O'Connor Chapters 7-10

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Day Plan

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Big Picture

Some Questions

Big Picture

First, some questions internal to the model.

- 1. Who are the players?
- 2. What are the payoffs?
- 3. What is the generation rule?

Some Questions

Then, some questions about how the model relates to reality.

- 1. Do people play those games particularly often?
- 2. Are the payouts really correct?
- 3. Are there other games we should also have them play?

Some Questions

Finally, some very big picture questions that it's easy to lose track of while going page-by-page.

- 1. What is impossible to express in the model, and could it be explanatorily important?
- 2. Does the model get the details right?
- 3. Could the model be used to 'explain' things that we don't actually see in the world?

Complementarity and Trading

One thing I was stressing in the earlier lectures is that the 'players', 'payoff' and 'often' questions seem easier to answer for the trading games than the MEFO games.

- Are the MEFO players 12 year olds choosing life skills to acquire?
 Or adults training youngsters? Or older people acquiring new skills?
- How important is the MEFO question outside of nuclear households, which are a very recent invention.

Complementarity and Trading

On the other hand, these questions seem easy to answer for trading.

• Situations where a resource must be divided are really ubiquitous. No need to look hard for them.

Inexpressibility

Imagine someone who says that inequality within each gender explains inequality between genders. There is more inequality among men than among women, and maybe this partially explains inequality between genders.

- Could O'Connor's models show that isn't right?
- Arguably no, because there isn't a variable for this.
- But arguably yes, because they could show such an explanation is unnecessary.

Details

If you have an explanation for some phenomena, it would be nice if it explained why the phenomena was more pronounced in some places than others

- I don't really think O'Connor's story does that.
- On the other hand, this feels like a 'nice to have' feature, not a 'need to have' feature.

Details

But there is one thing I do worry about here.

- O'Connor's models give us gendered inequality in general.
- Do they explain why it always goes the same way, across thousands of years and thousands of miles?
- Maybe it could be easily supplemented to do this.

One of the favorite tools that philosophers have.

 This explanation can't be right, because if it were right, it would 'explain' a phenomena that doesn't actually happen.

Overgeneration

Here's one thing you might push.

- Say a 'summer' person is a person born between the spring and fall equinoxes, and a 'winter' person is a person born between the fall and spring equinoxes.
- We could have summer and winter be the types that do all the work in these models.
- So the model 'explains' summer/winter discrimination.
- But obviously we don't see that in the world.

Overgeneration

One reason why - summer/winter is not visible.

- Really big question and one I don't know the answer to.
- Is the visibility of gender differences something that can be used to explain discrimination, or something that we should hope to explain as part of the explanation.

Day Plan

Big Picture

Network Models

Bounded Rationality

Changing Values

Networks and Ecosystems

- So far we've used models where in each round, everyone interacts with everyone. (Or with a randomly selected portion of everyone; it won't matter for modeling purposes.)
- In a network model, people have 'neighbors'.
- In general we do not assume these are spatially arranged.
- My neighbors might include my literal neighbors, but also my workmates, the other parents at my kid's school, people I interact with socially (including online), and so on.

Networks

Interactions can have two effects.

- 1. They determine our payout in a given round.
- 2. They determine what we learn from for future rounds.

Network Models

This is a very promising way, I think, for modeling gender inequality.

- One thing about gender is that although there is a lot of discrimination that persists to this day, it is very unevenly distributed.
- In some fields, there is *relatively* little.
- In other fields, there is a lot.
- Using network models can give us the chance to model that.

Network Effects

In some of these models, you get some really strange effects.

- Sometimes there are real benefits to cutting off certain connections.
- By sticking in a smaller network for longer, sometimes you don't get sucked into the bad practices of the group.
- Of course, sometimes you build a bubble that is bad in lots of ways.
- It's hard to know in advance which will swamp.

Day Plan

Bounded Rationality

Two Kinds of Models

- 1. Everyone is perfectly rational, and this is common knowledge.
- 2. Everyone has a hard-wired strategy, and they will employ it even when it will obviously get them killed.

Bounded Rationality

Obviously there are situations where we'd like something in between those two situations.

Bounded Rationality 000000

1. No ability to anticipate; the future will be just like the past.

Two Forms

- 1. No ability to anticipate; the future will be just like the past.
- 2. Limited memory.

A Third Form

You can easily mix these two.

- Maybe some agents will assume the future will look like the very recent past.
- Maybe some agents will have longer or shorter memories.

Extending the Model

The point is not that these are correct models of reality. That's not the aim.

- But they are different to both the hyper-rational and the hyper-mechanical models.
- And they do this without sending the computational complexity to infinity, or leaving too few constraints.

Day Plan

Changing Values

Bicchieri

- I wanted to end by noting some relevant work by Penn philosoper(/economist/cognitive scientist) Christina Bicchieri.
- I had a note to mention how this work relates to Bicchieri's, then I got to chapter 9 and saw that O'Connor already made that connection. So I won't belabor the point.

Norms are Equilibria

- So here's one way a practice can become stable in a community.
- It's an equilibrium of a game that they are playing, so no one has an incentive to deviate.
- A very popular theory, one I think has got to be part of the true story, is that social norms typically arise in this way.

Norms are Special Equilibria

Bicchieri's point is that norms, as opposed to other conventions for dealing with regularities, do more than steer us to an equilibrium point.

They change the payoffs.

1. Everyone does X because it's valuable to do what everyone else does. Opening hours are like this.

Changing Values

- 1. Everyone does X because it's valuable to do what everyone else does. Opening hours are like this.
- 2. Everyone does X because it's valuable to do what everyone else does and you'll get punished for doing otherwise.

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Arguably gender is like this.

Policing Gender Norms

- Part of the story about gender is that not only do people signal it fairly clearly (at least most people most of the time).
- But there are strong social sanctions sometimes including violence - against people who do not signal in this way.
- It's very hard to model this using either kinds of games that O'Connor describes.

General Pattern

Here is a hypothesis about what is going on here.

- 1. Gender norms developed for the kind of game-theoretic reasons that O'Connor describes.
- 2. But over time, people internalised those norms, came to see them as the way things should be done, and developed a disposition to punish non-conformers.

These stories are not incompatible; one is a story about generation, the other about persistence.

Why Two Stories

- We need to explain relative stability of norms over time.
- O'Connor complains that rational choice models can't deliver this explanation.
- But going all the way to mechanical biological models seems like overkill.
- A model of people internalising the norms, and thereby changing the payout structure, seems more promising.

Where to Go Next

- And thinking about changing payouts might be a more effective way of moving to new solutions.
- At least, it's a different way than trying to push people to different equilibria of the same game.