











"Discovery Phase" of Science

- E.g.: Infantile Autism
 - (Also called autism.) A spectrum of neuropsychiatric disorders characterized by deficits in social interaction and communication, and unusual and repetitive behavior.
- <u>http://www.youtube.com/watch?v=2v4</u> <u>Pt_tgIpU&feature=related</u>

"Discovery Phase" of Science

- E.g.:
 - Clinical Psychologist Leo Kanner (1943) was working with disturbed children
 - Noticed a similarity in behavior of some children
 - He called this syndrome (a set of symptoms) as infantile autism.
- Discovery of Infantile Autism



Hypothesis

- Examples of Hypotheses (continued)
 - Research participants who play violent video games are *predicted* to behave *less* aggressively after the exposure than participants who passively view television violence

because

video game participants have the opportunity to release any aggressive impulses; passive television viewers do not have the opportunity during exposure.

Hypothesis-Generating Heuristics

Intensive case study

- Paradoxical incidents
- Analogies, metaphors, and imagery
- Conflicting results
- Improve old ideas
- Serendipity
- Varied replication

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Hypothesis-Generating Heuristics

Intensive case study

- In-depth examination • E.g., Freud and psychoanalysis

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Dou you know who Sigmund Freud is?

Sigmund Freud

- Father of psychoanalysis
- The great guestion that has never been answered, and which I have not yet been able to answer, despite my thirty years of research into the feminine soul, is "What does a woman want?"





Hypothesis-Generating Heuristics

- Intensive case study
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Hypothesis-Generating Heuristics Paradoxical incident A seemingly contradictory event • E.g., Diffusion of responsibility Latane & Darley (1964) 28-year old nurse stabbed More than 50 neighbors heard her screams and came their windows

- No one helped, no one called the police
- This event lasted about ½ hour

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Hypothesis-Generating Heuristics

- Paradoxical incidentWhy so many people failed to intervene.
- Latane & Darley (1964)
 - "Diffusion of responsibility"
 - Hypothesis: The more bystander witnesses to an emergency, the less likely it is that any one of them will offer help

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