

D.PHIL STUDENT · MATHEMATICS

University of Oxford, Christ Church

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Education ___

University of Oxford CENTRE FOR DOCTORAL TRAINING: MATHEMATICS OF RANDOM SYSTEMS Oxford, OX1 2JD, United Kingdom September 2021-

• Advisors: Profs. Gui Qiang G. Chen, Massimiliano Gubinelli, and James Glimm

New York University MASTER OF SCIENCE IN MATHEMATICS New York, NY, USA

September 2019-January 2021

• Advisor: Prof. James Glimm

• GPA: 3.943/4.0

• Written Comprehensive Examination: passed with 'A' in August 2019

Seoul National University

Seoul, South Korea March 2019 - August 2019

GRADUATE SCHOOL IN MATHEMATICS • GPA: 4.20/4.30

Seoul National University

Seoul, South Korea

March 2012 - February 2019

BACHELOR OF SCIENCE IN MATHEMATICS AND PHYSICS

• GPA: 3.77/4.30

Honors and Awards

Spring 2015 Merit-based Scholarship, Seoul National University

Fall 2014 Merit-based Scholarship, Seoul National University

Publications __

UPLOADED ON ARXIV

1. Min Chul Lee, James Glimm Axioms For Quantum Gauge Fields https://arxiv.org/abs/2112.08575

SUBMITTED TO A JOURNAL / CONFERENCE

1. Min Chul Lee, Akshunna S. Dogra A Rigorous Computation of the Chiral Anomaly in Gauge Theories Submitted to Physica Scripta (under reivew)

2. Akshunna S. Dogra, Jeffrey B. Lai, Min Chul Lee, Martin Peev Neural Network Differential Equation Solvers allow unsupervised error estimation and correction Submitted to ICLR 2023 (under review)

IN PREP WITH PROF. JAMES GLIMM

- 1. Verification of the Regularity of Entropy-Minimizing Solutions For the Navier-Stokes Equation To be announced soon
- 2. Construction of Nontrivial Quantum Gauge Theories
- 3. The Phase Transitions for Quantum Gauge Theories and Beyond

Teaching Experience _____

Michael- mas 2022-	Graduate Teaching Assistant, Balliol College	University of Oxford
Trinity 2022	Multivariable Calculus / Fourier Series and PDE / Dynamics , Substitute Tutor - Wadham College	University of Oxford
Hilary 2022	Applied Complex Analysis, Teaching Assistant	University of Oxford
Michael- mas 2021	Perturbation Methods, Teaching Assistant	University of Oxford
Fall 2020	Calculus 1, Recitation Leader (online)	New York University Seoul
Spring 2019	Calculus 1, Teaching Assistant	Naitonal University

Extracurricular Activities and Services _____

Trinity 2022	Oxford University Orchestra, Tuba Player	Oxford, Oxfordshire, United Kingdom
Hilary 2022	Oxford University Orchestra, Second Tuba Player - Rite of the Spring	Oxford, Oxfordshire, United Kingdom
Michael- mas 2021-	Oxford University Wind Orchestra, Tuba / Euphonium Player	Oxford, Oxfordshire, United Kingdom
2019 -2020	NYU All-University Concert Band, 1st Tuba Player	New York, NY, USA
2015 - 2017	Military Service, The Military Band of the Ministry of National Defense	Seoul, South Korea

References _____

Gui Qiang G. Chen

Professorial Fellow of Keble College

Director, Oxford Centre for Nonlinear Partial Differential Equations (OxPDE)

Director, EPSRC Centre for Doctoral Training in Partial Differential Equations

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Massimiliano Gubinelli

Wallis Professor of Mathematics

Mathematical Institute and Professorial Fellow at St. Anne's

University of Oxford, Oxford OX2 6GG, Oxfordshire, UK

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James Glimm

Distinguished Professor, Department of Applied Mathematics and Statistics SUNY at Stony Brook Stony Brook, NY, 11794-3600, USA

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