

* Electronic Address: matanharel18@gmail.com

¹ University of Geneva

† Electronic Address: mossel@wharton.upenn.edu

² University of Pennsylvania

‡ Electronic Address: philipp.strack@gmail.com

³ University of California, Berkeley

§ Electronic Address: omertamuz@gmail.com

⁴ California Institute of Technology

On the speed of social learning

Matan Harel^{1*}, Elchanan Mossel^{2†}, Philipp Strack^{3‡}, Omer Tamuz^{4§}

We consider two Bayesian agents who learn from exogenously provided private signals, as well as the actions of the other. Our main finding is that increased interaction between the agents can lower the speed of learning: when both agents observe each other, learning is significantly slower than it is when one only observes the other. This slowdown is driven by a process in which a consensus on the wrong action causes the agents to discount new contrary evidence.