To achieve the goal of **preregistration in practice**, we need to support multiple perceived **purposes** of this tool, with considerations for different **user roles** and adoption barriers. And what about HCI?

Preregistration has been proposed to be a tool for addressing the replication crisis, mainly used for experimental studies. However, it is unclear how well preregistration is working for its users.

To investigate preregistration in practice, we interviewed 14 (7F, 7M) users of preregistration.

We found two main purposes that users thought preregistration was for.

1. **Delimiting flexibility**
   
   "So I feel like people are confusing disclosure, which often you want more the better, but I think the preregistration should be reserved for things that it's really important to know ahead of time... power analysis is not relevant for preregistration." [P10]

2. **Increasing transparency**
   
   "I think [statistical] power is one of the biggest mistakes that are made in psychology, so not asking people to actually prove that they have the power of the test is a mistake." [P6]

We make design recommendations:

**Design for multiple purposes**

If preregistration templates reflect what the user considers to be the primary purpose, we can make them dynamic: showing only the questions that conform to the user's choice of purpose, be it delimiting flexibility or increasing transparency.

**Design for different user roles**

For authors who check preregistration and the manuscript “point-by-point”, they may benefit from a tool that integrates experimental design with writing. For reviewers/editors who query the preregistrations, an interactive tooltip that calls out preregistered protocol in a manuscript may be helpful.

**Design for different disciplines**

Some users who do non-experimental work find preregistration alienating: for others, templates or examples do not exist. Community-based approaches such as workshops may help develop templates and norms for non-experimental research.

Designing for Preregistration: A User-Centered Perspective
Xiaoying Pu¹, Licheng Zhu², Matthew Kay², Frederick Conrad³
¹Computer Science and Engineering, ²School of Information, ³Institute for Social Research at the University of Michigan, Ann Arbor

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* In addition, different user roles (authors or reviewers) interact with preregistrations differently: barriers to adoption exist along discipline lines.