We are probing spin transport, in particular the spin diffusion length, by injection of spins from ferromagnetic to non-magnetic metals.

- Metallic spintronic devices widely employed as field sensors (e.g. in hard disks)
- Factors limiting spin diffusion length, temperature dependence, poorly understood
- We use a “non-local” geometry in a nanoscopic lateral spin valve to probe the spin transport and relaxation
- Fabrication by UHV MBE / electron beam lithography