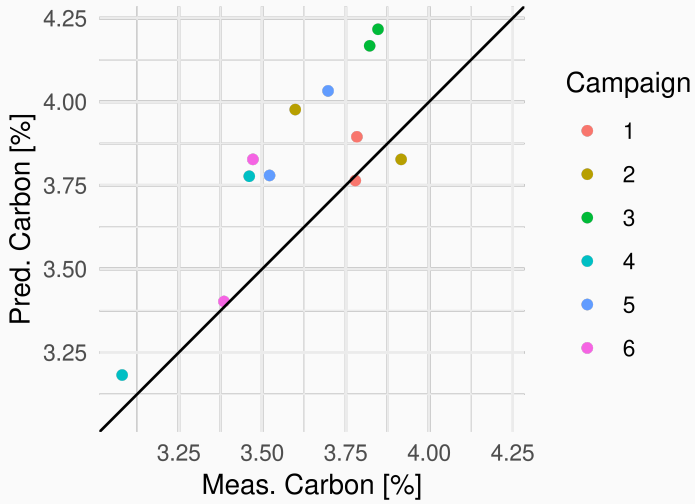
Instance-based transfer learning vs. general ML

- Cubist hold-out predictions for one site
  - For example: location "70 DIS"
  - Field campaigns every 5 years since 1985
  - Hold-out samples are grouped by location
  - *Overall bias (entire SSL) close to zero, but there is "site" bias*



- *Transfer learning*:
  - Transfer from knowledge in an source problem or domain to a target domain
- "Resampling(rs)-local" as a form of *Instance-based transfer learning*
  - Lobsey, C. R., Viscarra Rossel, R. A., Roudier, P., & Hedley, C. B. (2017). rs-local data-mines information from spectral libraries to improve local calibrations: rs-local improves local spectroscopic calibrations. European Journal of Soil Science. https://doi.org/10.1111/ejss.12490
  - "Brute-force peeling"