

Education

- 1997 – 2000 **PhD**, *Civil and Environmental Engineering*, University of California at Los Angeles, Los Angeles, CA, USA.
Title *Dynamics of Particle Aggregation at Engineered and Natural Interfaces*
Co-advisers Prof. Keith D. Stolzenbach and Prof. Menachem Elimelech (currently at Yale)
- 1996 – 1997 **MS**, *Civil and Environmental Engineering*, University of California at Los Angeles, Los Angeles, CA, USA.
Emphasis in Environmental Engineering
- 1992 – 1994 **MS**, *Physics*, Yonsei University, Korea.
Theoretical Condensed Matter and Statistical Physics
Title *Monte Carlo Study of Magnetic Property in Polyacetylene*
- 1992 – 1994 **BS**, *Physics*, Kyung Hee University, Korea.
Graduated with honor

Academic Experience

- Department of Civil and Environmental Engineering, University of Hawaii at Manoa
 - *Associate Professor* August 2006 – Present
 - *Assistant Professor* August 2001 – July 2006
- Water Resources Research Center, University of Hawaii at Manoa
 - *Research Associate* August 2012 – Present
- Civil and Environmental Engineering, the University of California, Los Angeles
 - *Instructor* Winter Quarter, January 2001 – April 2001
- Institute of the Environment, the University of California, Los Angeles
 - *Postdoctoral Researcher* April 2000 – June 2001
- Civil and Environmental Engineering, the University of California, Los Angeles
 - *Graduate Research Assistant* July 1998 – March 2000
 - *University of California Regent Scholar* July 1997 – June 1998
- Natural Science Research Institute, Yonsei University, South Korea
 - *Researcher* March 1994 – July 1995

Research Interests

- Membrane-based renewable desalination and energy production
- Dissipative hydrodynamics (DHD) for swimmers, confined colloids, and aggregates
- Computational fluid dynamics (CFD) using high performance parallel computing

Civil and Environmental Engineering, University of Hawaii at Manoa
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Awards

- **University of Hawaii Regents' Medal for Excellence in Teaching (2017)**
- 10 Years of Service Award, Department of Civil and Environmental Engineering, UH Manoa (2011)
- Researcher of the Month from High Performance Computing at University of Hawaii (March 2007)
- **University of Hawaii Regents' Medal for Excellence in Research (2006)**
- **National Science Foundation Faculty Early Career (CAREER) Award (2005–2010)**
- Certificate of Merit Award for Oral Presentation at the 228th American Chemical Society National Meeting (2004)
- Outstanding Service Award, North American Membrane Society Annual Meeting (2004)
- Dissertation Year Fellowship from the Department of Civil and Environmental Engineering, University of California at Los Angeles (1999–2000)
- Graduate Student Fellowship from the Department of Civil and Environmental Engineering, University of California at Los Angeles (1998–2000)
- University of California Regent Scholarship (1997–1998)
- Graduated Kyung Hee University, Korea, B.S. with Honors (1991)

Honors and Recognitions

- Invited professor, Korea Research Institute of Ships and Ocean Engineering, Fall, 2014.
- University of Hawaii at Manoa Faculty Senate, Fall, 2012 – Spring, 2014.
- UH Manoa Faculty Senate Member of Committee of Graduate Research and Education, 2012 – 2014.
- 2000 Outstanding Intellectuals of the 21st Century, *International Biographical Center, UK*, 2010 – Present
- International Scholar, Dept. of Chemical Engineering, Kyung Hee University, Korea, 2009 – 2011.
- Nature Review Panelist (2008 – 2011)
- Visiting Professor, Rice University (2008)
- Editorial Board for *Journal of Membrane and Separation Technology*, 2016 – present.
- Editorial Board for *Computer Applications in Engineering Education*.
- Editorial Board for *Journal of Environmental Engineering and Ecological Science*
- Editorial Advisory Board for *Recent Patents on Chemical Engineering*
- Editorial Board for *ASCE Journal of Energy Engineering* (2007–2011)
- Listed in Strathmore's WHO'S WHO (2002–Present)

Student Awards

- Frances Davis Award for Excellence in Undergraduate Teaching for a Graduate Assistant (2013), Mr. Lelemia Joshua Irvine, Teaching Assistant of CEE 271 (2011 Spring and 2012 Spring)

Professional Society Memberships

- Association of Environmental Engineering and Science Professors (AEESP)
- American Chemical Society (ACS)
- American Geographic Union (AGU)
- American Institute of Chemical Engineers (AIChE)
- American Physical Society (APS)
- American Society of Civil Engineers (ASCE)
- International Association of Colloid and Interface Scientists (IACIS)
- North American Membrane Society (NAMS)

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