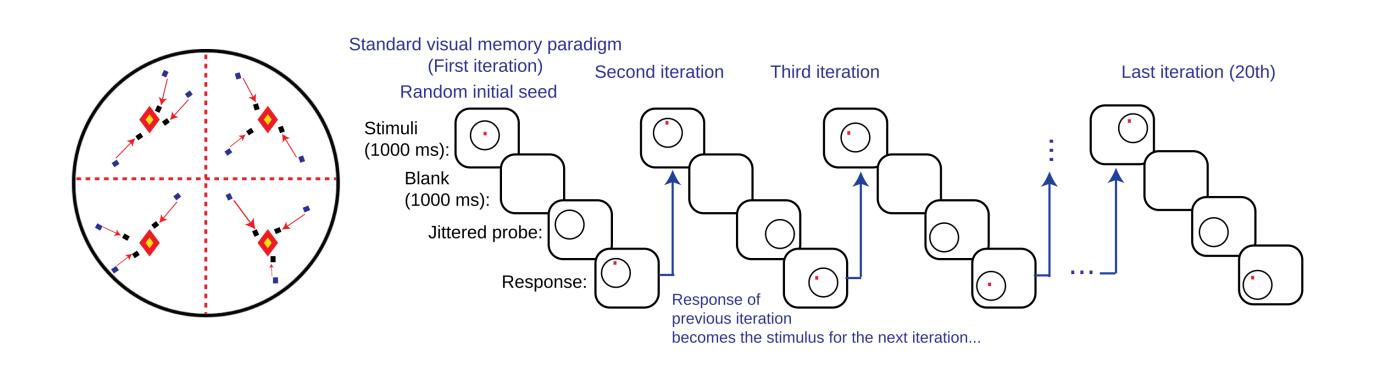
Orthogonal multi-view three-dimensional object representations in memory revealed by serial reproduction

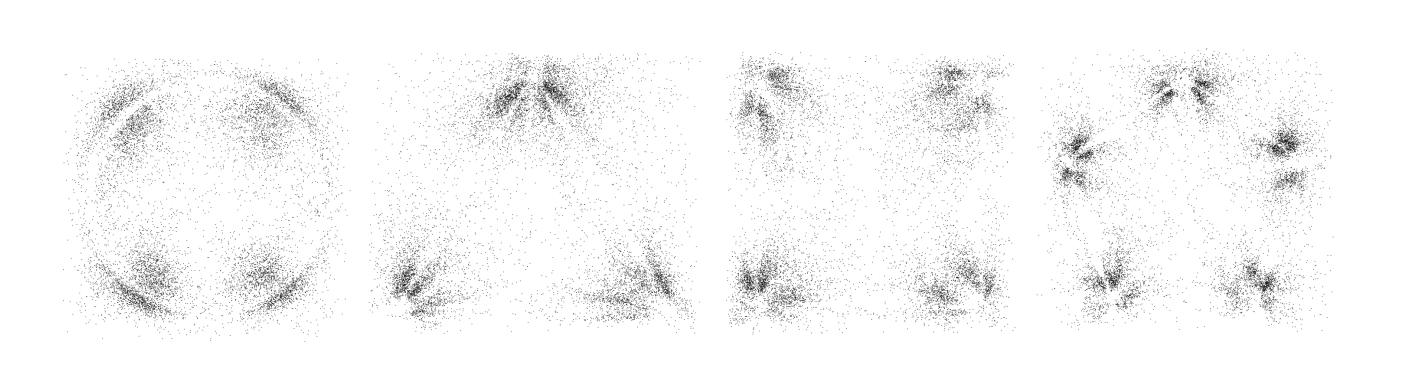
Thomas A. Langlois^{1,2}, Nori Jacoby³, Jordan Suchow⁴, Thomas L. Griffiths² ¹University of California, Berkeley, ²Princeton University, ³Max-Planck-Institute for Empirical Aesthetics, ⁴Stevens Institute of Technology

BACKGROUND

Prior work ultilized crowdsourced transmission chain experiments to study spatial memory biases



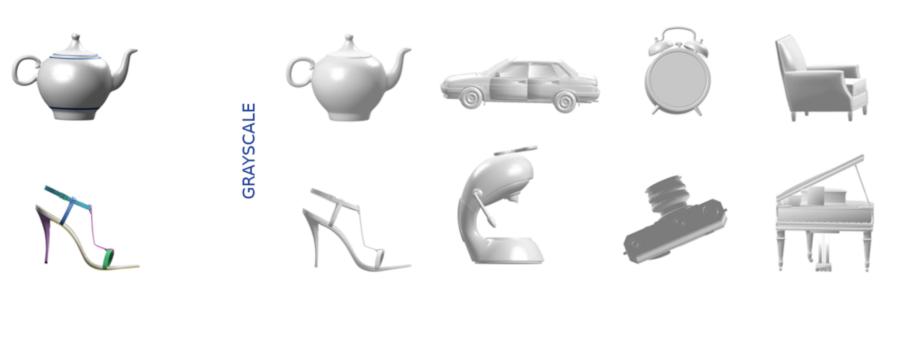
This non-parametric technique proved effective at revealing nuanced and structured patterns



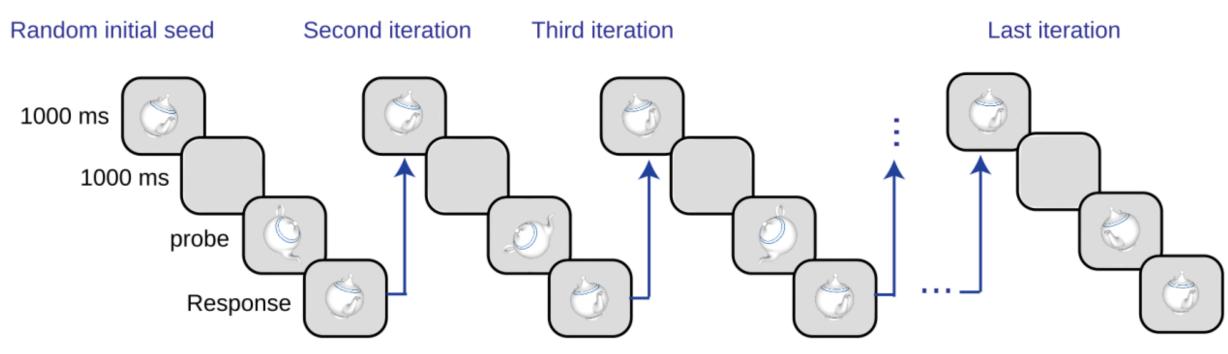
QUESTION: Can the same tool be used to uncover structured biases in 3D orientation memory?

EXPERIMENTAL DESIGN

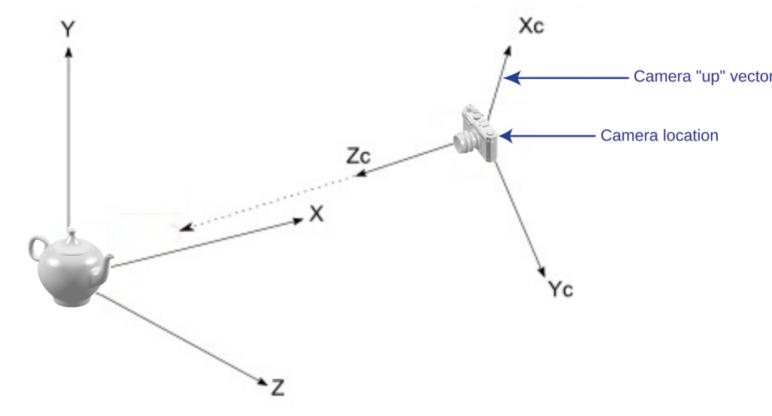
3D Objects used in the memory experiments

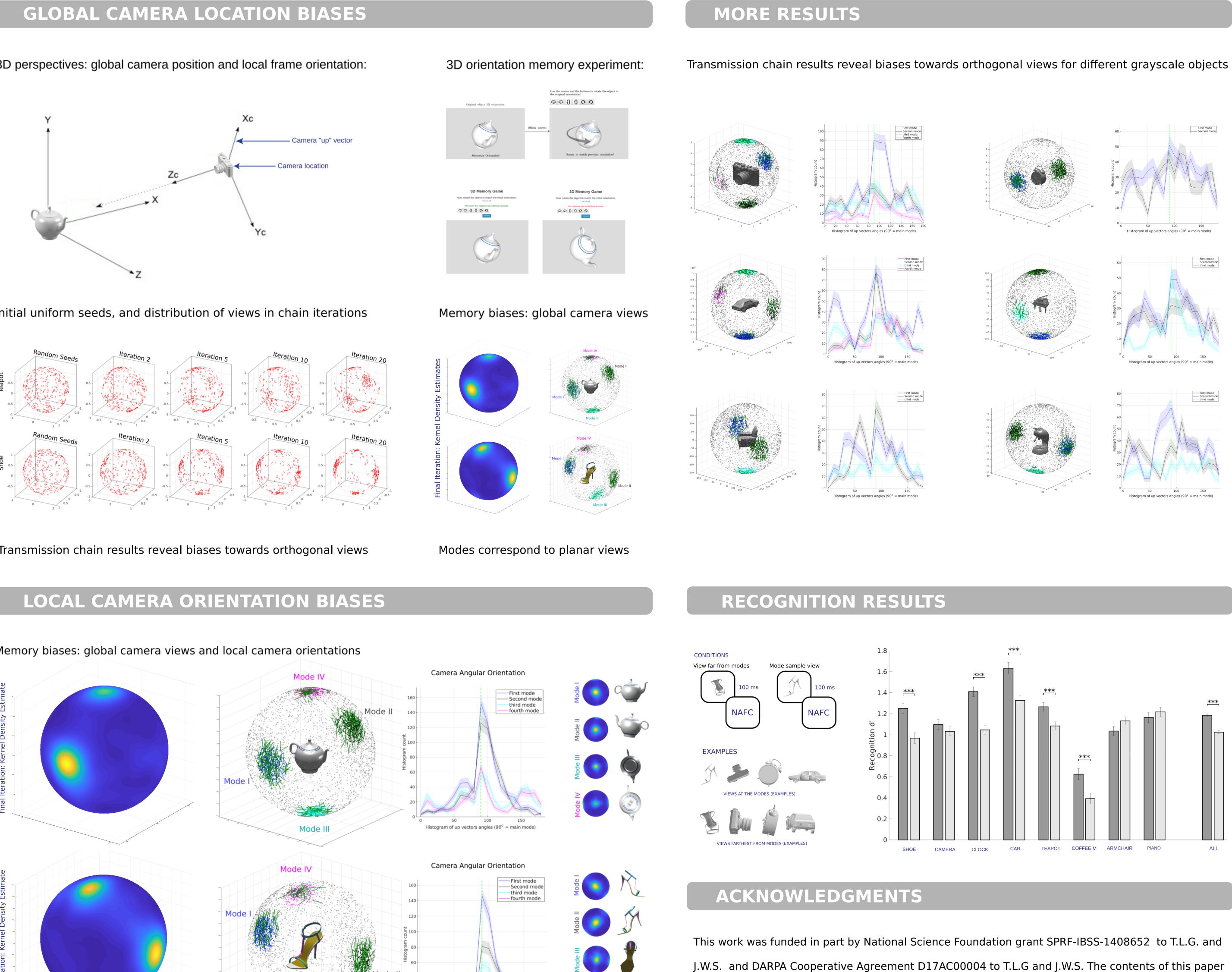


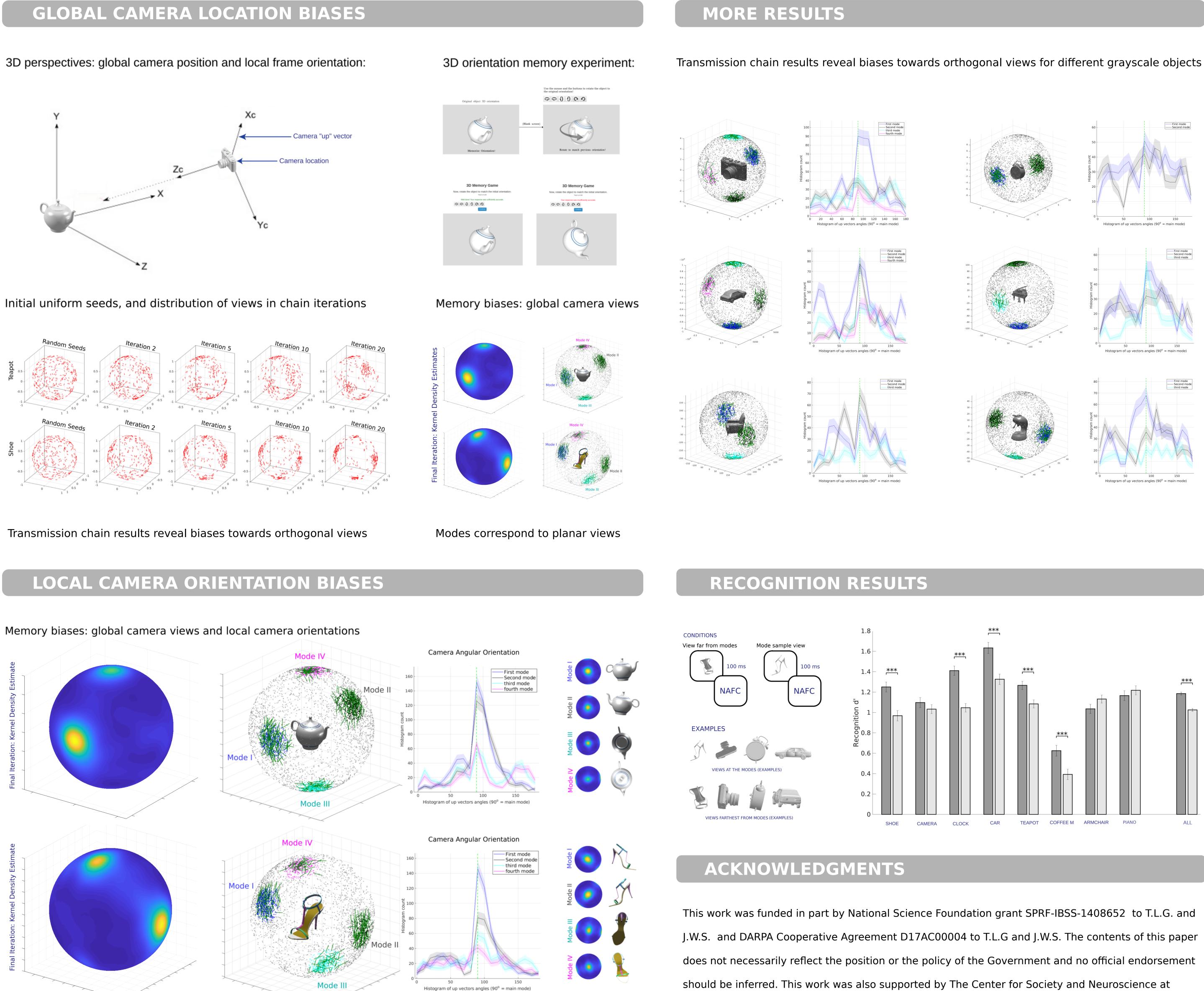
Transmission memory chain



Transmission chain: a participant's remembered 3D orientation becomes the next stimulus







Transmission chain results also reveal an interaction: viewpoint-specific biases of the local camera orientations

platform.

Columbia University for author N.J. We would like to thank Tom Morgan for his help with the Dallinger