

**Title: Misspecified Large Stochastic Anonymous Games**

**Speaker: Prof. Aniruddha Ghosh, California Polytechnic State University**

**Area: Economics**

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**Abstract:**

We propose a framework for analyzing strategic interactions with misspecified models when the player space is large and anonymous. Many economic environments involve large populations of agents whose strategically interdependent decisions generate aggregate feedback, while agents interpret this feedback through potentially incorrect models. Existing frameworks for large anonymous games capture the strategic role of aggregate behavior, while Berk–Nash equilibrium captures steady-state behavior under misspecified learning. We combine these two perspectives by motivating a new solution concept: Cournot–Berk–Nash equilibrium. In this framework, agents optimize relative to potentially incorrect models of the distribution of consequences generated by aggregate behavior, while beliefs are disciplined by aggregate feedback. We establish existence and purification results and illustrate the utility of the framework in strategic environments where aggregate outcomes provide feedback that agents interpret through misspecified models.

**Speaker Profile:**



Aniruddha Ghosh, Assistant Professor at the Department of Economics at the Orfalea College of Business at Cal Poly. He received Ph.D. in Economics from the Johns Hopkins University.

His research interests are in microeconomic theory.

**Webpage Link:** <https://aniecon.github.io/>