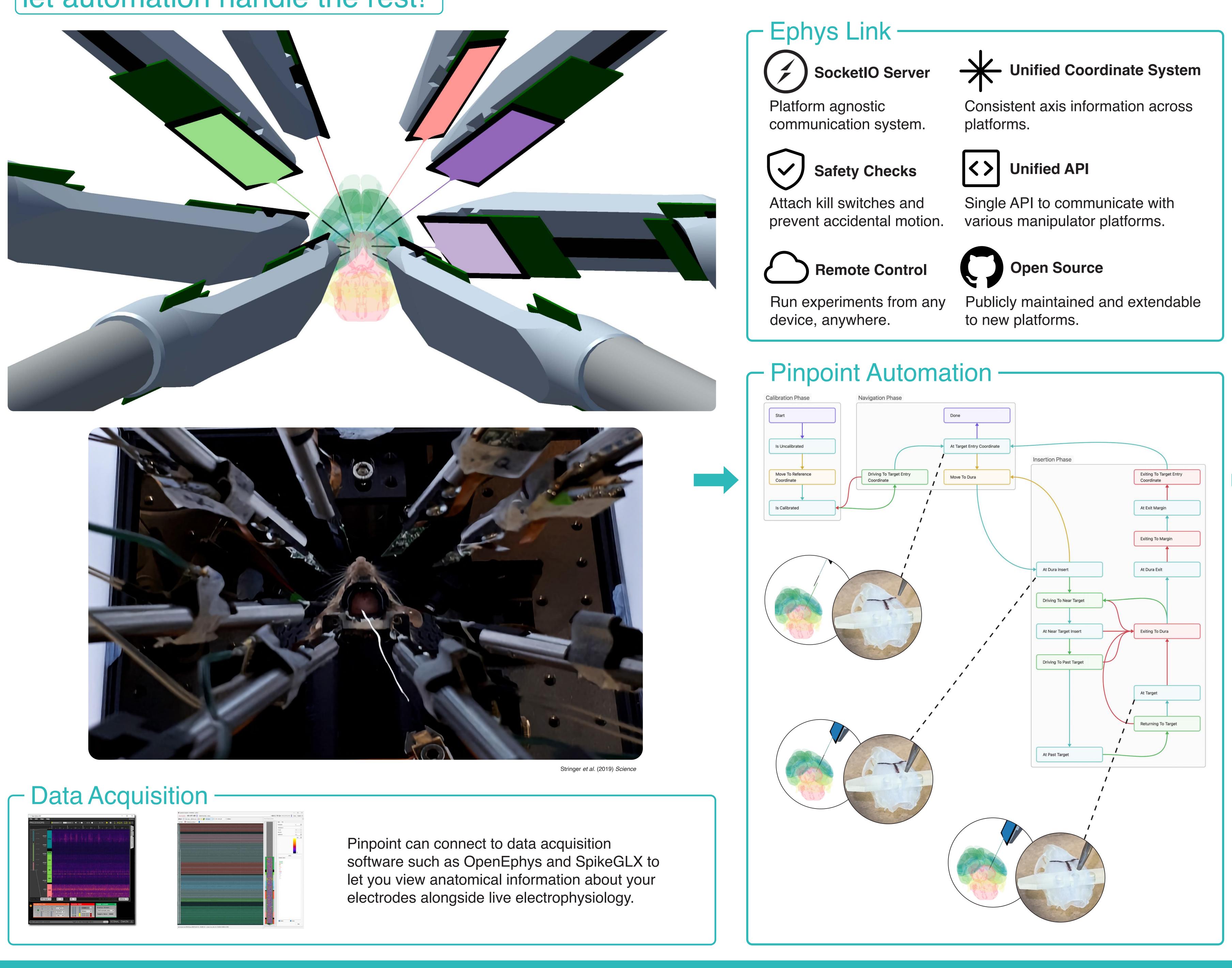
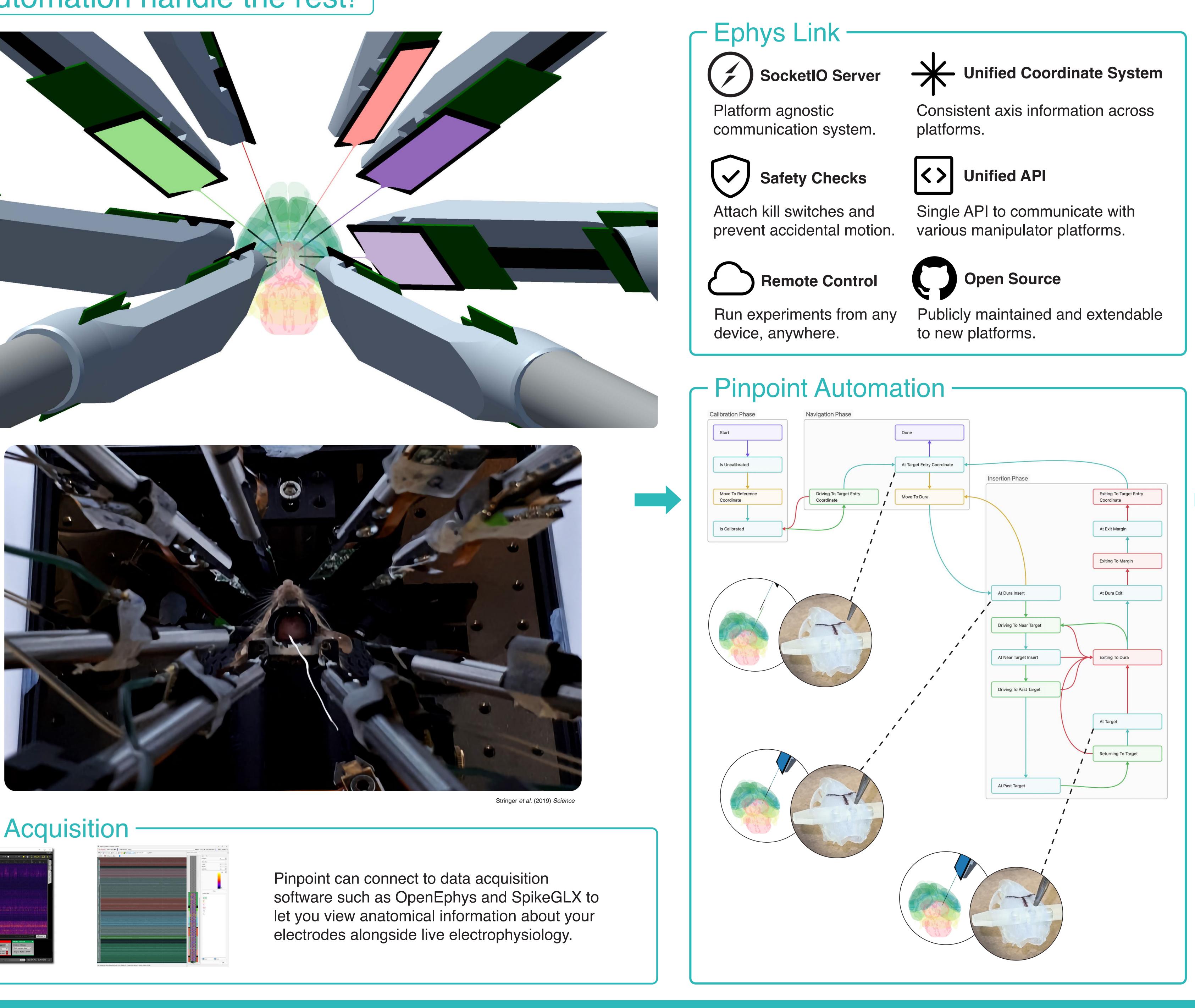
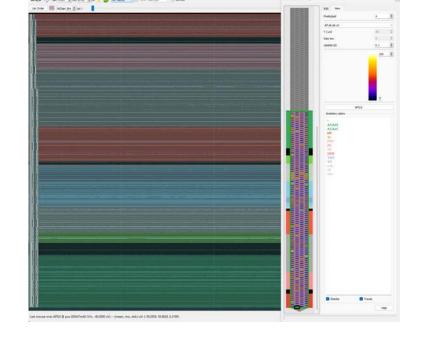
Automating Multi-probe Electrophysiology Insertions for Simultaneous Multi-region Recordings



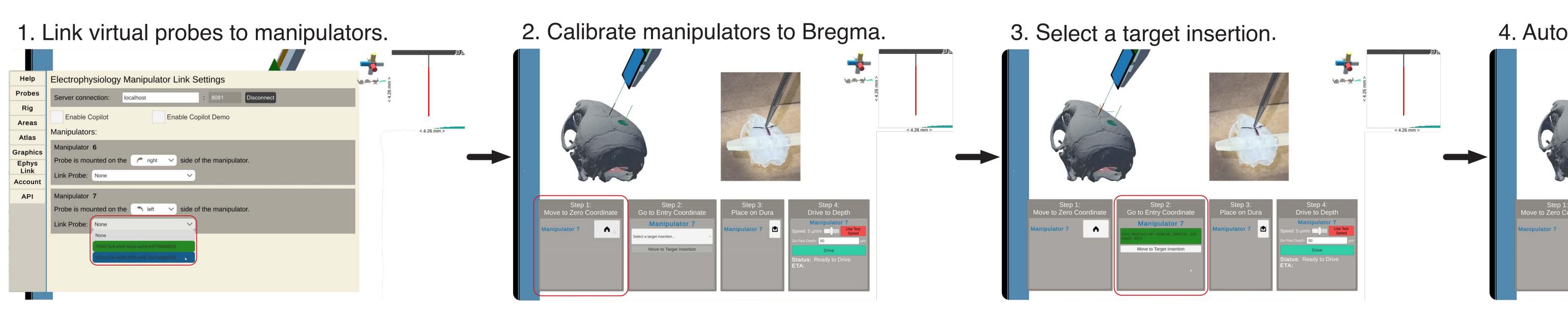








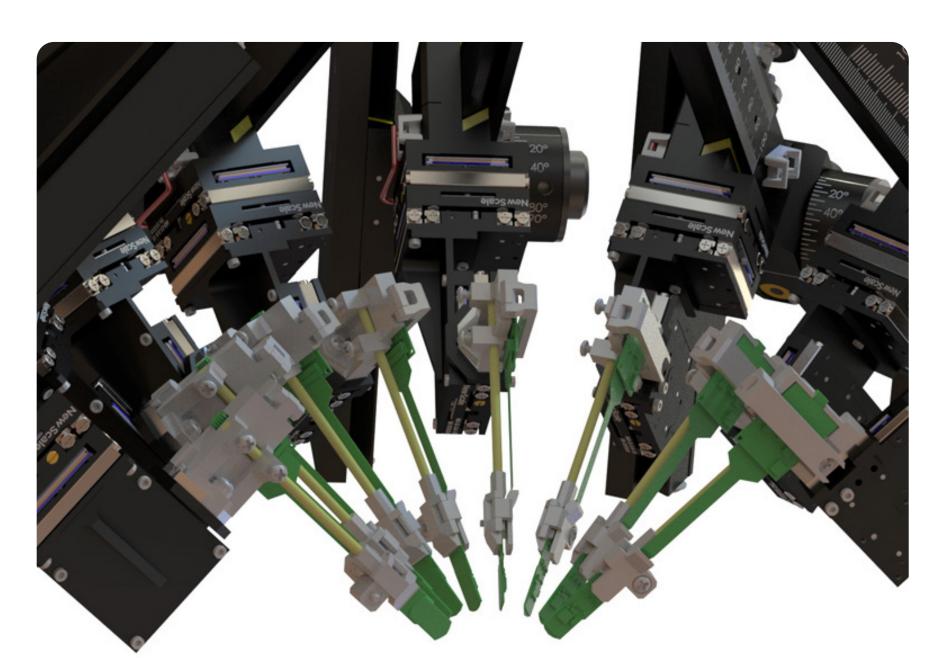
– Run an Automated Insertion



Kenneth J. Yang^{*1,3}, Daniel Birman², the International Brain Laboratory, Nicholas A. Steinmetz^{1,}

*Find us online at virtualbrainlab.org, email: kjy5@uw.edu ¹University of Washington, Seattle, WA ²Allen Institute ³International Brain Laboratory





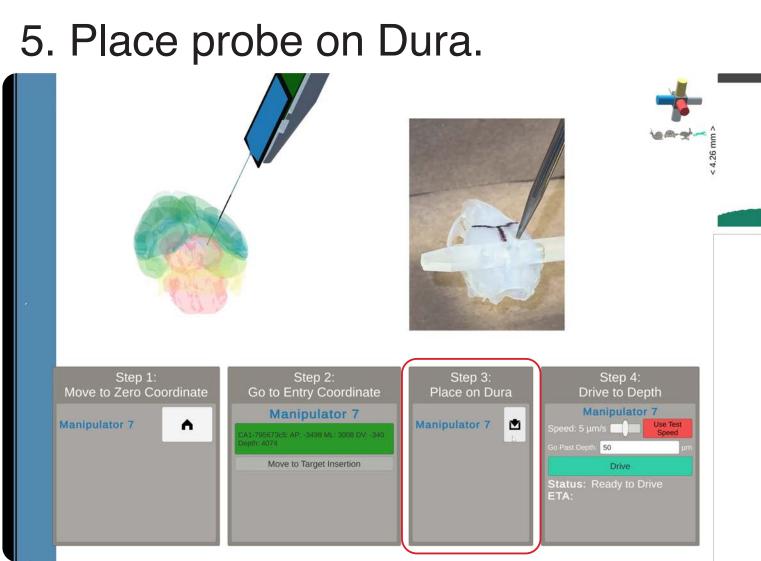
New Scale Linear Micro Stages



Sensapex uMp Micromanipulators

4. Automatically drive to entry coordinate. ten de < 4.26 mm >

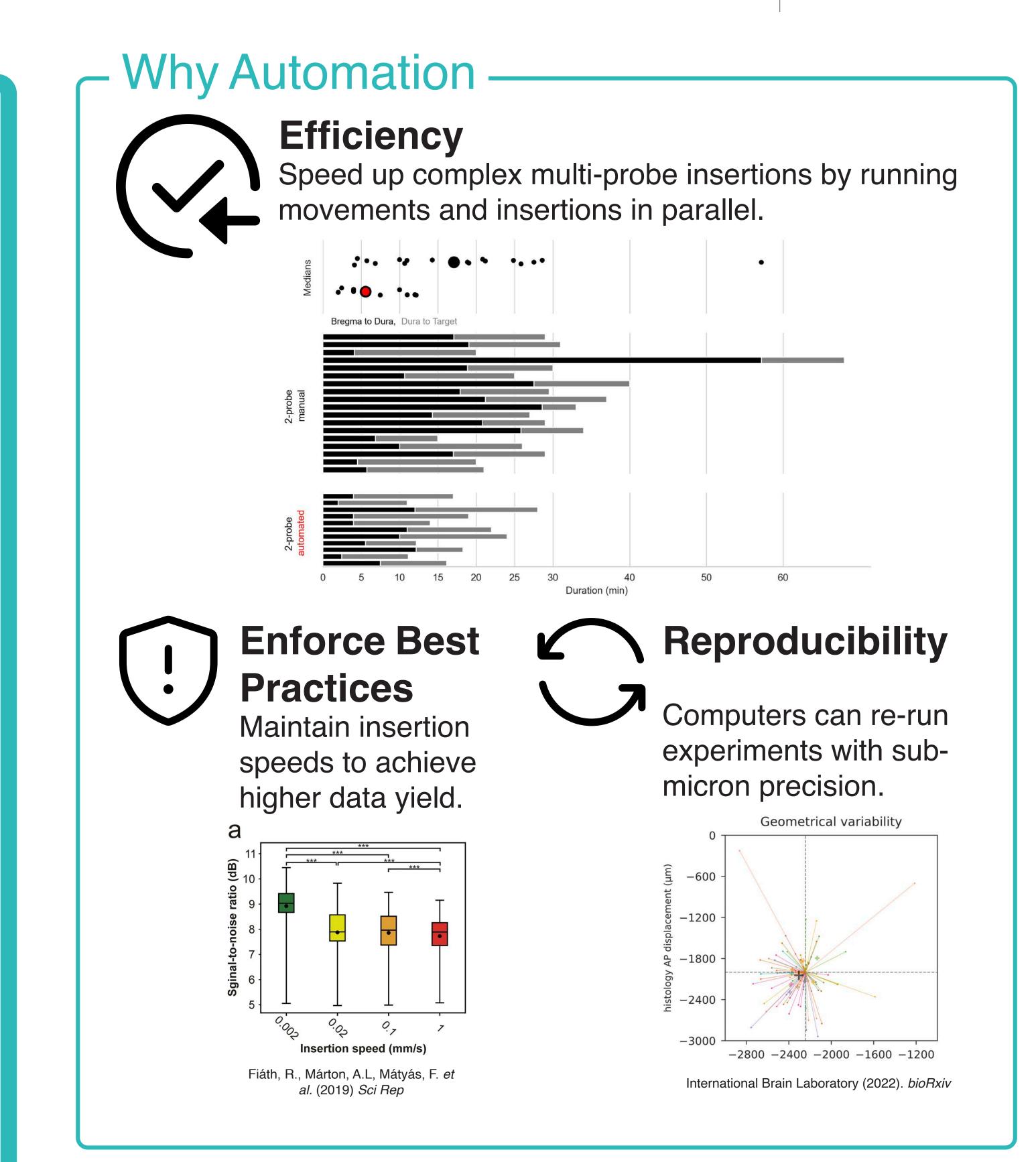
Stop Movement







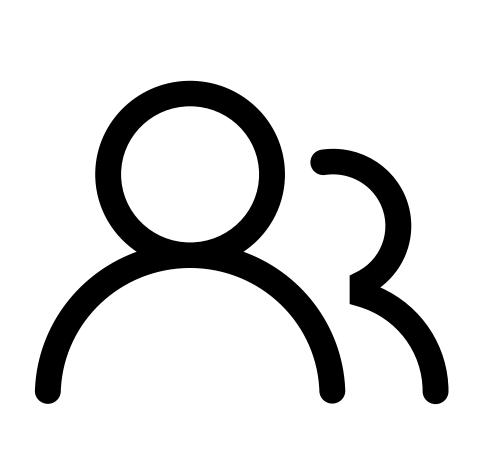






Automatic Calibration and Probe Tracking Hands-free electrophysiology

experiments via Parallax, a photogrammetry-assisted probe targeting software from the Allen Institute for Neural Dynamics.

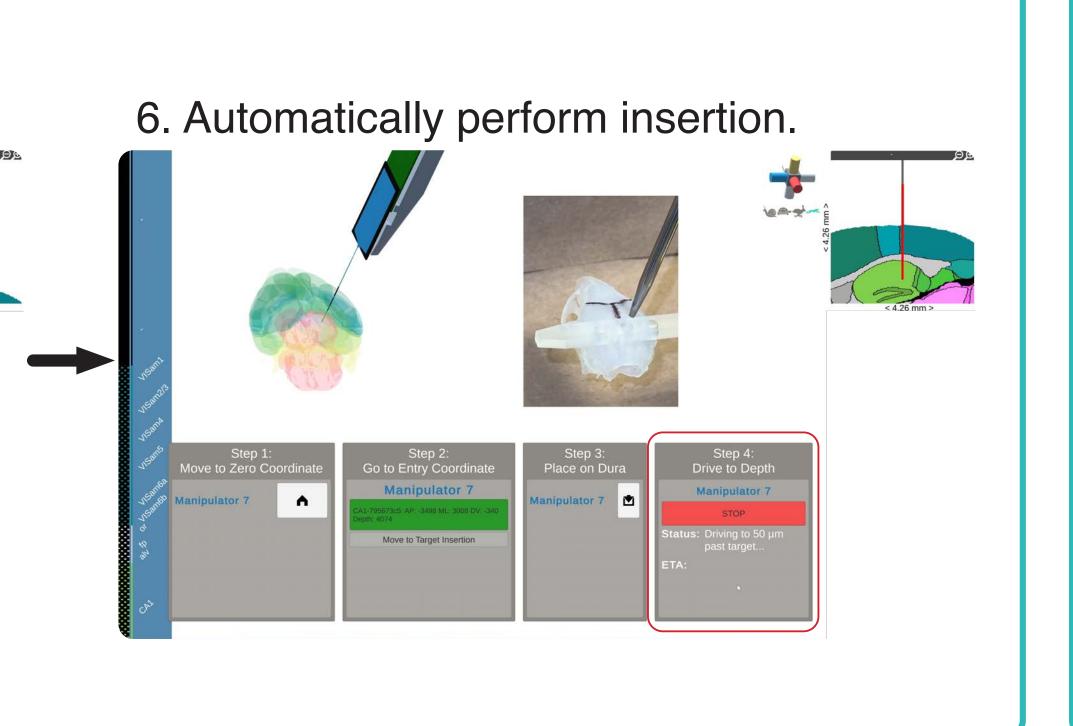


https://github.com/AllenNeuralDynamics/paralla

Outreach

We want to help you get Pinpoint and automation in your lab. We also want to support the manipulators you use. Scan the QR code to get in touch!





Pinpoint and Ephys Link are developed and maintained by KJY and DB. NS provided project support and guidance. Sensapex and New Scale provided manipulator support. Poster designed with support from D Ahmed and S. Delehanty



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