DONG-JUNE CHOI

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EDUCATION

Ph.D. Candidate, Mathematics 2021 - Present
The Ohio State University, OH, USA Advisor: Kenneth D. Koenig
B.S. Mathematics 2020
Pohang University of Science and Technology (POSTECH) Pohang, South Korea
• Leave of absence for military service (2017-2019)

RESEARCH INTERESTS

Several complex variables, Harmonic analysis, Nonsmooth domains

PUBLICATION

1. Choi, D.-J. and Koenig, K. D., Sharp L^p Regularity of the Szegö Projection on the Hartogs Triangle, *J. Geom. Anal.*, 36(11): Paper No. 374, 2026.

PRESENTATIONS

- *An L^2 identity for barred derivatives on piecewise Levi-flat domains*

  Invited talk, Special Session on The Interplay of Geometry and Analysis in Several Complex Variables at Joint Mathematics Meetings of American Mathematical Society (Chicago, IL) 15th Jan. 2027(scheduled)

- *Sharp L^p regularity of the Szegö projection on the Hartogs triangle*

  Contributed Talk, Harmonic, Complex and Functional Analysis Session at International Conference for the 80th Anniversary of the Korean Mathematical Society 24th Jun. 2026

  Invited talk, Harmonic analysis and several complex variables seminar at The Ohio State University 3rd Mar. 2026

  Invited talk, Special Session on New Developments in Several Complex Variables and CR Geometry at Joint Mathematics Meetings of American Mathematical Society (Washington, D.C.) 4th Jan. 2026

  Poster session, Recent Advances in Harmonic Analysis and PDEs (Celebrating Marius Mitrea's career) at Baylor University 21st May 2025

  Poster session, Midwest Several Complex Variables Conference (in Honor of Harold P. Boas and Emil J. Straube) at Texas A&M University 17th May 2025

- Other presentations

  Invited talk, *The Language of Data: Vectors and Matrices*, Guest lecture for linear algebra at Chung-Ang University 28th May 2026

  Invited talk, *Linear Algebra: Why, Where, and How*, Guest lecture for linear algebra at Chung-Ang University 11th Jun 2025

  Contributed Talk, *What is a Besicovitch Set?*, What is ...? Seminar at The Ohio State University 8th Jul 2021

HONORS, AWARDS, AND SCHOLARSHIPS

Graduate Student Travel Grants to 2026 JMM 2026
The American Mathematical Society

Special Graduate Assignment Spring 2025
The Ohio State University Math department
- Annual competition for research fellowship

Silver Medal - Korean National Collegiate Mathematical Competition 2018
Korean Mathematical Society

Excellent Student Teaching Assistant 2016
POSTECH Math department
- Award for academic excellence and teaching ability for one student per semester

The National Scholarship for Science and Engineering 2013 - 2017
Korea Student Aid Foundation
- Competitive national scholarship for first-year students

TEACHING

Graduate Teaching Associate Columbus, OH
The Ohio State University 2021-Present

- (Autumn 2025) Math 2177: Mathematical Topics for Engineers
- (Autumn 2024) Math 1156: Calculus for the Biological Sciences
- (Autumn 2023) Math 1156: Calculus for the Biological Sciences
- (Autumn 2022) Math 1172: Engineering Math A
- (Spring 2022) Math 1172: Engineering Math A

Excellent Student Teaching Assistant Pohang, South Korea
Pohang University of Science and Technology 2016

- (Spring 2016) Math 110: Calculus

OUTREACH

Cycle Program Mentor Columbus, OH
The Ohio State University Autumn 2026 – Spring 2027

- Mentored two undergraduate students (Sophia Cai and Prasanna Rajsheker) in the study of reproducing kernel Hilbert spaces.