

# SangMok Han

Laboratory for Simulation and Modeling  
Paul Scherrer Institute  
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## EDUCATION

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<b>M.S. in Mechanical Engineering</b> ETH Zurich	2023 – Present Zurich, Switzerland
<b>B.S. in Mechanical Engineering</b> University of Melbourne	2018 – 2022 Melbourne, Australia

## EXPERIENCE

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<b>Master's Thesis</b> Paul Scherrer Institute	Sep 2024 – Present Villigen, Switzerland
<ul style="list-style-type: none"><li>· Title: <i>Large eddy simulation of flow and dispersion in simple urban geometries</i></li><li>· Advisor: Abdelouahab Dehbi</li></ul>	
<b>Semester Project</b> ETH Zurich	Feb – May 2024 Zurich, Switzerland
<ul style="list-style-type: none"><li>· Title: <i>Smooth and adaptive density estimation</i></li><li>· Advisor: Daniel W. Meyer</li></ul>	
<b>Research Intern</b> Yonsei University	Jul – Aug 2023 Seoul, South Korea
<ul style="list-style-type: none"><li>· Project: <i>Numerical analysis of lid-driven cavity flow</i></li><li>· Turbulence Lab, Department of Computational Science and Engineering</li></ul>	
<b>Research Intern</b> Korea Advanced Institute of Science and Technology	Apr – Jun 2023 Daejeon, South Korea
<ul style="list-style-type: none"><li>· Project: <i>Embedded 3D printing of liquid metal within viscoplastic matrices</i></li><li>· Fluid &amp; Interface Laboratory, Department of Mechanical Engineering</li></ul>	
<b>Vacation Student</b> Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Nov 2022 – Apr 2023 Melbourne, Australia
<ul style="list-style-type: none"><li>· Projects: <i>CFD modeling of slag flow on a spinning disk, Modeling supersonic airflow in a Laval nozzle</i></li><li>· Advisors: Peter Witt, Yuqing Feng</li></ul>	
<b>Research Intern</b> University of Sydney	Jun – Jul 2022 Sydney, Australia
<ul style="list-style-type: none"><li>· Project: <i>Numerical simulation of intranasal drug delivery</i></li><li>· Advisor: Agisilaos Kourmatzis</li></ul>	
<b>Sergeant</b> Republic of Korea Army	Jan 2019 – Aug 2020 Jindo, South Korea

## RESEARCH INTERESTS

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Wall-Bounded Turbulent Flows, Multiphase Flows, Bluff Body Aerodynamics, Large Eddy Simulation, Direct Numerical Simulation.

## TEACHING

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### Teaching Assistant:

- Computational Multiphase Thermal Fluid Dynamics (151-0170-00L) | ETH Zurich Spring 2025
- Mass Transfer (151-0917-00L) | ETH Zurich Autumn 2024

## SKILLS & ACCOMPLISHMENTS

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### Languages:

- Korean: Native
- English: Bilingual proficiency
- Chinese: Limited professional proficiency

### Honors & Awards:

- Summer Research Scholarship | Yonsei University 2023
- Undergraduate Vacation Studentship | CSIRO 2022 – 2023
- Engineering and IT Foundation Graduate Scholarship (Declined) | University of Melbourne 2022
- Engineering Vacation Research Internship Program Scholarship | University of Sydney 2022
- Student Grant | University of Melbourne 2022
- Leaders in Communities Award | University of Melbourne 2022
- Melbourne International Undergraduate Scholarship | University of Melbourne 2022

## VOLUNTEER EXPERIENCE

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- Student Ambassador | Faculty of Science, University of Melbourne 2022
- Peer Mentor | Faculty of Science, University of Melbourne 2021
- Korean-English Translator | International Agriculture Exhibition, South Korea 2019
- Student Volunteer | University of Melbourne Chapter, Engineers Without Borders Australia 2018

*Last compiled: Feb 2025*