

## KO WOON OHM

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### CAREER

- Assistant Teaching Professor, The University of California, San Diego, 2022 – present.
- Unit 18 Lecturer, The University of California, San Diego, 2016 – 2022.
- Lecturer, The University of Texas at Austin, 2011 – 2016.
- Postdoctoral Position, ETH, Zurich, 2014.
- Postdoctoral Fellowship, MSRI, Berkeley, CA, 2011.

### EDUCATION

- Ph.D., The University of Iowa, Iowa City, IA, 2010.
- M.Sc., Ewha Womans University, Seoul, South Korea, 2003.
- B.Sc., Ewha Womans University, Seoul, South Korea, 2001.

### PEDAGOGICAL ACTIVITIES

- Redesigning Math 2, Summer Bridge Pilot Program, UC San Diego, Summer 2023.
- Redesigning Precalculus Courses at UC San Diego, Summer 2024.
- Scaffolding Math Students using AI, Summer 2024.

### RESEARCH PAPERS

- K. Ohm and Zuo Lin, *Projection Theorems in the Presence of Expansions*, Preprint, arXiv:2408.11159
- K. Ohm, *Projection Theorems and Isometries of Hyperbolic Spaces*, Preprint, arXiv:2305.12302
- K. Um, *Elliptic equations with singular BMO coefficients in Reifenberg domains*, Journal of Differential Equations, 253(11):2993–3015, 2012.

### GRANTS AND AWARDS

- AI FAST Challenge Grant, *Acquiring Math Prerequisites Efficiently and Scalably with AI project*, 2025
- Graduate Summer Fellowship Award, University of Iowa, 2006, 2007, 2008.
- BK 21 Fellowship Award, Korean Government 2002.

## TALKS

- Covering Lemmas in Analysis and Geometry, Johns Hopkins University, MD, 2025
- Regularity for Elliptic Equations with Discontinuous Coefficients, UC Berkeley, CA, 2011
- Regularity for Elliptic Equations with Discontinuous BMO Coefficients in Reifenberg Flat Domains, MSRI, CA, 2011
- Elliptic Equations with BMO Coefficients with singularity in Reifenberg Flat Domains, Joint Mathematics Meeting, Washington D.C., 2009
- $W^{1,p}$  Regularity of Elliptic Equations in Reifenberg Flat Domains, Project Next/Young Mathematicians Network Poster Session, Joint Mathematics Meeting, Washington D.C., 2009
- As an Experienced Teaching Assistant from other culture, Teaching center, University of Iowa, IA, 2007

## TEACHING

- Calculus for Science and Engineering II, (Summer 2024), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, (Spring 2024), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, *Lead Instructor, Super lecture*, (Winter 2024), The University of California, San Diego.
- Introduction to Differential Equations, (Fall 2023), The University of California, San Diego.
- Calculus for Science and Engineering II, (Summer 2023), The University of California, San Diego.
- Vector Calculus, (Spring 2023), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, (Spring 2023), The University of California, San Diego.
- Introduction to College Mathematics, (Winter 2023), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, *Lead Instructor, Super lecture*, (Fall 2022), The University of California, San Diego.
- Calculus for Science and Engineering II, (Summer 2022), The University of California, San Diego.
- Introduction to Differential Equations, (Spring 2022), The University of California, San Diego.
- Vector Calculus, (Spring 2022), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, (Winter 2022), The University of California, San Diego.
- Introduction to Differential Equations, (Winter 2022), The University of California, San Diego.
- Precalculus, (Fall 2021), The University of California, San Diego.
- Calculus for Science and Engineering II, (Summer 2021), The University of California, San Diego.
- Vector Calculus, (Spring 2021), The University of California, San Diego.
- Calculus for Science and Engineering II, (Spring 2021), The University of California, San Diego.

- Precalculus, (Winter 2021), The University of California, San Diego.
- Calculus III, (Fall 2020), The University of California, San Diego.
- Introduction to Differential Equations, (Fall 2020), The University of California, San Diego.
- Introduction to Differential Equations, (Summer 2020), The University of California, San Diego.
- Calculus for Science and Engineering II, (Summer 2020), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, (Spring 2020), The University of California, San Diego.
- Vector Calculus, (Spring 2020), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, (Winter 2020), The University of California, San Diego.
- Introduction to Differential Equations, (Spring 2020), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, (Summer 2019), The University of California, San Diego.
- Introduction to College Mathematics, (Summer 2019), The University of California, San Diego.
- Introduction to Differential Equations, (Spring 2019), The University of California, San Diego.
- Calculus III, (Spring 2019), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, (Winter 2019), The University of California, San Diego.
- Calculus II, (Winter 2019), The University of California, San Diego.
- Calculus III, (Fall 2018), The University of California, San Diego.
- Introduction to College Mathematics, (Fall 2018), The University of California, San Diego.
- Calculus for Science and Engineering II, (Summer 2018), The University of California, San Diego.
- Vector Calculus, (Spring 2018), The University of California, San Diego.
- Linear Algebra, (Spring 2018), The University of California, San Diego.
- Calculus I, (Winter 2018), The University of California, San Diego.
- Precalculus, (Winter 2018), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, (Fall 2017), The University of California, San Diego.
- Introduction to College Mathematics, (Fall 2017), The University of California, San Diego.
- Calculus and Analytic Geometry for Science and Engineering, (Summer II 2017), The University of California, San Diego.
- Calculus for Science and Engineering II, (Summer I 2017), The University of California, San Diego.
- Calculus I, (Spring 2017), The University of California, San Diego.
- Calculus for Science and Engineering II, (Spring 2017), The University of California, San Diego.
- Calculus for Science and Engineering I, (Winter 2017), The University of California, San Diego.
- Introduction to Discrete Mathematics, (Winter 2017), The University of California, San Diego.

- Calculus for Science and Engineering II, (Fall 2016), The University of California, San Diego.
- Calculus for Science and Engineering I, (Fall 2016), The University of California, San Diego.
- Calculus II (Spring 2015), Instructor, The University of Texas at Austin.
- Integral Calculus (Fall 2014), Instructor, The University of Texas at Austin.
- M.Sc. Seminar on Regularity Theory of PDEs (Spring 2014), ETH, Zurich, Switzerland.
- Integral Calculus (Fall 2013), Instructor, The University of Texas at Austin.
- Linear Algebra and Applications (Summer 2013), The University of Texas at Austin.
- Integral Calculus (Spring 2013), The University of Texas at Austin.
- Integral Calculus (Fall 2012), The University of Texas at Austin.
- Advanced Calculus for Applications I (Spring 2012), The University of Texas at Austin.
- Differential Calculus (Spring 2012), The University of Texas at Austin.
- Advanced Calculus for Applications I (Fall 2011), The University of Texas at Austin.