Inhibition enhanced by adversity, it enables people to ignore irrelevant chaos and focus on threats and opportunities. Inhibition is impaired by adversity, because by only on focusing on goal-relevant information, one will miss opportunities in the here and now.

A research framework program should be like a compass “we want to go north, not south” -> “We want to study how adversity shapes skill development”. The question is general put pointed in a direction. Adaptive logic is a scalpel, not a shovel.

Exploratory -> insight in biology

Narrow versus broad search, local optima

Discover the adaptive landscape in the early stages, bad idea to do narrow search.

Alison Gopnick

Functional-logic is a narrow search, we know very little about hidden talents

1. Adaptive logic
2. Interesting findings
3. Lead to these findings
4. Findings mixed, we need to learn
5. In a field so young we need

Is

* Introduction
  + The idea that some skills might be enhanced by adversity is gaining traction.
  + Research has a found a few skills related to adversity exposure
  + So far, skills are narrow, context dependent, and tested in a piecemeal fashion.
  + In this paper, we zoom out and take stock
    - First, we highlight the basic assumptions of adaptation-based skill development
    - Second, we draw on general empirical insights from studies so far.
* Adaptation-based assumptions and empirical insights
  + Assumptions
    - Adaptation-based frame works are based on functional-link logic
    - Skills that are enhanced by adversity serve an adaptive function in that environment.
    - Variability in skill-environment fit should lead to impairments and enhancements across skills
    - Environments-challenges-skills
  + Insights
    - Enhanced skills are context-depend
      * Testing-context
      * Testing content
    - Enhanced skills manifest within, not between individuals
      * Performance

Scalpels and Shovels

Frameworks formalize the rules of the game, they don’t tell you who is going to win.

Criteria for multiple literatures

Map more of the parameter space

Previous work has been confirmatory, univariate focused on a skill, -design

Outcomes usually within and some are more equalization-intactness – empirical results

Dig too deep, too fast. Standard versions

Criteria – equivalence testing,

Less impaired – combination dragging, developmental process

Selective impairments versus general impairment

General impairment and selective adaptation

Process and performance

Equifinality-multiple ways to arrive at the same outcome

Broader exploration within subj, principled way to quantify intactness

* Hidden talents research is growing
  + So far
    - Research has a found a few skills related to adversity exposure
    - Skills are narrow, context dependent, and tested in a piecemeal fashion.
    - Results are also mixed
  + Taking stock, where are we now?
    - Original goal was to map the cognitive strengths: what are the attention, memory, learning, etc skills?
    - What tools do we have to draw more of the map?
    - Functional-link thinking
      * Examine new skills
      * New ecological contexts
      * Develop new tasks
* Assumptions
  + Adaptive Hypothesis need criteria
  + Adaptive Hypotheses need more data
* General Empirical Insights
* Building Exploratory Criteria