Luke Tierney: University of Iowa and R-core

- Statistical areas
    - Computational methods for Bayesian inference
    - Dynamic graphics

- Computational projects
    - Lisp-Stat
    - R-Core (since 1997)

- R-Core contributions
    - Low level infrastructure
    - Language features

Low level infrastructure
▶ Memory management
▶ Byte code compilation
▶ Serializaiton
▶ Profiling support
▶ ALTREP

Language features
▶ Environments on formulas
▶ `with()` function
▶ Active bindings
▶ Exception handling system
▶ Namespaces
▶ Raw strings
▶ Native pipe operator

Current and future projects
▶ API clarification and cleanup
▶ Compiler improvements
▶ Complex assignment improvements
▶ Support for larger integers