Department of Economics Summer Research Assistant Opportunities

**Faculty Sponsor:** Daniel T. Chen, dtchen@princeton.edu

**Project Title/Research Areas:** Theory Research on Platforms and Market Structure

**Location:** On-campus/in-person only

**Student Roles and Responsibilities:** RA may discuss research questions, work on modeling, read papers and offer comments, code up numerical solutions, and conduct literature review. Student RA would get a close look at frontier research on theory topics on platforms and market structure.

**Additional Considerations:** Student must have excellent math and writing skills. Start and end dates are flexible, but the student should be available on average 20 hours/week.

**Participation Dates:** Flexible, but between June 2nd and August 4th.

**Hourly Pay:** $18/hour

**Application Deadline:** March 13, 2024

---

**Faculty Sponsor:** Batchimeg Sambalaibat, bs33@princeton.edu

**Project Title/Research Areas:** Market Microstructure, Networks, and Search Frictions applied to OTC traded securities (e.g., government bonds, corporate bonds, derivatives)

**Location:** Either remote or on-campus/in-person, *Please note students working remotely must be residing in the United States to be eligible.*

**Student Roles and Responsibilities:** Student must have data collection and analysis skills (e.g. Python knowledge would be useful, but not strictly required.)

**Additional Considerations:** Start and end dates are flexible, but the student should be available on average 20 hours/week.

**Participation Dates:** Flexible

**Hourly Pay:** $18/hour

**Application Deadline:** March 13, 2024
Faculty Sponsor: Xiaosheng Mu, xmu@princeton.edu

Project Title/Research Areas: Mechanism design without transfers for the application of emission reduction

Location: Remote only. *Please note students working remotely must be residing in the United States to be eligible.

Student Roles and Responsibilities: Student must have a strong math background and some coding experience

Additional Considerations: Start and end dates are flexible, but the student should be available on average 5 – 10 hours/week

Participation Dates: Flexible

Hourly Pay: $18/hour

Application Deadline: March 13, 2024

Faculty Sponsor: W. Bentley MacLeod, wbmacleod@wbmacleod.net

Project Title/Research Areas: Q-learning Algorithms in Julia

Location: Either remote or on-campus/in-person, *Please note students working remotely must be residing in the United States to be eligible.

Student Roles and Responsibilities: The project entails coding Q-learning algorithms in Julia. Project 1 would be coding up relational contracts. I also hope to work on Julia code to estimate the bandit model in Currie-Macleod, “Understanding Doctor Decision Making: The Case of Depression Treatment”, Econometrica, May 2020. The RA would be expected to review the bandit literature and we would work on ways to estimate that class of models from observational data.

Additional Considerations: The student must have experience of working in Julia. Start and end dates are flexible, but the student should be available on average 10 - 20 hours/week.

Participation Dates: Flexible

Hourly Pay: $18/hour

Application Deadline: March 13, 2024