

# 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

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

## Papers

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

## Activities

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|--------------|---|
| 2020 09 – 12 | <b>Frontier Courses for Postgraduates (Guangxi Center for Mathematical Research)</b><br>Contents: Topics in Differential Geometry, An introduction to Representation Theory |
|--------------|---|

2020 08

**Summer school in differential geometry (Peking Univer**

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