

# Project Proposal: Convex Optimization (MATH 463/563)

Alexander Kakabadze  
Edmand Yu  
Lilian Yuan  
Rahul Padmanabhan

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## 1 Team Members

Our team consists of the following members (in alphabetical order):

- Alexander Kakabadze (alexander.kakabadze@mail.mcgill.ca)
- Edmand Yu (edmand.yu@mail.mcgill.ca)
- Lilian Yuan (lilian.yuan@mail.mcgill.ca)
- Rahul Padmanabhan (rahul.padmanabhan@mail.mcgill.ca)

## 2 Problem Distribution

We have distributed the four problems among our team as follows:

1. Primal Douglas-Rachford Splitting - Lilian Yuan
2. Primal-Dual Douglas-Rachford Splitting - Alexander Kakabadze
3. ADMM (Dual Douglas-Rachford) - Edmand Yu
4. Chambolle-Pock Method - Rahul Padmanabhan

We will collaborate on the implementation of the algorithms and the final report.