

Summer Collaborative  
Duke Undergraduate  
Research in Mathematics

**May 18-July 10, 2020**

# DOMath

**Neural network dimension reduction of data with topological constraint**, led by Professor Xiuyuan Cheng

**Statistics on class groups and representation theory**, led by Professors Samit Dasgupta and Jiuya Wang

**PDE modeling of collective motion**, led by Professors Alexander Kiselev and Siming He

**Using Probability to understand cancer**, led by Professor Rick Durrett

**Materials science problems: numerical methods and techniques**, led by Professor Saulo Orizaga

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