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## 4:30-6:00 PM

### CLYDE'S PUB UCCS

## SONAR JAMMING, STEALTH AND SILENCE:

# THE ACOUSTIC WORLD OF BATS

Bats are masters of sound, employing sophisticated high-frequency signals to ensonify their surroundings and construct detailed acoustic scenes. However, this sensory strategy comes at a cost. Echolocation signals inadvertently reveal a bat's presence to prey and conspecifics, driving evolutionary arms races and clever mating strategies. Examples include prey and rival bats employing specialized sonar-jamming signals, bats emitting covert and ultra-quiet echolocation pulses to evade detection, and some species even abandoning echolocation entirely. This presentation explores the fascinating acoustic world of bats and what their soundscape reveals about the complex lives of these enigmatic animals.