Pengkun Huang

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Research interests

I hold a broad interest in everything happening in Algebraic Topology. Right now, I focus on homotopy theory. I also find Algebraic K-theory is very interesting.

Education

2021 – Present	**University of Copenhagen** – Copenhagen, Denmark Msc in mathematics (full scholarship in the second year) Thesis Supervisor: Dr. Robert Burklund
2020 – 2021	**University of Reading** – Reading , UK Bsc in mathematics (with Department Achievement Prize and Part 3 Project Prize) Thesis supervisor: Dr. John Evans *GPA: 93.04/100.*
2013 – 2017	**Nanjing University of Information Science and Technology** – Nanjing, China Bsc in mathematics (Joint double degree program with University of Reading.) *GPA: 92.54/100.*

Papers

2022	**An Introduction to Topological K-theory towards Hopf Invariant One Problem** Master Project
2021	**An Introduction to Homology Theory Towards Spectral Sequence** Bachelor Thesis
2020	**A criterion for transitivity of area preserving partially hyperbolic endomorphism on torus** Undergraduate Research Project

Activities

2020 09 – 12	**Frontier Courses for Postgraduates (Guangxi Center for Mathematical Research)** Contents: Topics in Differential Geometry, An introduction to Representation Theory

2020 08   **Summer school in differential geometry (Peking University)**

Contents: Second order elliptic partial differential equations, Complex Geometry, Riemmanian Geometry