

Daniel Schaal

South Dakota State University

[daniel.schaal@sdstate.edu](mailto:daniel.schaal@sdstate.edu)

Research Seminar - Ramsey Theory

Every Fall - 5 to 10 students

By invitation or permission

Meet twice a week for 1 credit

Prepare students for research - teach "proof techniques"

# What makes a good problem?

Limited background required

Can be investigated with a computer

Partial results likely

Several levels of partial results

Worthy of publication in mathematics journal

Likely to be solvable with familiar techniques