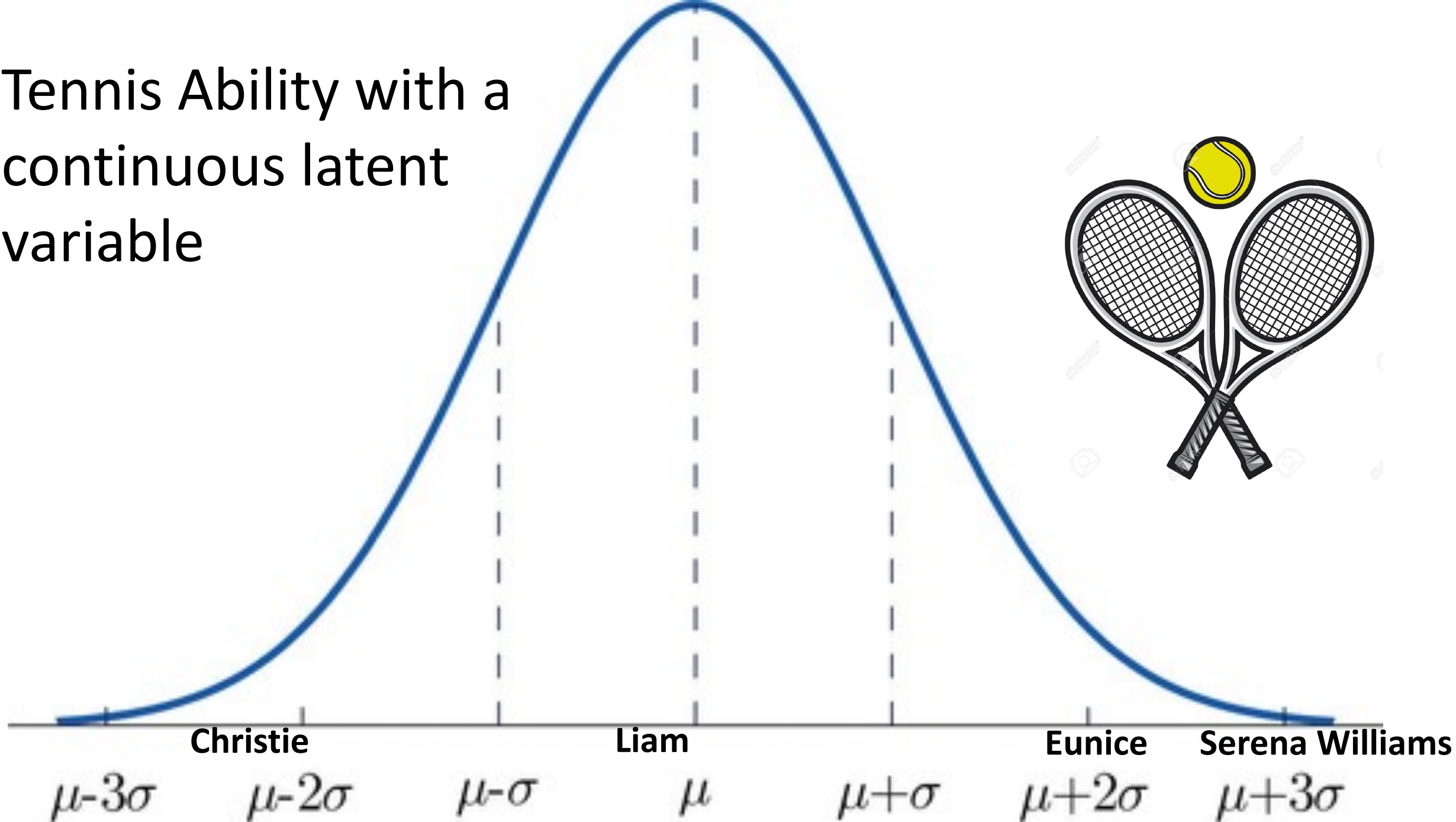# Foundations of DCM in R
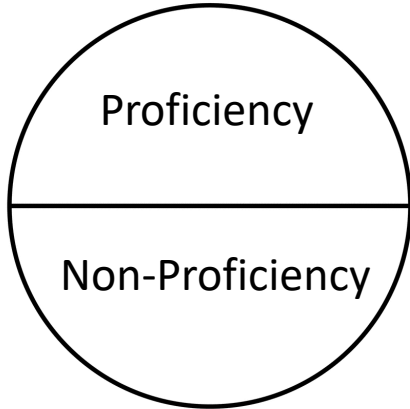
Christie Barron

Tennis Ability with a continuous latent variable

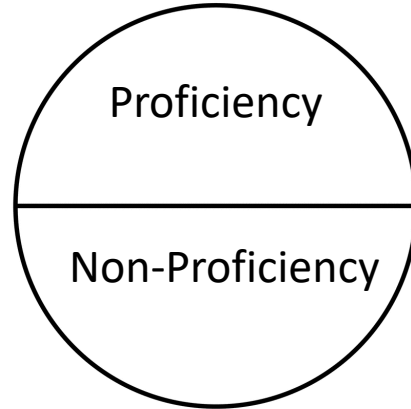# Categorical (Fine-Grained) Tennis Skills

Technique
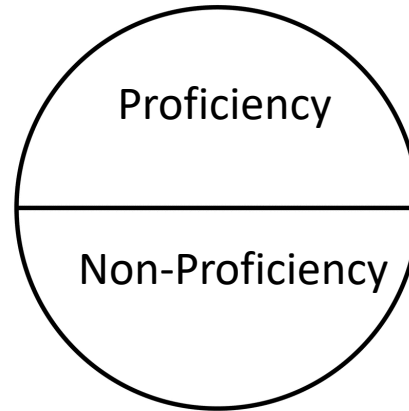
Proficiency

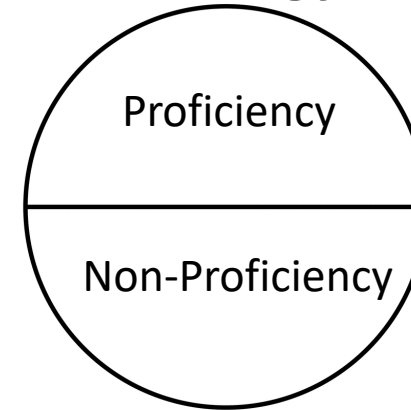Non-Proficiency

Endurance

Proficiency

Non-Proficiency

Agility

Proficiency

Non-Proficiency

Strategy

Proficiency

Non-Proficiency

Individual-Level Person Statistic (reprinted)

G-DINA Model

Dina	Deterministic Inputs Noisy "and" Gate
Dino	Deterministic Inputs Noisy "or" Gate
A-CDM	Additive Cognitive Diagnostic Model
LLM/C-RUM	Linear Logistic Model / Compensatory Reparameterized Unified Model
R-RUM	Reduced Reparameterized Unified Model