

Current research, future plans, and contributions to Imperial College

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I study how the **structure of financial markets** affects society's ability to deal with major challenges:

1. How should we **design bond markets** to support fiscal sustainability and facilitate investment?
 - Large benefits from new auction protocols designed with risk and uncertainty in mind.
2. How should we **regulate large financial institutions** to foster financial stability?
 - New approaches to regulation and public interventions which counteract market power.
3. How can we **estimate investor preferences** and anticipate responses to policy changes?
 - Aid in assess costs and benefits of large public investments (such as green transitions).

Future plans

1. **Auction design.** Experimentally evaluate new designs in collaboration with a central bank.
2. **Public finance.** Should countries issue specific “green bonds” or earmark a common budget?
3. **Preference estimation.** Develop new methods that can account for complex market interactions.

1. Bridge with **climate finance at Grantham institute** to inform bond market design.
2. **Partnerships with regulators and industry** to enhance research on regulation.
3. Methodological collaboration with **quantitative finance** to estimate demand from large-scale datasets.

Thank you!