**Undergraduate Research Project**

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| **Project Name:** | Homology of combinatorial simplicial complexes | **Number of Positions:** | 2 |
| **Supervisor:** | Jeremy Miller | | |
| **Supervisor e-mail:** | [jeremykmiller@purdue.edu](mailto:jeremykmiller@purdue.edu) | | |
| **Project Description:** | There are various combinatorial simplicial complexes that are relevant for homological stability and related questions. The goal is to study these complexes and at a minimum compute small examples. | | |
| **Final Deliverables:** | Ideally, we will write a research paper. If we do not produce enough mathematics to do this, then we will see what makes sense to do with the project. | | |
| **Weekly Working Hours** | Negotiable | | |
| **For Credits/Voluntary** | Either | | |
| **Desired Qualifications** | Required: Math 572  Preferred: | | |

**If you are interested in participating in this research project, please send an e-mail to the supervisor e-mail listed above together with a resume, a list of what courses you’ve taken or a copy of your transcript, and a personal statement explaining why you are interested in this project.**