

# CURRICULUM VITAE

(last updated: August 23, 2024)

## Meesoon Ha

Professor

Dept. of Physics Education, Chosun University, Gwangju 61452, Korea (ROK)

(phone) +82-62-230-6632 (fax) +82-62-232-8122 (cell) +82-10-8808-1670 (e-mail) [msha@chosun.ac.kr](mailto:msha@chosun.ac.kr)

### Research Interests

I am interested in the applications of statistical physics in terms of simple minimal model studies with essential features of complex systems. The below research topics are what I am currently involved in:

- **Phase transitions: Finite-size scaling and universality class; Quantum & Stochastic thermodynamics**
- **Kinetic roughening and multifractality in thin film growth processes; Multiscale nature**
- **Nonequilibrium stochastic processes: Self-organized criticality; Synchronization**
- **Dynamics on and of complex networks: Epidemic process; Social contagion; Neuroscience**
- **Patterns and collective behavior in granular media and/or colloidal particle systems**
- **Random constraint satisfaction (NP-complete) problems: K-SAT and Q-COL**
- **Glass and jamming transitions with dynamic heterogeneity; Disordered systems**

### Professional Experience

- 2022.09. - 2024.08. Chairperson, Dept. of Physics Education, Chosun University
- 2022.03. - present Professor, Dept. of Physics Education, Chosun University
- 2019.08. - 2020.07. Visiting Associate Professor, Dept. of Physics, University of Washington
- 2017.03. - 2022.02. Associate Professor, Dept. of Physics Education, Chosun University
- 2017.03. - 2019.02. Chairperson, Dept. of Physics Education, Chosun University
- 2011.03. - 2017.02. Assistant Professor, Dept. of Physics Education, Chosun University
- 2007 - 2011 BK21 Research Professor, Dept. of Physics  
Korea Advanced Institute of Science and Technology (KAIST)
- 2006 - present Associate Member, School of Physics, KIAS
- 2006 - 2007 Brain Korea 21 (BK21) Endowed Professor  
Dept. of Physics, Chonbuk National University
- 2003 - 2006 Postdoctoral Research Fellow, School of Physics  
Korea Institute for Advanced Study (KIAS)
- 1997 - 2003 RA and TA, Dept. of Physics, University of Washington, U.S.A.
- 1995 - 1996 Part-time Lecturer & Staff of General Physics Lab
- 1993 - 1995 Research Assistant (RA) and Teaching Assistant (TA)  
Dept. of Physics, Korea University

### Official Visits

- 2018 summer; 2014; 2013; 2012 Prof. Bae-Yeun Ha's group  
Dept. of Physics and Astronomy, University of Waterloo, Waterloo, Canada
- 2024.08.02. - 10; 2023.02.13. - 20 ; 2019.02.06. - 14.; 2018.01.07. - 15.; 2017.01.21. - 27.;  
2011.12.28. - 2012.01.20. Prof. Marcel den Nijs' group  
Dept. of Physics and Astronomy, University of Washington, Seattle, U.S.A.  
[see <http://faculty.washington.edu/london/index.html>]
- 2008.05.10. - 06.01. Nordic Institute for Theoretical Physics, Stockholm, Sweden  
"Physics of Distributed Information Systems" (PhysDIS) program and workshop  
[see <http://agenda.albanova.se/conferenceDisplay.py?confId=296>]
- 2006.11.06. - 12.01. Prof. M. Paczuski's complexity science group  
Dept. of Physics and Astronomy, University of Calgary, Calgary, Canada  
[see <http://www.ucalgary.ca/complexity/people/faculty/maya>]
- 2002.12.23. - 2003.01.23. Prof. H. Park's group, School of Physics, KIAS, Korea

## Education

- 1997 - 2003 Ph.D. in Physics at the University of Washington, Seattle, U.S.A.  
Specialty: Condensed-Matter Theory and Statistical Physics  
Ph.D. dissertation with Prof. Marcel den Nijs:  
"Scaling and phase transitions in 1D nonequilibrium driven systems"
- 1993 - 1995 M.S. in Physics at Korea University, Seoul, Korea  
Specialty: Statistical Physics  
M.S. thesis with Prof. In-mook Kim and Prof. Hyunggyu Park:  
"Dynamic properties of one-dimensional nonequilibrium interfaces"
- 1989 - 1993 B.S. in Physics at Inha University, Incheon, Korea

## Awards and Honors

- Award for the Best Teacher (ABT) for 2019-1, 2020-2, 2021-1,2 at EIC, Chosun University
- 2017.02.23. Best Professor for Class Evaluation in College of Education, Chosun University
- 2016.02.15. & 10.14. ACE Best Teacher at Fall 2015 & Spring 2016, Chosun University
- 2010.09.28. "Marquis Who's Who in the World 2011 (28th edition)" Selection & Inclusion
- 2010.04.21. Yong-Bong Prize (under 40-year-old stat. physicist) at Korean Physical Society
- 2001 Full scholarship at International Summer School (FPSPX), Altenberg, Germany
- 1994.03.26. & 09.10. Baekwoon private fellowships at Korea University, Seoul, Korea
- 1990 - 1992 Honor student scholarships at Inha University, Incheon, Korea

## Professional Memberships and Activities

- Chairperson, Dept. of Physics Education at CSU, March 2017 - February 2019; September 2022 - August, 2024
- Editor, PHYSICS & HIGH TECHNOLOGY, May 2021 - April 2024; NPSM (KPS), May 2016 - April 2025
- Appointed Admission Interviewer at Chosun University (CSU), 2013 - 2019; 2024 ~
- Member of Local Organizing Committee, STATPHYS 25, July 22 - 26, 2013
- Reviewer, National Research Foundation (NRF - Korea) proposal since 2010
- Appointed Admission Interviewer at KAIST, 2009 & 2010
- Referee, NPSM, JKPS, PRL, PRE since 2007; JSTAT since 2008; CEJP, Phys. Lett. A, EPL since 2010; EPJB, JPA since 2015; Scientific Report since 2016; Aerospace and Sustainability since 2018
- Reviewer, National Science Foundation (NSF - U.S.A.) proposal since 2007
- Member, Molecular Dynamics simulation Research Group (MDRG), 2007
- Member, 2030 Kangwon Frontier Brain (youngman) Group since 2007
- Member, The APS since 1997 (NW section, 1998), The KPS since 1994 (Division of SP, 2003)
- Mentor, 1st year physics graduate students at the University of Washington (UW), 2002 - 2003
- Volunteer and member, The CDO for Physicists and Astronomers at the UW, 2001 - 2003

## Grants

\* National Research Foundation (NRF) of Korea, grant funded by the Korean government

Senior Researchers for 5 years (March 2020 - February 2025); *Qualified Scientists in Local Universities* for 3+3 years (June 2014 - May 2020); *Female Scientists* - since May 2011 for 3 years (May 2011 - April 2014).

\* Chosun University Research Fund (October 2020 - September 2021, 2019; 2018; 2013; 2011)

## Computer Skills

- Extensive knowledge: Unix, Linux, Windows/OS2, C/C++, LaTeX, Gnuplot, Xfig, Overleaf
- Working knowledge: Mathematica, Origin, Fortran, HTML, MacOS, MS Office, ZOOM
- Familiar with: MatLab, Maple, Photoshop, Xmgrace, Python, Julia, Colab, Jupyter, OBS

## Personal Data

- Date and Place of Birth: December 07, 1970, Seoul, Korea (ROK)
- Languages: Fluent in Korean and American English ● Marital status: Married, One child