

Current research, future plans, and contributions to Imperial College

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Research overview

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

1. How should we design public debt markets to support **fiscal sustainability**?
2. How should we **regulate** large financial institutions?
3. How can we **measure** how investors will respond to policy, such as large-scale green investments.

Specific examples from my current research

1. I design new models of public bond auctions that **bridge auction theory and finance**.
 - Large benefits to designing auction protocols with risk and uncertainty in mind.
2. I propose new approaches to the regulation of large financial institutions for **financial stability**.
 - Example: managing market access by pension funds to avoid events like the 2023 “Gilt crisis.”
3. I study tools to **estimate investors willingness to pay** for assets from observational data.
 - Critical input to assess the cost of large-scale public investments.

Ongoing and future research in these areas

1. **Auction design:** conduct experiments with a large emerging-market central bank.
2. **Public finance:** Should countries issue specific “green bonds”?
3. **Demand 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 regulatory and industry** to enhance research on regulation.
3. **Methodological collaboration** to estimate demand from large-scale datasets.

Thank you for the opportunity!