



TO MAGNIFICA RETTRICE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 7032

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Matematica Federico Enriques**

Scientist- in - charge: **Prof. Cavaterra Cecilia**

[Daehee Cho]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Cho
Name	Daehee

PRESENT OCCUPATION

Appointment	Structure
Ph.D. candidate	Department of Mathematical Sciences of the Korea Advanced Institute of Science and Technology (KAIST).

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Applied Mathematics	Kyung Hee Univ.	2019
Specialization			
PhD	Mathematics	KAIST	Expected 2025
Master	Mathematics	KAIST	2021
Degree of medical specialization			
Degree of European specialization			
Other			



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of Association	City
2023	Inverse Problems International Association (IPIA)	Göttingen, Germany

FOREIGN LANGUAGES

Languages	level of knowledge
English	Middle

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2021--present	Awarded HongSan Scholarship, HongSan.
2024	The Grand Prize in Poster presentation, KMS conference
2020	Outstanding Teaching Assistant Award, KAIST

TRAINING OR RESEARCH ACTIVITY

<p>I have a deep interest in partial differential equations (PDEs) and inverse problems, particularly within the Lamé system. During my graduate studies, I completed advanced courses on nonlinear PDEs. Regarding applied mathematics, I have taken various courses related to optimization, including methodologies used in engineering, and I have a general understanding of subjects related to AI.</p> <p>I am currently conducting research using Physics-Informed Neural Networks (PINNs). My primary research focuses on the analytical methodology for recovering inclusions in two-dimensional linear elasticity equations. The results of this study were published in SIAP on 4 December 2024.</p> <p>Recently, while conducting research on the Lamé system, I found it necessary to study strong elliptic PDEs. I approached the topic with great enthusiasm and found it both fascinating and deeply engaging, which significantly captured my interest.,</p> <p>I am actively working on extending and applying these research findings. I am strongly interested in PDEs, analytical methodologies, and optimization, and I am ready to dedicate myself to further research in these areas.</p>
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PROJECT ACTIVITY

Year	Project

PATENTS

Patent



CONGRESSES AND SEMINARS

Date	Title	Place
2024	Analytic asymptotic formulas for effective parameters of arbitrarily shaped planar elastic composites under extreme material conditions	KMS Annual Meeting, Suwon, Korea
2024	Analytic reconstruction of elastic inclusion shape using elastic moment tensors	KMS Spring meeting, Daejeon, Korea
2023	Analytic shape recovery of an elastic inclusion from elastic moment tensors	Applied Inverse Problem Conference 2023, Göttingen, Germany

PUBLICATIONS

Books

Articles in reviews

Congress proceedings
Analytic Shape Recovery of an Elastic Inclusion from Elastic Moment Tensors, SIAP, 4 Dec 2024.

OTHER INFORMATION

I have experience as a TA for classes with foreign students, and as vice president of TAs for large lectures(5 professors, 424 students, 13 TA, 1 Head TA, 1 vice-head TA), and can conduct mathematical discussions and recitation classes both Online and Offline.
Two papers are in preparation for submission.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: **Korea, Republic of, 23 Dec 2024**