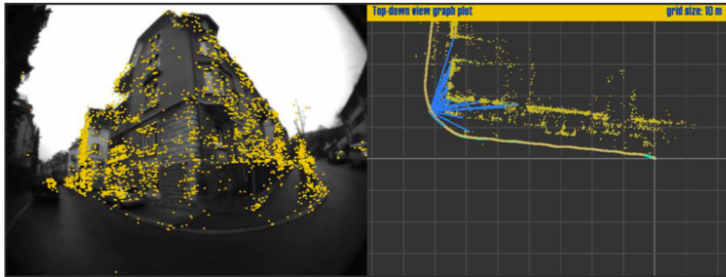# Get Out of My Lab: Large-scale, Real-Time Visual-Inertial Localization
S. Lynen, T. Sattler, M. Bosse, J. Hesch, M. Pollefeys, R. Siegwart (RSS 2015)

- Demonstrates that large-scale, real-time pose estimation and tracking can be performed on mobile platforms with limited resources without the use of an external server

- Contributions:
  - Proposes a large-scale system that entirely runs on devices with limited computational & memory resources while offering accurate, real-time localization
  - Proposes a direct inclusion of 2D-3D matches from global localization into the local visual-inertial estimator
  - Leads to smoother trajectories & faster run-times compared to sliding window Bundle Adjustment

- Evaluates on dataset introduced in the paper