



TING LIN, PH.D. CANDIDATE

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EDUCATION

- 2021 – NOW ◇ **Ph.D. Computational Mathematics**, School of Mathematical Sciences, Peking University.
- 2017 – 2021 ◇ **B.Sc. Computational Mathematics**, School of Mathematical Sciences, Peking University.
Member of **The Elite Program of Applied Mathematics and Statistics for Undergraduates**.
- 2018 – 2021 ◇ **B.Econ. Economics**, National School of Development, Peking University.

ACADEMIC EXPERIENCES

- Sept. 2023 – Dec. 2023 ◇ Visiting Student, National University of Singapore, Singapore.
- July. 2019 – Aug. 2019 ◇ Visiting Student, National University of Singapore, Singapore.

PUBLICATIONS

Journal Articles

- 1 Li, Q., **Lin, T.**, & Shen, Z. (2023). Deep learning via dynamical systems: An approximation perspective. *Journal of the European Mathematical Society*, to appear.

Preprints

- 1 Hu, J., Liang, Y., & **Lin, T.** (2023). *Finite element grad grad complexes and elasticity complexes on cuboid meshes*.
- 2 Li, Q., **Lin, T.**, & Shen, Z. (2022a). *Deep neural network approximation of invariant functions through dynamical systems*.
- 3 Li, Q., **Lin, T.**, & Shen, Z. (2022b). *On the universal approximation property of deep fully convolutional neural networks*.
- 4 Hu, J., **Lin, T.**, & Wu, Q. (2021). *A construction of C^r conforming finite element spaces in any dimension*.

TEACHING

- 2022F ◇ TA, Introduction to Modern Applied Mathematics.
- 2022S ◇ TA, Introduction to Applied Mathematics.
- 2021S ◇ TA, Mathematical Analysis III.

SELECTED AWARDS

- 2022 ◇ BICMR Mathematical Award for Graduate Students, Peking University.
- 2021-2023 ◇ Principal Scholarship, Peking University.
- 2021 ◇ Weiming Scholarship (Outstanding Undergraduate Researchers), Peking University.
- 2018 ◇ National Scholarship, Peking University.

TALKS

- Aug. 2023 ◇ Minisymposium talk, ICIAM 2023, Tokyo, Japan.
- Nov. 2022 ◇ Minisymposium talk on *New Developments in Non-standard Finite Elements*, CSIAM 2022, Virtual.
- Oct. 2022 ◇ Workshop talk, The 8th PKU Workshop on Numerical Methods for PDEs, Peking University.

SERVICES

Conference Organization

- Sept. 2022 ◇ The 8th Ph.D. Symposium on Computational Mathematics, Peking University.