# Doesn't Work Polymorphically

- Compare:
  - the HOL type $(\alpha)\mathit{list}$
  - the ST operator $\mathsf{List} : V{\to}V$
- It would be nice to define *list* via $\mathsf{List}$
- Alas, not possible in pure HOL
  - possible with transfer principles
- Chou (UCLA) suggests $(\alpha)\,V$ instead of $V$
  - $V$ a unary type operator
  - ZFA (ZF + atoms) instead of ZF
  - define $(\alpha)\mathit{list}$ via $\mathsf{List} : (\alpha)\,V{\to}(\alpha)\,V$
  - I hope to investigate this