#### Social Judgment and Inference

Fall 2015

Midterm Exam Wednesday, October 21, 2015

Review in Class (Q&A Format) Monday, October 19

Narrative Review Now Posted to Course Website

DSP Students Information on Accommodations Forthcoming

#### Covers August 26 - October 14, Inclusive

- Introduction
- Cognitive Perspective on Social Interaction
   Fiske & Taylor Chs 1-2; Zerubavel Ch 1
- Social Perception - F&T Chs 3, 9-10; Z, Chs 2-3
- Social Memory - F&T, Ch 4; Z, Ch 6
- Social Categorization - F&T, Chs 11-12; Z, Chs 4-5
- Social Judgment & Inference
   F&T, Chs 6-8

#### Format of Exam

- Exactly 15 Questions
  - 3-5 Points Each
  - 50 Points Total
- Short Answers

   No More Than 3-5 Sentences
- Answer on Exam Itself
  - No "Blue Books" Required
  - Write Answers in Ink
    - If Pencil, No Re-Evaluation

#### **Exam Preparation**

3

- "Exam Information" Page on bCourses
  - "Philosophy of Exams"
  - Information on Scoring
  - Narrative Review
  - All Old Exams (with Scoring Guide)
- Lecture Illustrations
- Lecture Supplements
- Post Questions to bCourses Forum
  - "Comments and Queries"
  - Deadline: Tuesday, October 20, 12:00 Noon,

#### Tasks of the Social Perceiver

- Impression Formation
  - Mental Representations of Social Stimuli
- Social Categorization
  - Similarity Judgment
- Causal Attribution
  - Explanations of Social Events
  - Sufficient Reasons
- Moral Judgment
  - When Outcome Attributable to a Person





#### Fritz Heider (1896-1988)



9

- · Basic Writings
  - "Social Perception and Phenomenal Causality" (1944)
  - The Psychology of Interpersonal Relations (1958)
- Lewin: B = f(P, E)
  - Possible Causes of Behavior
    - Something About Person (Actor)
    - Something About the Environment (Situation)
  - Actual vs. Perceived Causes
    - Professional vs. Naïve Psychologist



### Information for Causal Attribution Kelley (1967, 1971)

- Consistency Across Contexts

   Actor's Behavior Toward Target
   High vs. Low
- Distinctiveness of Across Targets
  - Actor's Behavior In Context
    - High vs. Low
- Consensus Among Actors
  - Behavior Toward Target in Context
  - High vs. Low
  - $2 \times 2 \times 2 = 8$  possible combinations 11

# Naïve Experiment Vary One Cause, Keep Others Constant Phenomenal Cause – Element which Covaries with Behavior John laughed at the comedian – Behavior: Laughing – Actor: John

- Target: Comedian
- Context: Performance

### *Why* did John Laugh at the Comedian?

- Something about John
- Something about the Comedian
- Something about the Situation
- Something about John and the Comedian

13

#### Interaction

- Both Necessary Causes
- Neither Cause Is Sufficient

Event Descriptions McArthur (1972)

- Event: John Laughed At the Comedian
- Consensus Information
   Almost everyone vs. Hardly anyone...
   ...who heard the comedian laughed at him
- Consistency Information
  - In the past, John has almost always vs. has hardly ever...
  - …laughed at the comedian.
- Distinctiveness Information – John rarely vs. almost always...
  - ...laughs at other comedians

#### Control

- No Consensus, Consistency, or Distinctiveness Information

14

16





- Distinctiveness Low
   John Also Laughs at Other Comedians
- Consensus Low
   Hardly Anyone Laughed at this Comedian
  - Causal Attribution to John (<u>Actor</u>)



#### John Laughed at the Comedian... Case 2

- Consistency Remains High
  - In the Past, John has Almost Always Laughed at this Comedian
- Distinctiveness Now High

   John Doesn't Laugh at Other Comedians
- Consensus Also High
  - Everyone Laughed at this Comedian

Causal Attribution to the Comedian (Target)









#### The Covariation Calculus and Theories of Normative Rationality

- Person as Naïve Scientist
  - Designs Controlled Experiments
  - Takes Account of Confounding Variables
  - Statistical Analysis of Data
  - Logical Conclusions Given Premises
- Covariation Calculus as Rational

   Algorithm for Combining Information
   Always Gives the Correct Answer

23

# E C

Problems with Algorithms in Social Judgment Tversky & Kahneman (1974); Hastie & Dawes (2001, 2010)

24

- Algorithm Unknown
- Not Enough Information Available
- Available Information Cannot Be Used
  - Insufficient Time
  - Insufficient Motivation

#### Judgment Under Uncertainty

#### Departures from the Covariation Calculus

#### Despite Sufficient Information

- Fundamental Attribution Error (Ross, 1977)
  - Overestimate Role of Dispositions
  - Underestimate Role of Situations
- Actor-Observer Difference (Jones & Nisbett, 1972)
   Ake Dispositional Attributions About Others
  - Make Situational Attributions About Self
- Self-Serving Bias (Hastorf et al., 1970; Greenwald, 1980)
  - Take Responsibility for Good Outcomes
  - Deny Responsibility for Bad Outcomes

25

27

#### The Fundamental Attribution Error

- Changes in the environment are almost always caused by acts of persons in combination with other factors. The tendency exists to ascribe the changes entirely to persons. Heider (1944, p. 361)
- [T]he intuitive psychologist's shortcomings... start with his general tendency to overestimate the importance of personal or dispositional factors relative to environmental influences.... He too readily infers broad personal dispositions..., overlooking the impact of relevant environmental forces and constraints. Ross (1977, p. 183)



26

[T]he tendency to attribute behavior exclusively to the actor's dispositions and to ignore powerful situational determinants of the behavior. Nisbett & Ross (1980, p. 31)











#### The Actor-Observer Difference in Causal Attribution



[T]here is a pervasive tendency for actors to attribute their actions to situational requirements, whereas observers tend to attribute the same actions to stable personal dispositions. Jones & Nisbett (1972, p. 80)

Also known as the Self-Other Difference in Causal Attribution

31



Aspects of the Actor-O Watson (1	Dbserver Difference
Attributions re: Self	Situations > Traits
Attributions re: Others	Traits > Situations
Attributions to Traits	Other > Self
Attributions to Situations	Self > Other
	33





#### The Totalitarian Ego Greenwald (1980), p. 604

- Conservatism
  - The Self-Concept is Characterized by "Resistance to Cognitive Change"
- Egocentricity
  - People Perceive Themselves as "More Central to Events" Than They Really Are
- Beneffectance
  - People Perceive Themselves as
     "Selectively More Responsible for Desired, but not Undesired, Outcomes.



- In asking students to judge an examination's quality as a measure of their ability to master course material, I have repeatedly found a strong correlation between obtained grade and belief that the exam was a proper measure.
- Students who do well are willing to accept credit for success;
- those who do poorly, however, are unwilling to accept responsibility for failure, instead seeing the exam (or the instructor) as being insensitive to their abilities.







#### Expressions of Normative Rationality: Covariation Calculus for Causal Attribution

- Logical, Systematic Rules for Judgment, inference
  - Specifies All Necessary Information
  - How Information is Combined
- Problems Soluble
  - Appropriate Algorithm Inevitably Leads to Correct Solution

41

- Rational Thought Employs Algorithms
  - Guaranteed to Reach Correct Answer

Departures from the Covariation Calculus as Departures from Normative Rationality

- Fundamental Attribution Error (Ross, 1977)
- Actor-Observer Difference (Jones & Nisbett, 1972)
- Self-Serving Bias (Hastorf et al., 1970 ; Greenwald, 1980)



#### - Attributed to Variable / Situational Causes • Bad Luck / Special Disadvantage, etc.



43

Human Inference: Strategies and Shortcomings of Social Judgment Nisbett & Ross (1980), p. 273



"We have identified a number of shortcomings in everyday inference - shortcomings that, for the most part, can be traced either to people's over-reliance on primitive judgmental heuristics or to their inattentiveness to conventional normative considerations."



have purely cognitive origins, and can be traced to imperfections in our capacities to process information and draw conclusions.... They are the products, not of irrationality, but of flawed rationality."

45

#### A Little List of Errors and Biases After Krueger & Funder (2004), Table 1 Correspond Overconfidence Bias Halo Effect mental Attribution Erro Funda

False Uniqueness Effect False Consensus Effect Negativity Bias Disconfirmation Bias Positivity Bias Gooale Confirmation Bias "Cognitive Errors" Male Bias Justice Bias Gambler's Fallacy Hot-Hand Fallacy Decision-Making Self-Protective Similarity Bias Hindsight Bias "Ultimate" Self-Serving Bias Probability and Belief Social Self-Serving Bias Pessimistic Bias Conjunction Fallacy Ontimistic Bias Memory Sinister Attribution Error Positive Outcome Bias Ingroup-Outgroup Bias Diagnosticity Bias Hypothesis-Testing Bias Vulnerability Bias Durability Bias Labeling Bias Self-Image Bias External Agency Illusion Actor-Observer Bias Systematic Distortion Effect Intensity Bias Just-World Bias Asymmetric Insight Illusion Dispositional Bias Clouded Judgment Effect Romantic Bias Bias Blind Spot 46 . Empathy Gap Empathy Neglect

#### The "People Are Stupid" School of Psychology Kihlstrom (2004)

- People Are Fundamentally Irrational
- People Act on Automatic Pilot
- · Behavior is Unconscious
- We Don't Know What We're Doing
- Unconscious Thought Is Superior
- We Don't Know How Stupid We Are - Lack Appreciation of Errors and Biases

47

#### Self-Other Difference in Causal Attribution

- Internal vs. External Attributions
- Is It an Error?
  - Contrast with Fundamental Attribution Error - Informational Differences
- Limited Evidence
  - Self-Enhancing but not Self-Protective
  - Greatest Under Conditions of High Self-Threat

48













#### Analyzing Social Interaction Lewin (1939/1951), p. 140

#### B = F[P,E] = F[L Sp]

The psychological environment has to be regarded functionally as a part of one interdependent field, the life space, the other part of which is the person. This fundamental fact is the keynote of the field-theoretical approach.

55



#### 

Covert Behavior Leads to Overt Behavior



## A New Framework for Causal Attribution Malle (2005) Folk-Conceptual Theory – Back to Heider (1944) Abandons Model of Naïve Scientist How People Actually Reason About Behavior Generating Factors – Reasons (Rational Connection) Mere Causes (Mechanical Connection)



#### Types of Reasons

- · Beliefs and Desires
  - Mental State Necessary for Intentional Action
- Mental State Markers (vs. Unmarked)
  - She went to the café because she wanted an authentic cappuccino.
  - She went to the café because she thought they have authentic cappuccino.

#### Unmarked Mental States

- Can Confuse External with Internal Causes
- Assume Subjectivity, Rationality
- She didn't speak up because the teacher was there.

# Types of Causes Apply to Any Physical Event Dimensions of Causality Internal vs. External The tree fell because its roots were shallow. The tree fell because the wind was strong. Stable vs. Unstable The tree fell because the winds are strong here. The tree fell because of a tornado. Global vs. Local

• The tree fell because the soil is bad here.

• The tree fell because it was planted poorly.

62

Causal History of Reasons **Enabling Factors** • Explain Beliefs and Desires Skill - No Assumption of Subjectivity, Rationality • She got an A because she's very smart. Causal Antecedents of Reasons Opportunity - Unconscious Processes • She got an A because her date was cancelled. • He planted the garden because he loved his mother. Removed Obstacles - Personality Factors • She got an A because she found her notes. • He planted the garden because he's cheap. - Socialization and Culture • He planted the garden because he's a farm kid. - Immediate Context 63 • He planted the garden because he likes fresh fruit.





if unintentional	if intentional
offer cause offer EF	offer reason offer CHR
-situation cause - situation EF	valuing
person cause person EF	belief desire person











#### Automaticity: Situationism Revived After LaBerge & Samuels (1974); Posner & Snyder (1975); Schneider & Shiffrin (1977); Schiffrin & Schneider (1977)

- Inevitable Evocation by Stimulus
- Incorrigible Completion (Ballistic)
- Efficient Execution (No Resources)
- Parallel Processing (No Interference)
- <u>Unconscious</u> in the Strict Sense of the Term – Operate Outside Phenomenal Awareness
  - Operate Outside Voluntary Control

#### Mechanisms of Automaticity

- Innate

   Reflex, Taxis, Instinct
- Acquired Through Extensive Practice
   Conditioned Responses, Habits

#### Automaticity in Social Behavior

- Most Social Behavior is Automatic
  - Triggered by Environment
  - Preattentive/Preconscious Processing
- Internal Mental Representations of the Situation are Constructed Automatically
   Perception "Dumped" in Consciousness
- Behavior Follows Automatically from Cognition

75

73



74

#### Interruptions of Experimenter Bargh et al. (1996), Experiment 1

- Cover task: Scrambled sentences
  - "Rude" Primes
    - aggressively, rude, bother, disturb, intrude
  - "Polite" Primes
  - respect, honor, considerate, appreciate, patiently
  - "Neutral" Primes
    - exercising, flawlessly, occasionally, rapidly, gleefully
- Experimenter Engaged with Confederate – Ignores Waiting Subject
- Interruptions During 10-minute waiting period



#### The Automaticity Juggernaut Kihlstrom (2008)

- Social Behavior Largely Automatized

   Conscious Percepts, Goals, Emotions Irrelevant
  - Automatically Triggered by Preconscious Analysis
- Consciousness is an Afterthought
   Give Plausible/Acceptable Reasons for Behavior

#### • We Are All Zombies After All

- Not Because Zombies are Conscious Too
   Dennett
- But Because Consciousness is Epiphenomenal
   Plays No Causal Role in Behavior 79

#### "The Automaticity of Everyday Life" Bargh (1997, p. 1)

- "[T]he more we know about the situational causes of psychological phenomena, the less need we have for postulating internal conscious mediating processes to explain these phenomena....
- [I]t is hard to escape the forecast that as knowledge progresses regarding psychological phenomena, there will be less of a role played by free will or conscious choice in accounting for them....
- That trend has already begun..., and it can do nothing but continue."



82

#### "Is Consciousness Riding into the Sunset?" Bargh (1997), p. 50, 52



"Automaticity pervades everyday life, playing an important role in creating the psychological situation from which subjective experience and subsequent conscious and intentional processes originate....

I emphatically push the point that automatic, nonconscious processes pervade all aspects of mental and social life, in order to overcome what I consider dominant, even implicit, assumptions to the contrary.



The Unbearable Automaticity of Being Bargh & Chartrand (1999, p. 462)

"[M]ost of a person's everyday life is determined not by their conscious intentions and deliberate choices but by mental processes

that are put into motion by features of the environment and that operate outside of conscious awareness and guidance."

Behavior -- It's Involuntary Park (American Psychologist 1999), p. 461



"We perceive ourselves to have far more control over our everyday behavior than we actually do....

[T]he source of behavioral control comes not from active awareness but from... mental activations of which we are unaware and environmental cues to which we are not consciously attending that have a profound effect on our behavior.

[T]hese articles represent... fundamental breakthroughs in the understanding of motivations, free will, and behavioral control."



#### Automaticity Pervades Social Cognition



- Preconscious Automaticity
  - Unconscious Inputs to Conscious Processes
  - Direct Activation of Goal Pursuit/Social Behavior
- Postconscious (Goal-Dependent) Automaticity
  - Dependent on Prior Conscious/Intentional Thought

85

87

#### Sources of the Automaticity Juggernaut Kihlstrom (2008)

- "Conscious Shyness"
  - Epiphenomenalism



88

"The consciousness of brutes would appear to be related to the mechanism of their body simply as a collateral product of its working, and to be completely without any power of modifying that working as the steamwhistle which accompanies the work of a locomotive engine is without influence upon its machinery." T.H. Huxley (1868) 86



Avoidance of Mediating Conscious Processes



The Automaticity Principle Huang & Bargh (2013)

- Doubts About Conscious Control
  - Power of Situational Influences
  - Limits of Introspective Access
  - Dual-Process Models
- Effects of Unconscious Processes
  - How a Person Perceives the World
  - How a Person Behaves in Response

# Per l

#### A Softening of Views? Bargh et al. (2012)

"Any process of sufficient complexity to be of interest to social psychologists involves a complex interplay between both controlled (conscious) and automatic processes."  $_{(p, \, \text{ext})}$ 

"Conscious thought is causal and it often puts automatic processes into play; similarly, automatic processes regularly cause and influence conscious thought processes. These two fundamental forms of human information processing work together, hand in glove, and indeed one would not be able to function without the other." (p. ROZ)



#### Two Systems in Judgment and Decision-Making Kahneman, Thinking, Fast and Slow (2011)



THINKING

FAST-SLOW

DANIEL KAHNEMAN

91

- System 1
  - Automatic, Fast, Unconscious– Heuristic, "Hot"
  - Emotions, Stereotypes
- System 2
  - Controlled, Slow, Conscious
  - Algorithmic, "Cold"
  - Logical, Systematic
- System 1 Usually Wins the Race



92

 The Latest Word 2
 Image: Darge (2014), p. 37

 "Freud spent countless thousands of words in providing explanations as to why our unfulfilled wishes express themselves in the imagery and stories that populate our nightly dreams. The latest research provides a more pragmatic perspective on how thought and emotion just below the surface of our awareness shape the way we relate to a boss, parent, spouse or child. That means we can set aside antiquated notions of Odedipus complexes and accept the reality that the unconscious asserts its presence in every moment of our lives, when we are fully awake as well as when we are absorbed in the depths of a dream."

#### Critique of Automaticity Kihlstrom (2009) • Weak Operationalization

- Failure to Apply Canonical Features

prediction of almost all psychological

Inevitable Evocation

phenomena."

- Incorrigible Completion
- Efficient Processing
- Parallel Processing
- Confusion Between Automatic and Incidental
- Demand Characteristics
- No Assessment of Comparative Influence – Automatic vs. Controlled Processes



Process-Dissociation Procedure Jacoby (1991); Yonelinas & Jacoby (2012)



95

- Estimates Influence of Automatic and Controlled Processes
- · Method of Opposition
  - Pits the Two Against Each Other
    - Inclusion Condition
      - Automatic, Controlled Processes Work Together
         » Automatic Process Facilitates Performance
    - Exclusion Condition
      - Automatic, Controlled Processes Oppose Each Other
         » Suppress of Automatic Process

#### 20-Year Retrospective of PDP Yonelinas & Jacoby (2012)

- Many Applications Beyond Memory
- Criticisms of "Process Independence"
  - Processes May be Redundant/Embedded
  - May Need Multinomial Model (>2 Processes)
- But Converging Evidence
  - Outcomes as Predicted by Process-Independence
  - Alternative Measures of A and C in Memory
    - Remember/Know Judgments
    - Signal-Detection Theory



#### The False Fame Effect Jacoby et al. (1989)

- Study List of Nonfamous Names
   Memory Test
- 24 Hours Later, Make Fame Judgments – Famous, Nonfamous Names
- Previously Studied Nonfamous Names are Now Judged to be Famous
  - "Becoming Famous Overnight"
- Explanation
  - Study Primes Names on Judgment Task
  - Priming Increases Availability
  - Biases Judgments of Fame
  - Influence of Priming is Automatic





- Benaviors Prime Relevant Trait
   Priming Increases Availability
- Influence of Priming is Automatic





- Faces Prime Racial Stereotypes – Stereotype Primes Related Judgment
- Influence of Priming is Automatic

101

97













#### The Automaticity Argument Summarized

- Experimental Evidence: Automatic Processes Play Some Role, Under Some Conditions, in Social Cognition and Behavior.
- Theoretical Conclusion: Automatic Processes are Pervasive, and Consciousness Is Largely an Afterthought.
   But Does Not Follow From the Evidence