

# Automatically Verifying Compiler Optimizations

CSE 507  
November 20, 2014

# ZACH



**DANGER**

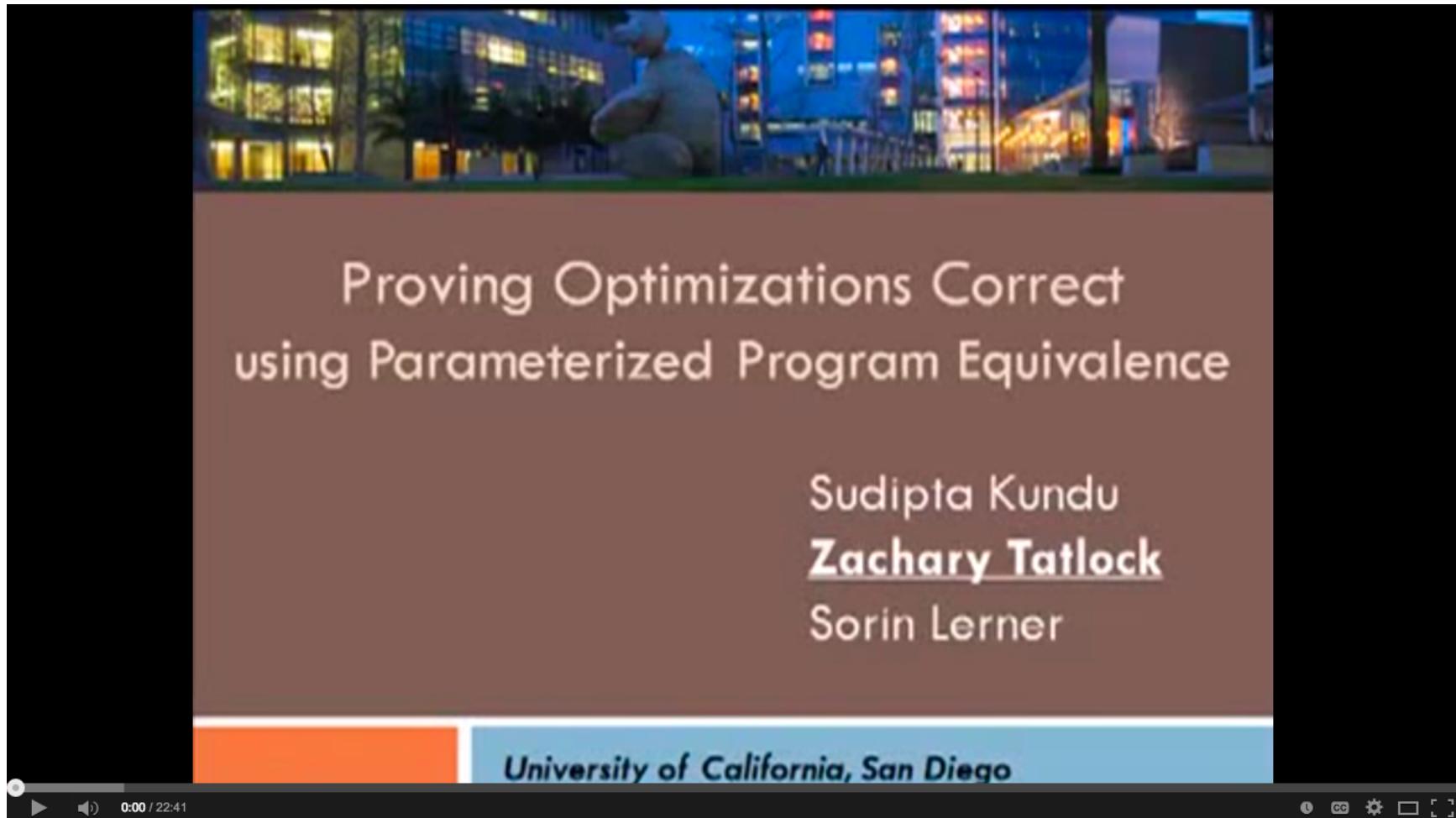
**TIME TRAVEL  
AHEAD!  
ASK QUESTIONS!**

**viaje en el tiempo por delante  
hacer preguntas**

**LOS VIOLADORES SERAN PROCESADOS**

# Movie + Discussion Time

<https://www.youtube.com/watch?v=-ReOCUrHQtM>



# Code

<https://github.com/ztatlock/pec>

```
let main () =
    parse_args ();
    if
        "input"
        |> Flags.get
        |> Rewrite.parse
        |> ff Rewrite.log_cfgs
        |> Synch.infer
        |> ff Rewrite.log_paths
        |> SimRel.infer
        |> ff Rewrite.log_simrel
        |> ff Rewrite.write_dot
        |> Check.check
    then
        print "VALID\n"
    else
        print "INVALID\n"
```