

# Radio spectrum social behaviours



Frank Gao

- Radio spectrum sensing & cognition
  - requires precise accuracy and low complexity
- Weak signals detection with flexible and compact antennas
  - for mobile, base station, satellite, RFID
- Welch's wavelet compressed sensing for single and multi-nodes
- Antenna design embedded in a satellite and launched into space
  - for telemetry, tracking and command link, global navigation satellite system signal reception, inter-satellite cross links

