJ Nowling)

Computational Tool Development to Identify and Visualize Protein-Protein Interactions

MSOE Fall Forum

jBPCI: A Bioinformatics Tool to Identify Basepairs and Their Conformations in RNA Structure

Gordon Research Conference on Visualization in Science & Education

Red Blood Cell Engineering
NSF I-Corps National Program Final Presentation

Visualization and Model Building of Macrophage Migration Inhibitory Factor in Complex with ISO-66
Gordon Research Conference on Visualization in Science & Education

Education, Licensure and Certification

I-Corps National Program Training Certificate
National Science Foundation

Training Certificate
Biosafety Level 2 (BSL-2)

Bioreactor and Fermentor Training
With Charles Villan

Ph.D.
Bioinformatics and Medicinal Chemistry The University of Texas at Austin

M.S.
Quantum and Computational Chemistry Korea Advanced Institute of Science and Technology

B.S.
Chemistry Kyung Hee University at Seoul

Accomplishments

Karl O. Werwath Engineering Research Award
MSOE, 2017

Finalist for the Falk Engineering Educator Award
MSOE, 2016 & 2017

Korean Government National Honors Fellowship
1989 - 1991

William Orr Dingwall Scholarship
1999 - 2000

Johnson & Johnson Endowed Graduate Scholarship,
1998 - 1999

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