Ling Zhou

https://sites.google.com/view/lingzhou-math/home

Math Tower 330,
The Ohio State University,
Columbus, Ohio
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RESEARCH INTEREST

Applied algebraic topology, topological data analysis, computational topology

EDUCATION

The Ohio State University, Columbus, Ohio USA — *Ph.D. in Mathematics*

Sep 2017 - Now, GPA 4.0/4.0

Hong Kong University of Science and Technology, Hong Kong — *M.Phil. in Mathematics*

Sep 2015 - July 2017, GPA 4.0/4.3

Sichuan University, Chengdu, Sichuan China — *B.S. in Mathematics and Applied Mathematics*

Sep 2010 - July 2015, GPA 3.86/4.0

PREPRINTS AND PUBLICATIONS

- Mémoli, F. & **Zhou, L.** Persistent Homotopy Groups of Metric Spaces. ArXiv, Dec 2019.
    - Talk in MBI Seminar Series at OSU, Sep 2020.
- Qin, T., **Zhou, L.**, & Xiu, D. (2020). Reducing Parameter Space for Neural Network Training. *Theoretical and Applied Mechanics Letters*, 10(3), 170-181.
- Huang, J. S., & **Zhou, L.** (2019). Generalized Fourier Transforms Associated with the Oscillator Representation. *Journal of Fourier Analysis and Applications*, 25(5), 2782-2800.

PAPERS IN PREPARATION

- Mémoli, F. & **Zhou, L.** Filtered Chain Complexes (in preparation).
- Contessoto, M. A., Mémoli, F., Stefanou, A. & **Zhou, L.** Persistent Cup Length (in preparation).
- Mémoli, F. & **Zhou, L.** Tight Span of 2-Sphere with l-Infinity Metric (in preparation).

OTHER RESEARCH PROJECTS

Leung, W. H., Martinez, F., Sun J. & **Zhou, L.** Python project to recognize Van Gogh's paintings. *Data Science Boot Camp by The Erdős Institute*, May 2020.

AWARDS

Special Graduate Assignment, Spring 2020 (OSU)

Tibor Radó Graduate Fellowship, 2017-18 (OSU)

The 12th Epsilon Fund Award to Top Students, 2016-17 (HKUST)

Din-Yu Hsieh Teaching Award, 2016-17 (HKUST)

Scholarship of the Pilot Project for Fostering Top-Notch Students in Basic Science, 2013-14

First Class Comprehensive Scholarship, 2010-11, 2011-12 (Sichuan University, top 2%)

National Endeavor Fellowship, 2012-13, 2013-14 (top 5%)

National Scholarship, 2010-11, 2011-12 (top 2%)

SKILLS

Python, Mathematica, C