# <u>AP Psychology Study Guide</u>

# History and Approaches

## (2-4%)

- Psychology is derived from
- physiology (biology) and philosophy

### EARLY APPROACHES

#### o Structuralism – used

**INTROSPECTION** (act of looking inward to examine mental experience) to determine the underlying STRUCTURES of the mind

• *Functionalism* – need to analyze the PURPOSE of behavior

#### <u>APPROACHES KEY WORDS</u>

- o *Evolutionary* Genes
- *Humanistic* free will, choice, ideal, actualization
- o *Biological* Brain, NTs
- Cognitive Perceptions, thoughts
- o Behavioral learned, reinforced
- *Psychoanalytic/dynamic* unconscious, childhood
- o Sociocultural society
- o *Biopsychosocial* combo of above
- <u>PEOPLE:</u>
- Mary Calkins: First Fem. Pres. of APA
- *Charles Darwin:* Natural selection & evolution
- *Dorothea Dix:* Reformed mental institutions in U.S.
- Stanley Hall: 1<sup>st</sup> pres. of APA1<sup>st</sup> journal
- *William James:* Father of *American* Psychology – functionalist
- *Wilhem Wundt:* Father of Modern Psychology structuralist
- *Margaret Floy Washburn*-1st fem. PhD

○ *Christine Ladd Franklin* – 1<sup>st</sup> fem.

# Research Methods (8-10%)

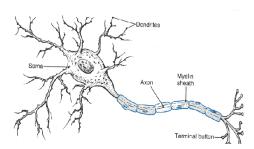
• <u>EXPERIMENT</u>: Adv: researcher controls variables to establish **cause and effect** Disadv: difficult to generalize

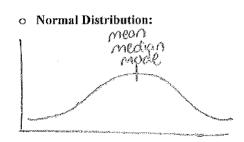
- *Independent Variable*: manipulated by the researcher
  - *Experimental Group:* received the treatment (part of the IV)
  - *Control Group:* placebo, baseline (part of the IV)
  - Placebo Effect: show behaviors associated with the exp. group when having received placebo
  - **Double-Blind:** Exp. where neither the participant or the experimenter are aware of which condition people are assigned to
- **Dependent Variable:** measured variable (is DEPENDENT on the independent variable)

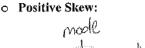
- Operational Definition: clear, precise, typically quantifiable definition of your variables – allows replication
- *Confound:* error/ flaw in study
- Random Assignment: assigns participants to either control or experimental group at random – minimizes bias, increase chance of equal representation
- *Random Sample:* method for choosing participants minimizes bias
- Validity: accurate results
- *Reliability:* same results every time
- **NATURALISTIC OBSERVATION:** Adv: real world validity (observe people in their own setting) Disadv: No cause and effect
- <u>CORRELATION:</u> Adv: identify relationship between two variables Disadv: No cause and effect (CORRELATION DOES NOT EQUAL CAUSATION)
  - <u>*Positive Correlation*</u> Variables vary in the same direction
  - <u>Negative Correlation</u> variables vary in opposite directions
  - <u>The stronger the # the stronger the</u> relationship REGARDLESS of the pos/neg sign
- <u>CASE STUDY:</u> Adv. Studies ONE person (usually) in great detail – lots of info Disadv: No cause and effect
- <u>**DESCRIPTIVE STATS:**</u>shape of the data
  - Measures of Central Tendency:
    - Mean: Average (use in normal distribution)
    - Median: Middle # (use in skewed distribution)
    - Mode: occurs most often
- <u>INFERENTIAL STATISTICS:</u> establishes significance (meaningfulness) Significant results =

NOT due to chance

- <u>ETHICAL GUIDELINES (APA)</u>
   o Confidentiality
  - Confidentiality
     Informed Consent
  - Debriefing
  - Deception must be warranted
    - Biological Basis (8-10%)
- <u>NEURON:</u> Basic cell of the NS • *Dendrites:* Receive incoming









#### o Negative Skew:



signal

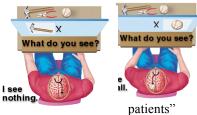
- Soma: Cell body (includes nucleus)
- Axon: AP travels down this
- *Myelin Sheath:* speeds up signal down axon
- *Terminals:* release NTs send signal onto next neuron
- *Synapse:* gap b/w neurons
- <u>Action Potential</u>: movement of sodium and potassium ions across a membrane sends an electrical charge down the axon
  - <u>All or none law</u>: stimulus must trigger the AP past its threshold, but does not increase the intensity of the response (flush the toilet)
  - <u>Refractory period</u>: neuron must rest and reset before it can send another AP (toilet resets)
- <u>Sensory neurons receive signals</u>
- <u>Afferent neurons Accept signals</u>
- Motor neurons send signals
- Efferent neurons signal Exits
- <u>CENTRAL NS:</u> Brain and spinal cord
- **PERIPHERAL NS:** Rest of the NS
  - <u>Somatic NS:</u> Voluntary movement
  - <u>Autonomic NS:</u> Involuntary (heart, lungs, etc)
    - <u>Sympathetic NS</u>: Arouses the body for fight/flight (generally activates)

• Parasympathetic NS: established homeostasis after a sympathetic response (generally inhibits)

#### **NEUROTRANSMITTERS (NTS):** Chemicals released in synaptic gap, received by neurons

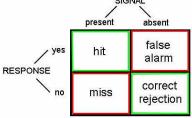
- o **<u>GABA:</u>** Major inhibitory NT
- GlutamatE: Major Excitatory NT 0
- **Dopamine:** Reward & movement 0
- Serotonin: Moods and emotion
- Acetylcholine (ACh): Memory 0
- *Epinephrine & Norepinephrine:* 0 sympathetic NS arousal
- Endorphins: pain control, 0 happiness
- Oxytocin: love and bonding
- Agonist: drug that mimics a NT
- Antagonist: drug that blocks a NT
- **Reuptake:** Unused NTs are taken back up into the sending neuron. SSRIs (selective serotonin reuptake inhibitors) block reuptake - treatment for depression
- **AREAS OF THE BRAIN:**
- Hindbrain: oldest part of the brain o Cerebellum - movement (what does it
- take to ring a **bell**) ○ Medulla – vital organs (HR, BP)
- Pons sleep/arousal (Ponzzzzz)
- Midbrain
- Reticular formation: attention (if you can't pay attention, You R F'd)
- Forebrain: higher thought processes
- o Limbic System
  - Amygdala: emotions, fear (Amy, da! You're so emotional!)
  - Hippocampus: memory (if you saw a hippo on campus you'd remember it!)
- o Thalamus: relay center (Thala- MUST everything MUST go thru here; except smells, b/c they're MUSTY)
- Hypothalamus: Reward/pleasure center, eating behaviors
- o Broca's Area (aphasia): Inability to produce speech (Broca – Broken speech)
- o Wernicke's Area (aphasia): Inability to comprehend speech (Wernicke's what?)
- Cerebral Cortex: outer portion of the brain – higher order thought processes
  - Occipital Lobe: located in the back of the head - vision
  - Frontal Lobe: decision making, planning, judgment, movement, personality
  - Parietal Lobe: located on the top of the head - sensations
  - Temporal Lobe: located on the sides of the head (temples) – hearing and face recognition

- Somatosensory Cortex: map of our sensory receptors -in parietal lobe
- Motor Cortex: map of our motor receptors - located in frontal lobe
- o Corpus Callosum: bundle of nerves that connects the 2 hemispheres sometimes severed in patients with severe seizures - leads to "split-brain



- Lateralization: the brain has some specialized features - language is processed in the L Hemisphere
- Split-brain experiments: done by Sperry & Gazzanaga.
- Images shown to the right hemisphere will be processed in the left (& vice versa), patient can verbally identify what they saw
- BRAIN PLASTICITY: Brain can "heal" itself
- NATURE VS. NURTURE: ANSWER **IS BOTH** 
  - Twin Studies:
    - Identical twins Monozygotic (MZ)
    - Fraternal twins Dizygotics (DZ)
  - o Genetics: MZ twins will have a higher percentage of also developing a disease
  - o Environment: MZ twins raised in different environments show differences
- **ENDOCRINE SYSTEM:** sends hormones throughout the body
  - o Pituitary Gland: Controlled by hypothalamus. release growth hormones
- o Adrenal Glands: related to sympathetic NS: releases adrenaline
- **BRAIN IMAGING:** 
  - EEG: brain activity not specific
  - o XRAY: not useful, doesn't show
  - tissues • CT / MRI: shows structures

  - PET: glucose shows brain activity SIGNAL



(when in doubt pick this one)

o fMRI: glucose shows activity in real time

## Sensation & Perception (6 - 8%)

- ABSOLUTE THRESHOLD: detection of signal 50% of time (is it there)
- **DIFFERENCE THRESHOLD** (also called a just noticeable difference (JND) and follows WEBER'S LAW: two stimuli must differ by a constant minimum proportion. (Can you tell a change?)
- SIGNAL DETECTION THEORY
- Sensory Adaptation: diminished sensitivity as a result of constant stimulation (can you feel your underwear?)
- Perceptual Set: tendency to see something as part of a group – speeds up signal processing
- Inattentional Blindness: failure to notice something b/c you're so focused on another task (gorilla video)
- Cocktail party effect: notice your name across the room when its spoken, when you weren't previously paying attention
- VISUAL SYSTEM:
  - $\circ$  Pathway of vision: light  $\rightarrow$  cornea  $\rightarrow$  pupil/iris  $\rightarrow$  lens  $\rightarrow$  retina  $\rightarrow$ rods/cones  $\rightarrow$  bipolar cells  $\rightarrow$ ganglion cells  $\rightarrow$  optic nerve  $\rightarrow$  optic chiasm  $\rightarrow$  occipital lobe
  - Cornea protects the eye
  - **Pupil/iris** controls amount of light entering eye
  - Lens focuses light on retina
  - Fovea-area of best vision(cones here) (your FOVarite (favorite) thing is the best thing)
  - Rods black/white, dim light
  - Cones color, bright light
  - Bipolar cells connect rods/cones and ganglion cells
  - Ganglion cells opponent-processing occurs here
  - Blind spot occurs where the optic nerve leaves the eye
  - Feature detectors specialized cells that see motion, shapes, lines, etc. (experiments by Hubel & Weisel)
- **THEORIES OF COLOR VISION:**
- Trichromatic three cones for receiving color (blue, red, green)
- Explains color blindness they are missing a cone type
- **Opponent Process** complementary colors are processed in ganglion cells explains why we see an after image
- Visual Capture: Visual system overwhelms all others (nauseous in an IMAX theater - vision trumps vestibular)

- *Constancies:* recognize that objects do not physically change despite changes in sensory input (size, shape, brightness)
- <u>Phi Phenomenon</u>: adjacent lights blink on/off in succession – looks like movement (traffic signs with arrows)
- <u>Stroboscopic movement:</u> motion produced by a rapid succession of slightly varying images (animations)
- MONOCULAR CUES (how we form a 3D image from a 2D image)
- $\circ \ \underline{Interposition:} overlapping \ images \\ appear \ closer \\$
- <u>Relative Size:</u> 2 objects that are usually similar in size, the smaller one is further away
- $\circ$  <u>Relative Clarity:</u> hazy objects appear further away  $\circ$
- <u>Texture Gradient:</u> coarser objects are closer
- <u>Relative Height:</u> things higher in our field of vision look further away
- <u>Linear Perspective:</u> parallel lines converge with distance (think railroad tracks)
- **<u>BINOCULAR CUES</u>**: (how both eyes make up a 3D image)

<u>Retinal Disparity:</u> Image is cast slightly different on each retinal, location of image helps us determine depth <u>Convergence:</u> Eyes strain more

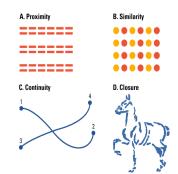
(looking inward) as objects draw nearer

- <u>**TOP-DOWN PROCESSING:**</u> Whole  $\rightarrow$  smaller parts
- <u>BOTTOM-UP PROCESSING:</u> Smaller Parts  $\rightarrow$  Whole
- <u>AUDITORY SYSTEM:</u>
- Pathway of sound: sound → pinna
   → auditory canal → ear drum
   (tympanic membrane) → hammer,
   anvil, stirrup (HAS) → oval window
   → cochlea → auditory nerve →
   temporal lobes
- $\circ$  Outer Ear: pinna (ear), auditory canal
- **Middle Ear:** ear drum , HAS (bones vibrate to send signal)
- Inner Ear:\_cochlea like COCHELLA (sounds 1<sup>st</sup> processed here)
- <u>THEORIES OF HEARING</u>: both occur in the cochlea
  - **Place theory** location where hair cells bends determines sound (high pitches)
- Frequency theory rate at which action potentials are sent determines sound (low pitches)
- **OTHER SENSES:**

- o Touch: Mechanoreceptors → spinal cord → thalamus → somatosensory o cortex
- $\circ$  Kinesthetic: Sense of body position  $_{\circ}$
- Vestibular: Sense of balance
   (semicircular canals in the inner ear effect this)
- Taste (gustation): 5 taste receptors: bitter, salty, sweet, sour, umami (savory)
- Smell (olfaction): Only sense that does NOT route through the thalamus 1st. Goes to temporal lobe and amygdala
- GESTALT PSYCHOLOGY: Whole is greater than the sum of its parts Gestalt Principles:
  - <u>Figure/ground</u>: organize information into figures objects (figures) that stand apart from surrounds (back ground)



- <u>Closure:</u> tendency to mentally fill in gaps
- <u>Proximity</u>: tendency to group things together that appear near each other
- <u>Similarity</u>: tendency to group things together based off of looks
- <u>Continuity:</u> tendency to mentally form a continuous line



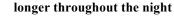
# States of Consciousness (2 - 4%)

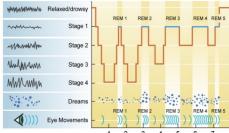
#### <u>STATES of CONSCIOUSNESS:</u>

- **Higher-Level:** controlled processes totally aware
- Lower-Level: automatic processing (daydreaming, phone numbers)
- Altered States: produced through drugs, fatigue, hypnosis
- $\circ$  Subconscious: Sleeping and dreaming
- No awareness: Knocked out
- <u>METACOGNITION:</u> Thinking about thinking

- <u>SLEEP:</u>
  - Beta Waves: awake
  - Alpha Waves: high amp., drowsy
  - Stage 1: light sleep
  - Stage 2: bursts of sleep spindles
  - Stage 3 (delta waves: Deep sleep
  - Stage 4: extremely deep sleep Rapid Eye Movement (REM):
  - dreaming

Entire cycle takes 90 minutes, REM occurs inb/w each cycle. REM lasts





#### • CIRCADIAN RHYTHM: 24 hour

biological clock

- Body temp and awareness change due to this
- Controlled by the Suprachiasmatic nucleus (SCN) in the brain
   Explains jet lag

#### • SLEEP DISORDERS

- <u>Insomnia:</u> Inability to fall asleep (due to stress/anxiety)
- <u>Sleep walking:</u> (due to fatigue, drugs, alcohol)
- <u>Night terrors</u>: extreme nightmares NOT in REM sleep – typical in children
- <u>Narcolepsy:</u> fall asleep out of nowhere (due to deficiency in orexin)
- <u>Sleep Apnea:</u> stop breathing suddenly while asleep (due to obesity usually)

#### • DREAM THEORIES:

- Freud's Unconscious Wish <u>Fulfillment</u>: Dreaming is gratification of unconscious desires and needs
  - <u>Latent Content</u>: hidden meaning of dreams
  - <u>Manifest Content</u>: obvious storyline of dream
- <u>Activation Synthesis:</u> Brain produces random bursts of energy – stimulating lodged memories. Dreams start random then develop meaning

#### • HYPNOSIS

- It Can: Reduce pain, help you relax
- <u>It CANNOT:</u> give you superhuman strength, make you regress, make you do things against your will

#### • **PSYCHOACTIVE DRUGS:**

• Triggers dopamine release in the brain

- *Depressants:* Alcohol, barbiturates, tranquilizers, opiates (narcotics)
  - Decrease sympathetic NS activation, highly addictive
- <u>Stimulants:</u> Amphetamines, Cocaine, MDMA (ecstasy), Caffeine, Nicotine
  - Increase sympathetic NS activation, highly addictive
- o *Hallucinogens:* LSD, Marijuana
- Causes hallucinations, not very addictive
- *Tolerance:* Needing more of a drug to achieve the same effects
- *Dependence:* Become addicted to the drug – must have it to avoid withdrawal symptoms
- Withdrawal: Psychological and physiological symptoms associated with sudden stoppage. Unpleasant – can kill you.

Learning (7-9%)

- <u>CLASSICAL CONDITIONING:</u> <u>PAVLOV!</u>
- Unconditioned Stimulus (US): brings about response w/o needing to be learned (food)
- **Unconditioned Response (UR):** response that naturally occurs w/o training (salivate)
- **Neutral Response (NS):** stimulus that normally doesn't evoke a response (bell)
- **Conditioned Stimulus (CS):** once neutral stimulus that now brings about a response (bell)
- **Conditioned Response (CR):** response that, after conditioning, follows a CS (salivate)
- **Contiguity:** Timing of the pairing, NS/CS must be presented immediately BEFORE the US
- Acquisition: process of learning the response pairing
- **Extinction:** previously conditioned response dies out over time
- **Spontaneous Recovery:** After a period of time the CR comes back out of nowhere
- Generalization: CR to like stimuli (similar sounding bell)
- $\circ$  Discrimination: CR to ONLY the CS
- <u>CONTINGENCY MODEL: Rescorla</u> <u>& Wagner –</u> classical conditioning involves cognitive processes
- <u>CONDITIONED TASTE AVERSION</u> (<u>ONE-TRIAL LEARNING</u>): John <u>Garcia</u> – Innate predispositions can allow classical conditioning to occur in one trial (food poisoning)
- <u>COUNTERCONDITIONING: Little</u> <u>Albert and John Watson (father of</u> <u>behaviorism) –</u> conditioned a fear in a

baby (only to countercondition – remove it- later on)

- <u>OPERANT CONDITIONING:</u> <u>SKINNER!</u>
- LAW OF EFFECT (Thorndike): Behaviors followed by pos. outcomes are strengthened, neg. outcomes weaken a behavior (cat in the puzzle box)
- <u>PRINCIPLES OF OPERANT</u> <u>COND:</u>
- Pos. Reinforcement: Add something nice to increase a behavior (gold star for turning in HW)
- Neg. Reinforcement: *Take away* something *bad/annoying* to *increase* a behavior (put on seatbelt to take away annoying car signal)
- **Pos. Punishment:** *Add* something *bad* to *decrease* a behavior (spanking)
- Neg. Punishment: *Take away* something *good* to *decrease* a behavior (take away car keys)
- **Primary Reinforcers:** innately satisfying (food and water)
- Secondary Reinforcers: everything else (stickers, high-fives)
  - Token Reinforcer: type of secondary- can be exchanged for other stuff (game tokens or money)
- Generalization: respond to similar stimulus for reward
- **Discrimination:** stimulus signals when behavior will or will not be reinforced (light on means response are accepted)
- Extinction / Spontaneous Recovery: same as classical conditioning
- **Premack Principle:** high probability activities reinforce low probability activities (get extra min at recess if you everyone turns in their HW)
- **Overjustification Effect:** reinforcing behaviors that are intrinsically motivating causes you to stop doing them (give a child 5\$ for reading when they already like to read – they stop reading)
- Shaping: use *successive approximations* to train behavior (reward desired behaviors to teach a response – rat basketball)
- Chaining: tie together several behaviors
- Continuous Reinforcement schedule: Receive reward for every response
- **Fixed Ratio schedule:** Reward every X number of response (every 10 envelopes stuffed get \$\$)
- **Fixed Interval schedule:** Reward every X amount of time passed (every 2 weeks get a paycheck)

- Variable Ratio schedule: Rewarded after a random number of responses (slot machine
- Variable Interval schedule: Rewarded after a random amount of time has passed (fishing)
- *Variable schedules are most resistant to extinction* (how long will keep playing a slot machine before you think its broken?)
  - <u>SOCIAL (OBSERVATIONAL)</u> <u>LEARNING: *BANDURA*!</u>
- **Modeling Behaviors:** Children model (imitate) behaviors. Study used BoBo dolls to demonstrate the following
- O **Prosocial** helping behaviors
- Antisocial mean behaviors
- <u>MISC LEARNING TYPES</u>
   Latent learning (*Tolman!*) learning is hidden until useful (rats in maze get reinforced half way through, performance improved
  - Cognitive maps mental representation of an area, allows navigation if blocked
- **Insight learning (Kohler!)** some learning is through simple intuition (chimps with crates to get bananas)
- Learned Helplessness (Seligman!) no matter what you do you never get a positive outcome so you just give up (word scrambles)

# Cognition (8 – 10%)

#### **ENCODING:** Getting info into memory

- Automatic encoding requires no effort (what did you have for breakfast?)
- Effortful encoding requires attention (school work)
- Shallow, intermediate, deep processing: the more emphasis on MEANING the deeper the processing, and the better remembered
- **Imagery** attaching images to information makes it easier to remember (shoe w/ spaghetti laces)
- Self-referent encoding we better remember what we're interested in (you'd remember someone's phone number who you found extremely attractive)
- **Dual encoding** combining different types of encoding aids in memory
- **Chunking** break info into smaller units to aid in memory (like a phone #)
  - **Mnemonics** shortcuts to help us remember info easier
    - Acronyms using letter to remember something (PEMDAS)
    - Method of loci using locations to remember a list of items in order

- **Context dependent memory** where you learn the info you best remember the info (scuba divers testing)
- State dependent memory the physical state you were in when learning is the way you should be when testing (study high, test high) STORAGE: Retaining info over time

#### STORAGE. Retaining into over time

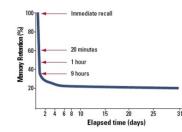
- *Information Processing Model* Sensory memory, short term memory, long term memory model
- Sensory Memory stores all incoming stimuli that you receive (first you have to a pay attention)
  - Iconic Memory visual memory, lasts 0.3 seconds
  - Echoic Memory auditory memory, lasts 2-3 seconds
- Short Term Memory info passes from sensory memory to STM – lasts 30 secs, and can remember 7 ± 2 items
  - Rehearsal (repeating the info) resets the clock
- Working Memory Model splits STM into 2 – visual spatial memory (from iconic mem) and phonological loop (from echoic mem). A "central executive" puts it together before passing it to LTM
- <u>Long term memory</u> lasts a life time
  - Explicit (Declarative): Conscious recollection
    - Episodic: events
    - Semantic: facts
  - Implicit (Nondeclarative): unconscious recollection
    - Classical conditioning
    - **Priming:** info that is seen earlier "primes" you to remember something later on (octopus, assassin, climate, bogeyman)
    - Procedural: skills

#### <u>Memory organization</u>

- **Hierarchies:** memory is stored according to a hierarchy
- Semantic networks: linked memories are stored together
- Schemas: preexisting mental concept of how something should look (like a restaurant)
- <u>Memory storage</u>
  - Acetylcholine neurons in the hippocampus for most memories
  - Cerebellum for procedural memories
- **Long-term potentiation:** neural basis of memory – connections are strengthened over time with repeated stimulation (more firing of neurons)

#### **<u>RETRIEVAL: Taking info out of</u>** <u>storage</u>

- Serial Position Effect: tendency to remember the beginning and the end of the list best
- **Recall:** remember what you've been told w/o cues (essays)
- **Recognition:** remember what you've been told w/ cues (MC)
- Flashbulb memories: particularly vivid memories for highly important events (9/11 attacks)
- **Repressed memories:** unconsciously buried memories are unreliable
- Encoding failure: forget info b/c you never encoded it (paid attention to it) in the first place (which is the real penny)
- Encoding specificity principle: the more closely retrieval cues match the way we learned the info, the better we remember the info (like state dependent memory)
- Forgetting curve: recall decreases rapidly at first, then reaches a plateau after which little more is forgotten



#### (EBBINGHAUS)

- **Proactive interference:** old info blocks new
- **Retroactive interference:**\_new info blocks old
- Misinformation effect: distortion of memory by suggestion or misinformation (Loftus lost in the mall, Disney land)
- Anterograde amnesia: amnesia moves forward (forget new info – 50 first dates)
- Retrograde amnesia: amnesia moves backwards (forget old info)
- ALZHEIMER'S DISEASE:\_caused by destruction of acetylcholine in hippocampus

#### LANGUAGE

- **Phonemes:** smallest unit of sound (ch sound in chat)
- **Morpheme:** smallest unit that caries meaning (syllable)
- **Grammar:** rules in a language that enable us to communicate
- Semantics: set of rules by which we derive meaning (adding –ed makes something past tense)
- Syntax: rules for combining words into sentences (white house vs casa blanca)

- **Babbling stage:** infants babble 1<sup>st</sup> stage of speech
- One-word stage: duh
- Two-word stage: duh duh
- Theories of language development:
  - **Imitation:** Kids repeat what they hear but they don't do it perfectly
    - Overregularization:\_grammar mistake where children over use certain morphemes (I go-ed to the park)
  - **Operant conditioning:** reinforced for language use
  - **Inborn universal grammar:** theory comes from **NOAM CHOMSKY** – says that language is innate and we are predisposed to learn it
  - **Critical period:** period of time where something must be learned or else it cannot ever happen (language must be learned young – Genie the Wild Child)
  - Linguistic determinism: language influences the way we think (Hopi people do not have words for the past, thus cannot easily think about the past) developed by WHORF

#### <u>THINKING</u>

- Concepts: mental categories used to group objects, events, characteristics
- **Prototypes:**\_all instances of a concept are compared to an ideal example (what you first think of)
- Algorithms: step by step strategies that guarantee a solution (formula)



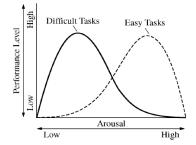
- **Heuristics:** short cut strategy (rule of thumb)
  - **Representative Heuristic:** make inferences based on your experience (like a stereotype) – assume someone must be a librarian b/c they're quiet
  - Availability heuristic: relying on availability to judge the frequency of something (over estimating death due to plane crashes due to recent events)

- Functional Fixedness: keep using one strategy cannot think outside of the box
- **Belief bias:** tendency of one's preexisting beliefs to distort logical reasoning by making invalid conclusions
- **Belief perseverance:**\_tendency to cling to our beliefs in the face on contrary evidence
- Inductive reasoning:\_data driven decisions, general → specific
- **Deductive reasoning:** driven by logic, specific → general
- **Divergent thinking:**\_ability to think about many different things at once

# Motivation & Emotion (6-8%)

#### THEORIES OF MOTIVATION

- **INSTINCT:** complex behaviors have fixed patterns and are not learned (explains animal motivation)
- **DRIVE REDUCTION:** physiological need creates aroused tension (drive) that motivates you to satisfy the need (driven by **homeostasis:** equilibrium)
  - **Primary drive:** unlearned drive based on survival (hunger, thirst)
  - <u>Secondary drive:</u> learned drive (wealth or success)
- **OPTIMUM AROUSAL:** humans aim to seek optimum levels of arousal –easier tasks requires more arousal, harder tasks need less



- <u>HIERARCHY OF NEEDS</u>: theory derived by MASLOW – needs lower in the pyramid have priority over needs higher in the pyramid
- <u>Intrinsic motivation:</u> inner motivation you do it b/c you like it
- <u>Extrinsic motivation</u>: motivation to obtain a reward (trophy) *HUNGER*
- Signals of hunger:
  - Stomach contractions tell us we're hungry
  - <u>Glucose</u> (sugar) level is maintained by the pancreas (endocrine system).
  - $\circ$  <u>Insulin</u> decreases glucose. Too little glucose makes us hungry.
  - <u>Orexin</u> is released by the hypothalamus – telling us to eat.

- Other chemicals include ghrelin, obestatin, and PPY
- Lateral hypothalamus: when stimulated makes you hungry, when lesioned you will never eat again. (I'm LATE for lunch. I'm hungry. The LATEral hypothalamus makes you hungry.)
- <u>Ventromedial hypothalamus:</u> when stimulated you feel full, when destroyed you eat eat eat eat (fat woman and cake)
- **Leptin:** leptin signals the brain to reduce appetite
- Obesity:
  - Increased risk of heart attack, hypertension, atherosclerosis, diabetes
  - Can be genetic adopted children resemble their biological parents
  - Set point: there is a control system that dictates how much fat you should carry – every person is different
- Eating Disorders:
  - Anorexia: weight loss of at least 15% ideal weight, distorted body image



- Stress curve and phases (General adaptation syndrome)
- **Causes:** overly critical parents, perfectionist tendencies, societal ideals
- **Bulimia:** usually normal body weight, go through a binge-purge eating pattern (eat massive amounts, then throw up)
  - Causes: same as anorexia <u>SEXUALITY</u>
- Biology of sex:
  - **Hypothalamus:** stimulation increases sexual behavior, destruction leads to sexual inhibition
  - **Pituitary gland:** monitors, initiates, and restricts hormones
    - Males <u>testosterone</u>
    - Females estrogen
  - Sexual Response Pattern: Excitement phase, plateau, orgasm, refractory period (resolution phase) (cannot "fire" again until you reset, guys only)
  - Alfred Kinsey: 1<sup>st</sup> researcher to conduct studies in sex, suggested that people were very promiscuous. Studies lacked a representative sample, created scale of homosexuality
  - **Homosexuality:** biological roots: differences in the brain, identical twins more likely to both be gay, later sons more likely to be (hormones from mom) *THORIES OF EMOTIONS*

- JAMES-LANGE: stimulus → physiological arousal → emotion
- <u>CANNON-BARD</u>: stimulus → physiological arousal & emotion simultaneously
- <u>SCHACTER TWO FACTOR</u>: adds in cognitive labeling (bridge experiment) stimulus → arousal → interpret external cues → label emotion
- Some stimuli are routed directly to the **amygdala** bypassing the frontal cortex (gut reaction to a cockroach)
- Behavioral factors: there are SIX universal emotions (happiness, anger, sadness, surprise, disgust, feat) seen across ALL cultures
- Non-verbal cues: gestures, duchenne smile (you can tell a real smile from a fake one)
- Facial feedback hypothesis: being forced to smile will make you happier (facial expressions influence emotion)

#### STRESS AND HEALTH

- <u>GENERAL ADAPTATION</u> <u>SYNDROME (GAS):</u> three phases of a stress response (SELYE came up w/ this)
  - Alarm: body/you freak out in response to stress
  - **Resistance:** body/you are dealing with stress
  - Exhaustion: body/you cannot take any more, give up
- <u>Type A Personality:</u> rigid, stressful person, perfectionist. At risk for heart disease
- <u>Type B Personality:</u> laid back, nonstressed.

#### <u>INDUSTRIAL/ORGANIZATIONAL</u> <u>PSYCH</u>

- <u>Industrial / Organizational Psych:</u> psychological of the workplace – focuses on employee recruitment, placement, training, satisfaction, productivity
- Ergonomics / Human Factors: intersection of engineering and psych – focuses on safety and efficiency of human-machine interactions
- <u>Hawthorne effect:</u> productivity increases when workers are made to feel important
- <u>Theory X management:</u> manager controls employees, enforces rules. Good for lower level jobs
- <u>Theory Y management</u>: manger gives employees responsibility, looks for input. Good for high level jobs

#### • Employee Commitment:

- Affective: emotional attachment (best type)
- Continuance: stay due to costs of leaving

• Normative: stay due to obligation (they paid for your school)

#### • Meaning of Work:

- Job no training, just do it for \$\$. No happiness
- Career work for advancement. Some happiness
- Calling work because you love it. Lotsa happiness

# Development (7-9%)

#### <u>Prenatal Development</u>:

- $\circ$  **Zygote:** 0 14 days, cells are dividing
- **Embryo:** until about 9 weeks, vital organs being formed
- Fetus: 9 wks to birth, overall development
- **Teratogens:** external agents that can cause abnormal prenatal development (alcohol, drugs, etc)
  - Fetal alcohol syndrome (FAS): large amount of alcohol leads to FAS, causes deformities, mental retardation, death

#### • Physical Development:

- **Maturation:** natural course of development, occurs no matter what (walking)
- **Reflexes:** innate responses we're born with
  - Rooting, sucking, swallowing, grasping, stepping
- **Habituation:** after continual exposure you pay less attention – used to test babies
- Eyes have the most limited development, takes till 1 year
  - Visual cliff: babies have to learn depth perception, so they will cross a "cliff"
- **o** Other senses are fairly developed
- Brain development continues for a few years
- JEAN PIAGET'S COGNITIVE DEV.
- Schemas concepts or frameworks that organize info
- Assimilation: incorporate new info into existing schema (aSSimlation same stuff)
- Accommodation: adjust existing schemas to incorporate new information (ACcommodation - All Change)
- <u>Sensorimotor Stage:</u> Birth to 2 years: focused on exploring the world around them
  - Lack Object Permanence: Objects when removed from field of view are thought to disappear (peek-a-boo)
  - <u>Dev.</u> <u>Sense of Self:</u> by 2 yrs can recognize themselves in the mirror

- <u>Pre-operational Stage:</u> 2 7 years: use pretend play, developing language, using intuitive reasoning
  - Lack Conservation: recognize that substances remain the same despite changes in shape, length, or position (girls with juice in glasses)
  - *Lack Reversibility:* cannot do reverse operations (count out both 4+2 and 2+4)
  - Are egocentric: inability to distinguish one's own perspective from another's – think everyone sees what they see
- <u>Concrete Operational Stage:</u> 7-11 yrs: use operational thinking, classification, and can think logical in concrete context
- <u>Formal Operational Stage:</u> 11-15 yrs: use abstract and idealist thoughts, hypothetical-deductive reasoning
- <u>Problems with Piaget's theory</u>: stages to discrete, dev. differs b/w kids
- *VYGOTSKY'S THEORY:* cognitive development is a social process too, need to interact w/ others
  - **Zone of Proximal Development:** gap b/w what a child can do on their own and w/ support. Need scaffolding (teachers)

#### SOCIOEMOTIONAL DEVELOPMENT

- <u>Temperament:</u> patterns of emotional reactions and babies (precursor to personality)
- <u>Imprinting:</u> baby geese believe the first thing they see after hatching is their mom – happens during a **critical period** (from LORENZ)
- <u>HARRY HARLOW:</u> discovered that contact comfort is more important than feeding (monkeys fed on wire or cloth mothers). Monkeys raised in isolation couldn't socialize
- MARY AINSWORTH: developed the strange situation paradigm (children left alone in a room w/ a stranger, then reunited w/ mom determines your attachment style
  - <u>Secure attachment (60% of infants):</u> upset when mom leaves, easily calmed on return. Tend to be more stable adults
  - Avoidant attachment (20% infants): actively avoids mom, doesn't care when she leaves
  - <u>Ambivalent attachment(10%</u> <u>infants):</u> actively avoids mom, freaks out when she leaves
  - Disorganized attachment (5%): confused, fearful, dazed – result of abuse
- **<u>BAUMRIND:</u>** parenting styles
  - <u>Authoritarian</u>: rules & obedience, "my way or the highway" – kids lack initiative in college

- **<u>Permissive:</u>** kids do whatever no rules kids lack initiative in college
- <u>Authoritative:</u> give and take w/ kids kids become socially competent and reliable

#### • <u>KOHLBERG'S MORAL</u> <u>DEVELOPMENT</u>

- **<u>Preconventional morality:</u>** Children: they follow rules to avoid punishment
- <u>Conventional morality:</u> adolescents: follow rules b/c rules exist to keep order
- **Postconventional morality:** adults: they do what they believe is right (even if it goes against society)
- <u>Carol Gilligan:</u> said moral reasoning and moral behaviors are two different things (what you say isn't always what you do)
- <u>ERIKSON'S SOCIOEMOTINAL</u>
   <u>DEV.</u>: 8 stages, each stage represents a

crisis that must be resolved, results in competence or weakness

- <u>Trust vs Mistrust</u> (birth 18 months): if needs are dependably met infants dev basic trust
- **Autonomy vs shame&doubt** (1 3 *yrs):* toddlers learn to exercise their will and think for themselves
- <u>Initiative vs guilt (</u>3-6 yrs): learn to initiate tasks and carry out plans
- **Industry vs inferiority** (6 yrs to *puberty*): learn the pleasure of applying themselves to tasks
- **Identity vs role confusion**: (*adolescence thru 20s*): refine a sense of self by testing roles and forming an identity
- Intimacy vs isolation: (20s-40s): form close relationships and gain capacity for love
- <u>Generativity vs stagnation</u>: (40s-60s): discover sense of contributing to the world, thru family & work
- <u>Integrity vs despair</u>: (60s and up): reflect on your life, feel satisfaction or failure
- <u>**PUBERTY!**</u> (rapid skeletal and sexual maturation)
  - **Primary sex characteristics:** necessary structures for reproduction (ovaries, testicles, vagina, penis)
  - Secondary sex characteristics: nonreproductive characteristics that dev during puberty (breasts, hips, deepening of voice, body hair)
  - Frontal lobe continuous dev (not fully developed till 25)
- <u>GENDER DEVELOPMENT:</u> sex = chromosomes, gender = what you identify yourself as
  - Gender roles: expected behaviors (norms) for men/women

- Social learning theory: we learn gender roles and identity from those around us
- AGING:
  - **Cellular clock theory:** cells have a maximum # of divisions before they can't divide anymore •
  - Free-radical theory: unstable oxygen molecules w/in cells damage DNA
  - **Over time skills decrease** (reaction time, memory)
- <u>CROSS-SECTIONAL STUDY</u>: studies ppl of different ages at the same point in time
  - Adv: inexpensive & quick
  - **Disadv:** can be differences due to generational gap
- **LONGITUDINAL STUDY:** studies same ppl over time
  - Adv: eliminates groups differences, lots of detail
  - **Disadv:** expensive, time consuming, high drop out rates
- <u>Stages of Grief (</u>crap btw)
  - o Denial: "this can't be happening"
  - o Anger: "why me?"
  - <u>Bargaining:</u> "just let me live to see my kids graduate"
  - <u>Depression:</u> "why bother"
  - Acceptance: "its going to okay"
- **<u>Problem-focused coping:</u>** solving or doing something to alter the course of stress (planning, acceptance)
- <u>Emotion-focused coping:</u> reducing the emotional distress (denial, disengagement)

## Personality (5-7%)

**PSYCHODYNAMIC EXPLANATION SIGMUND FREUD** said personality was largely unconscious. Came up w/ the following:

- <u>Conscious</u>: immediate awareness of current environment
- <u>Preconscious:</u> available to awareness (phone #s)
- <u>Unconscious:</u> unavailable to awareness
- <u>id:</u> our hidden true animalistic wants and desires operates on the pleasure principle, all about rewards and avoiding pain *(devil on your shoulder entirely unconscious)*
- <u>superego:</u> our moral conscious (*angel on your shoulder, all 3 consciousness*)
- <u>ego:</u> reality principle, has to deal w/ society, stuck mediating b/w the id and superego (*its you! – conscious and preconscious*)

# When ego cannot mediate b/w the id and superego, we use <u>defense mechanisms</u>

• <u>**Repression:**</u> push memories back into the unconscious mind (sexual abuse is too traumatic to deal w/ so you repress it)

- <u>**Projection:**</u> attribute personal shortcomings & faults on to others (man who wants to have an affair accuses his wife of having one)
- <u>Denial:</u> refuse to acknowledge reality (refuse to believe you have cancer) <u>Displacement;</u> shift feelings from an unacceptable object to a more acceptable one (can't tell at teacher, go home and yell at the dog)
- <u>Reaction formation:</u> transform unacceptable motive into his opposite (woman who fears sexual urges becomes a religious zealot)
- **<u>Regression</u>**: transform into an earlier development period in the face of stress (during exam week you start to suck your thumb)
- <u>Rationalization</u>: replace a less acceptable reasoning with a more acceptable one (don't get into your college justify it was a sucky college anyway)
- <u>Sublimination</u>: replace unacceptable impulse w/ a socially acceptable one (man w/ strong sexual urges paints nudes. Dexter)

#### FREUD'S PSYCHOSEXUAL STAGES

- **Oral stage** (0-18 months): pleasure focuses on the mouth (id)
- Anal stage (18 36 months): pleasure involves eliminative functions (ego forms)
- **Phallic stage (***3 6 yrs)*: pleasure focuses on genitals (superego forms)
  - **Oedipal complex:** young boys learn to identify w/ their father out of fear of retribution (castration anxiety)
  - **Electra complex:** young girls learn to identify w/ their mother b/c they cannot with their father (penis envy)
- Latency stage (6 yrs to puberty): psychic time out personality is set
- **Genital State** (*adulthood*): sexual reawakening – oedipal and electra "feelings" are repressed, turn sexual wants onto an appropriate person
- **FIXATION:** can become "stuck" in an earlier stage influences personality (oral stage smokes/drinks, anal is "anal retentive", phallic is promiscuous)

What's wrong w/ Freud theory? – unverifiable, descriptive not predictive What's good about it? – 1<sup>st</sup> theory about personality, sparked psychoanalysis How do we test this approach?

- **Psychoanalysis:** analyze a person's unconscious motives thru the use of:
  - Free Association: say aloud everything that comes to mind w/o hesitation
  - **Transference:** looks for feelings to transferred to psychoanalyst

- **Dream interpretation:** analyze the manifest (seen message) and latent (hidden messages) content
- **Projective Tests:** ambiguous stimuli shown to look at your unconscious motives (THESE SUCK B/C THEY ARE VERY SUBJECTIVE)
  - <u>Thematic apperception test (TAT)</u> : tell a story about a picture (when someone has a tattoo (tatt) you ask what it means
- Rorschach inkblot: show an inkblot **NEO-FREUDIANS**
- CARL JUNG: believed in the *collective unconconcious* (shared inherited reservoir of memory – explains common myths across civilizations & time)
- KAREN HORNEY: said personality develops in context of social relationships, NOT sexual urges (security not sex is motivation, men get womb envy)

#### TRAIT PERSPECTIVE

- **Traits** are enduring personality characteristics, people can be described by these have strong or weak tendencies. They are stable, genetic, and predict other attributes.
- Use **factor analysis** to find these: statistical procedure used to identify similar components
- TRAIT THEORIES:
- <u>**Big Five:**</u> (by Costa & McCrae) (acronym OCEAN) You vary on each of these
  - <u>Openness</u> : imaginative, independent, like variety
  - <u>C</u>onscientiousness: organized, careful, disciplined
  - <u>Extraversion</u>: sociable, fun-loving, affectionate (opposite it **introversion**: shy, timid, reserved)
  - <u>Agreeableness:</u> soft hearted, trusting, helpful
  - <u>N</u>euroticism (emotional stability): calm, secure

#### What's wrong with trait theory? –

ignores the role of the situation in behavior <u>What's good about it?</u> - identifying traits gives us perspectives about careers, relationships, health

#### How do we test this approach?

- **MMPI** helpful for mental health and job placement
- Myer's Briggs gave you 4 letter combo What's wrong w/ these tests?
- They're long, social desirability can be an influence, and they're too broad

#### HUMANISTIC PERSPECTIVE

• Emphasized personal growth and free will. You don't like yourself? So change!

- CARL ROGERS: talked about our *self-concept (idea of who we are)*. Your self-concept is the center of your personality
  - Actual (social) self: what others see
  - **Ideal (true) self:** who you WANT to be • A *positive* self-concept makes us
  - A positive self concept makes us perceive the world positively (optimist)
     A *negative* self-concept makes us feel

dissatisfied and unhappy <u>What wrong with humanistic theory?</u> too optimistic about human nature, abstract concepts are difficult to test <u>What's good about it?</u> – emphasizes conscious experiences and change

- Individualistic Cultures: give priorities to own goals over group goals. Define your identify in terms of you (American society)
- <u>Collectivistic Cultures:</u> give priority to the goals of the group, your identity is part of that group (China)

#### SOCIAL-COGNITIVE PERSPECTIVE

- Behavior is a complex interaction of inner process and environmental influence which influences personality
- Emphasizes conscious awareness, beliefs, expectations, and goals
- BANDURA! Talked about <u>RECIPROCAL DETERMINISM:</u>

interaction of behavior, cognitions, and Behavior environment



{I'm outgoing (*behavior*), I choose to teach b/c it lets me

make up vou.

be outgoing (*environment*), and I have thought this through which is why I teach despite making less money (*cognitive*)}

- <u>Self-efficacy:</u> belief that one can succeed, so you ensure you do
- Internal locus of control: you control your own fate
- <u>External locus of control:</u> chance / outside forces control your fate

What's wrong with social-cognitive? -

Too specific, cannot generalize

<u>What's good about it?</u> – Highlights situations, and cognitive explanations of personality

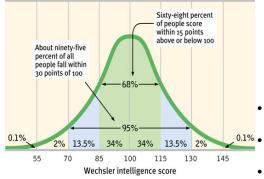
<u>**How do we test it?**</u> Observations & interviews (time consuming)

### Testing & Individual Differences (5-7%)

#### Individual Theories about Intelligence

• <u>GALTON:</u> 1<sup>st</sup> to suggest intelligence was inherited. Intelligence based on muscle strength, size of head, reaction time, etc.

- <u>CATTELL:</u> 2 clusters of mental abilities
   <u>Crystalized intelligence</u>: reasoning and verbal skills what you learn in school
   the cold hard (like crystals!) facts
  - Fluid intelligence: spatial abilities, rote memory, things that come natural to you – can't learn in school. Also decrease over time
- <u>SPEARMAN'S G FACTOR</u>: said a general intelligence (g) underlies all mental abilities (typical IQ of today)
- **GARDNER:** multiple intelligences (8): linguistic, logical-mathematical, musical, spatial, bodily-kinesthetic, intrapersonal (self), interpersonal (social), naturalist
- **STERNBERG:** TRIARCHIC THEORY
  - Analytical: mental components to solve problems, what IQ tests assess (book smarts)
  - *Practical:* ability to size up new situations and adapt to real-life demands (street smarts)



- *Creative:* intellectual and motivational processes that lead to novel solutions, idea, products
- <u>**BINET</u>**: developed 1<sup>st</sup> intelligence test, combined with **TERMAN** – developed the **STANFORD-BINET IQ TEST**</u>

 $IQ = \frac{\text{mental age}}{\text{chronological age}} X \ 100$ 

- Chronological age = actual age
- Mental age = tested age compared to other of that age
- $\circ$  100 is average
- <u>WECHSLER:</u> developed the WAIS and WISC most commonly used today
- <u>FLYNN effect:</u> IQ has steadily risen over the past 80 years – probably due to education standards and better IQ tests
- <u>Extremes of Intelligence</u>: high IQ = above 135; mentally retarded = below 70

#### • Causes of mild retardation:

- PKU liver fails to produce an ezyme needed to breakdown chemicals – leads to brain damage
- Down syndrome extra copy of 21<sup>st</sup> chromosome
- Fragile X higher chance in boys due to ONE X chromosome
- Influence on IQ:

- **Genetics:** MZ twins have similar IQ, adopted kids more similar to biological parents
- Environment: early neglect leads to lower IQ, good schooling to higher IQ
- Types of Tests:
- **Aptitude:** predicts your abilities to learn a new skill (ASVAB)
- Achievement: tests what you know(SAT)

#### • TEST CREATION:

- <u>Standardization</u>: administer a test to a representative sample of future test takers to establish a basis for meaningful comparison (test it out 1<sup>st</sup>)
- Should be <u>reliable</u>: same results over time
  - Split-half reliability: compare two halves of the test
- Test-retest reliability: use the same test on 2 different occasions
- Should be <u>valid</u>: test is accurate measures what it is intended to
  - Content validity: test measures what you want it to (an IQ test actually measures IQ)
  - Predictive validity: test is able to accurately predict a trait (high math scores predicts good engineer)
- Standardized tests establish a normal distribution
- Standard deviations are used to compare scores.
- **Standard deviation** measures how much the scores vary from the mean. The percentages stay the same in every curve

Abnormal Behavior

(7 - 9%)

- <u>Defining abnormal behavior:</u>

   Must be deviant, distressful, and dysfunctional
- <u>Historical causes:</u> biology, psychological issues, supernatural issues (demons)
- <u>Medical model</u>: emphasizes treatment of disorders, as they have a biological origin. Came through the reformation of institutions in U.S. (**DORTHEA DIX**)
- <u>Biopsychosocial model:</u> currently used model – stress biological, psychological, and social causes
- Diagnosing abnormal behavior:
  - <u>DSM</u>: manual listing all currently accepted psychological disorders. Classifies them based on criteria – provides no explanation of causes or treatments

#### <u>ANXIETY DISORDERS</u> Most common disorders in the U.S.

- <u>Generalized Anxiety Disorder (GAD)</u>: person is generally anxious, all the time, for NO REASON
- <u>Panic Disorder</u>: person is prone to frequent panic attacks (feeling like you're having a heart attack). Can come w/ **agoraphobia**: anxiety about being in places you cannot escape (fear of public spaces / people)
- <u>Phobias:</u> irrational fear that disrupts your life
- Obsessive-compulsive Disorder (OCD): person if overwhelmed with both:
  - **Obsessions:** persistent unwanted thoughts (did I leave the stove on?)
  - **Compulsions:** senseless rituals (hand washing)
- Post-traumatic stress disorder (PTSD): characterized by flashbacks, problems w/ concentration, and anxiety following a traumatic event (war, natural disasters) CAUSES OF ANXIETY DISORDERS:
- **Psychodynamic:** repressed thoughts & feelings manifest in anxiety and rituals
- **Behaviorist:** fear conditioning leads to anxiety, which is then reinforced. Phobias might be learned through *observational learning*
- **Biological:** natural selection favored those with certain phobias (heights). *Twins* often share disorders. Often see **less GABA** in the brain

#### SOMATOFORM DISORDERS

- Psychological disorders w/ no apparent physical cause
  - <u>Conversion disorder:</u> loss of feeling or usage of a limb or body part (sight) – absolutely no physiological cause though
  - **<u>Hypochondriasis:</u>** person interprets normal symptoms as a major disease – must disrupt their life

#### **DISSOCIATIVE DISORDERS**

- <u>Dissociative Identity Disorder</u>: formerly multiple personalities – person fractures into several distinct personalities who normally have no awareness of each other. **NOT SCHIZOPHRENIA!** 
  - $\circ\,$  Usually caused by traumatic childhood abuse
  - Legitimacy is doubted by some, more common in those w/ good health insurance
  - Treatment involves integration of the personalities
- **Dissociative Fugue:** following a traumatic event a person leaves, taking on a whole new life & personality w/ no memory of the previous one

#### MOOD DISORDERS

- <u>Major depressive disorder:</u> extreme sadness and despair, apathy towards life, w/ no known cause
- **<u>Dysthymia</u>**: milder form of depression, lasts for *years* (Eeyore!)
- <u>Bipolar disorder:</u> bouts of severe depression & manic episodes

   <u>Mania:</u> heightened mood, characterized by risky behaviors, fast talking, flights of ideas
- <u>Seasonal Affective Disorder (SAD)</u>: form of depression that occurs typically winter – found mostly in Northern areas (Alaska, Ireland) UNIQUE

#### TREATMENT = LIGHT THERAPY CAUSES OF MOOD DISORDERS

- <u>Biology</u>: lower levels of serotonin & norepinephrine linked to depression, higher levels of norepinephrine linked to mania. Runs in families suggesting **GENES. Twin studies** also support this.
- <u>Cognitive:</u> negative thought patterns leads to depression

#### SCHIZOPHRENIA NOT MULTIPLE PERSONALITIES! THEY HAVE ONE PERSONALITY!

#### • <u>SYMPTOMS</u>

- **Positive Symptoms (***not good means something added)*)
  - Hallucinations: sensory experiences w/o sensory stimulation (seeing and/or hearing things)
  - **Delusions:** fixed, false beliefs (people are out to get them, grandiose thoughts (I am God)
  - Disorganized thinking
  - Disorganized speech
- **Negative Symptoms** (something taken away)
  - Flat affect: lack ability to show emotions
  - Impaired decision making, inability to pay attention
- **Catatonia:** become frozen over periods of time (exhibit *waxy flexibility:* can move them into new positions)

#### <u>CAUSES OF SCHIZOPHRENIA</u>

- **Brain abnormalities:** enlarged ventricles (atrophy), smaller frontal cortex
- Genetics: runs in families, MZ twins at higher risk
- **Dopamine hypothesis:** too much dopamine in the brain
- <u>Diathesis Stress:</u> individual has a genetic predisposition, disease must be "turned-on" by environmental stimuli (like stress) – explains why it is most commonly developed during college years

#### PERSONALITY DISORDERS

- Marked by disruptive, inflexible, enduring behavior patterns – makes this very difficult to treat!
- <u>Antisocial:</u> NOT "avoidant of socialization" more like "anti-society" disregard for others, manipulative, breaks laws
- <u>Borderline</u>: instable interpersonal relationships & self-image, "I hate you, don't leave me"
- <u>**Histrionic:**</u> excessive emotionality & attention seeking (slut disorder)
- <u>Narcissistic:</u> need for admiration & lack of empathy (who cares about everyone else – look at me!)

## Treatment of Disorders (5-7%)

- **<u>PSYCHODYNAMIC APPROACH:</u>** SEE PERSONALITY SECTION
- **<u>HUMANISTIC APPROACH</u>**:
- <u>Client-centered therapy:</u> (developed by CARL ROGERS) techniques include active listening, accepting environment, focuses *on patient* growth (you figure out what needs to change and do it)

#### • **COGNITIVE APPROACH:**

- **Rational-emotive therapy:** (developed by ELLIS) techniques include analyzing self-defeating behaviors to change *thought patterns* – and then change behaviors associated w/ said patterns
  - Best for anxiety disorders
  - Very confrontational
- Cognitive therapy: (developed by BECK) illogical thoughts → psychological problems, challenges those thoughts
  - Best for depression
  - Self-directed you figure out your errors
- <u>BEHAVIORAL APPROACH</u> (typically used for anxiety disorders / phobias)

#### • Classical Conditioning:

- Counterconditioning Little Albert & Watson
  - <u>Aversive conditioning:</u> associate an unpleasant experience (e.g. nausea) w/ an unwanted behavior (e.g. drinking alcohol)
- *Exposure therapy:* slowly expose people to whatever it is that makes them anxious

- <u>Systematic desensitization:</u> associate a pleasant relaxed state w/ gradually increasing anxiety triggering stimuli (create a desensitization hierarchy – ex. List of things about flying that makes you nervous – step through each one till you can do it)
- <u>Intensive exposure therapy</u> (Flooding): force someone to experience the fear (afraid of drowning, throw you in a pool)
- Operant Conditioning: use behavior modification (reward good behaviors w/ token reinforcers). Used in schools, w/ autistic children, etc.

#### • **OTHER THERPAIES:**

- **Family therapy:** treats the family as a system, individual behaviors are influenced by family dynamics
- <u>Group therapy:</u> therapy through a group lets patients see "they're not alone"

#### • **<u>BIOLOGICAL APPROACH:</u>** CALLED BIOMEDICAL THERAPIES

#### O Drug therapies

- (psychopharmacology):
- <u>Anti-psychotics:</u> *decrease dopamine*: treats schizophrenia
- Side effects: *TARDIVE DYSKINESIA:* hand tremors (similar to Parkinson's- due to lack of dopamine), worsening of negative symptoms, extreme sedation
- Drug names: thorazine, clozapine
- <u>Anti-depressants:</u> increase serotonin through REUPTAKE inhibition
- **Side effects:** drowsiness, anxiety, can increase suicide risk in teens
- **Drug names:** SSRIs (selective serotonin reuptake inhibitors) like *Prozac, Zoloft, Paxil.* SNRIs (selective norepinephrine reuptake inhibitors) *Cymbalta, Effexor*
- <u>Mood stabilizers:</u> used in the treatment of BIPOLAR disorder : *LITHIUM*
- <u>Anti-anxiety drugs:</u> depress the central nervous system (dangerous in combo w/ alcohol) *Xanax, Ativan*
- Electroconvulsive therapy (ECT): send electricity into the brain to induce minor seizures. Used (*rarely*) to treat depression (*when nothing else works*). Thought to "reboot" the brain
- **Psychosurgery (frontal lobotomy):** frontal lobe is surgically destroyed. Used to treat depression or violent individuals – almost never used anymore

### Social (8-10%) SOCIAL THINKING

- <u>Attribution theory:</u> we explain others behaviors by crediting the situation or the person's disposition (they only passed b/c they cheated)
- Fundamental attribution error (very similar to Actor-observer bias): tendency for observers to underestimate the importance of the situation and overestimate the impact of personal disposition (that guy cut me off b/c he's a jerk – not that his wife could be in labor)

#### ATTITUDES AND ACTIONS

- <u>Central route to persuasion</u>: change people's attitudes through logical arguments and explanations. Leads to long term behavior change
- <u>Peripheral route to persuasion:</u> change people's attitudes through incidental cues (like a speaker's attractiveness). Leads to temporary behavior changes
- <u>Foot in the door phenomenon:</u> complying w/ a small request then leads to going along w/ a larger request (can I have \$5? Yes. Now can I have \$25?)
- **Door in the face phenomenon:** a large request is turned down, when then leads you to be more likely to comply w/ a small request (can I have \$100? Heck no! How about \$20? Okay)
- <u>STANFORD PRISON EXPERIMENT</u> (ZIMBARDO): classic "experiment" where individuals were assigned to be guards / prisoners. w/in days they took on their **roles** and went too far. Highly unethical
- <u>Cognitive dissonance (FESTINGER)</u>: two opposing thoughts conflict w/ each other, causing discomfort (dissonance), which makes us find ways to justify the situation (cult that was going to be abducted by aliens, smokers)

#### SOCIAL INFLUENCE

• <u>Conformity:</u> classic experiment done by <u>ASCH</u> – showed lines of different lengths, confederates gave wrong answers to see if others would go along w/ it

- **Normative social influence:** we conform to gain approval or to not stand out from the group (be part of the *norm*
- Informational social influence: we conform to others b/c we think their opinions must be right

• **Obedience:** classic experiment done by **MILGRAM**: participants were to "teach" another individual using shocks. 60% of participants would administer lethal shocks to another person simply b/c they were told to

#### **GROUP INFLUENCE**

- <u>Social facilitation:</u> perform better on simple or well learned tasks in the presence of others
- <u>Social loafing:</u> tendency for ppl in a group to exert less effort when pooling their effort together (tug of war)
- <u>Deindividuation:</u> loss of self-awareness and self-restraint occurring in group situations that foster arousal and anonymity (mob mentality)
- <u>Group polarization</u>: the more time spent w/ a group the more similar (polarized) their thoughts / opinions will become
- <u>Groupthink:</u> desire for harmony w/in a group leads to everyone going along w/ the same thinking, ignoring other possibilities or bad ideas
- **<u>Risky shift:</u>** groups make riskier decisions together rather than alone

#### **PREJUDICE**

- <u>Ingroup:</u> "US" ppl w/ whom we share a common identity
- <u>Outgroup:</u> "them" ppl perceived as different or not part of the group
- <u>Ingroup bias:</u> tendency to favor our own group
  - <u>Scapegoat theory:</u> prejudice offers an outlet for anger by providing someone else to blame
  - <u>Ethnocentrism</u>: tendency to see your own group as more important than others
- <u>Just-world phenomenon:</u> tendency for ppl to believe that the world is just and therefore ppl get what they deserve (homeless ppl)

#### AGGRESION

- <u>Genetic influence:</u> runs in families, can breed for in animals
- Lower serotonin, higher testosterone
- Environmental influence: social learning theory (BANDURA) – observing violence in others makes us more violent for a time
- <u>Also:</u> pollution, crowding, heat, humidity
- **Frustration-aggression hypothesis:** frustration creates anger, which leads to aggression

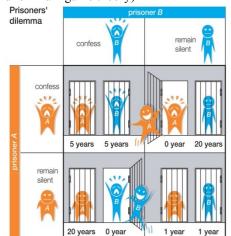
#### **ATTRACTION**

• <u>Mere exposure effect:</u> repeated exposure to novel stimuli increases liking of them (the more time you spend around something the more you like it)

- <u>Physical attractiveness:</u> pretty ppl are thought to be more credible, less likely to do bad things
- <u>Similarity:</u> we prefer ppl similar to us <u>ALTRUISM</u>
- <u>Altruism:</u> unselfish regard for the welfare of others
- <u>Bystander effect:</u> the more ppl around the less likely we are to help someone in need
- <u>Social exchange theory:</u> social behavior (helping) is an exchange process – aim is to maximize benefits and minimize cost
- <u>Reciprocity norm:</u> we give so we can get

#### CONFLICT

• <u>Social trap:</u> conflicting parties pursue their own best interests, which can result in destructive results (prisoner's dilemma – game theory)



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- <u>Approach approach conflict:</u> win win situation; conflict is which win you have to choose (you can eat out at ONE of your two favorite restaurants – you
- can only choose one though)
   <u>Approach avoidance conflict:</u> win lose situation; outcome has positive and negative aspects (marriage)
- Avoidance avoidance conflict : lose lose; both outcomes are bad but you have to choose one (clean your room or do your homework)
- <u>Multiple approach avoidance</u> <u>conflict:</u> two (or more) win-lose situations; conflict is which to choose (College A is good for your major but no scholarship, College B is bad for your major but has a scholarship)

#### SOCIAL SELF

• <u>Self-concept bias:</u> what we consider important in ourselves is what we consider important in others

- <u>False-consensus effect:</u> we overestimate the degree to which everyone else thinks / acts the way we do
- <u>Self-fulfilling prophecy:</u> a belief that leads to its own fulfillment (I expect you all to pass, you know this, you study – fulfilling my prophecy)
- <u>Self-serving bias:</u> readiness to perceive ourselves as favorably
- <u>Spotlight effect (self-objectification) :</u> tendency of an individual to overestimate the extent to which others are paying attention to them

#### MULTIPLE CHOICE STRATEGIES

- Bubble as you go you don't want to run out of time!
- Answer EVERY QUESTION you don't lose points for guessing
  - If you run out of time pick either B, C, or D and bubble straight down. DO NOT ZIG ZAG
- If you don't recognize an answer choice - it probably IS **NOT** THE ANSWER

#### ESSAY WRITING STRATEGIES

#### ANSWER THE STUPID QUESTION!

- Don't write in bullet points!
- No Fluff no transitions no topic / thesis statements
- Be specific and apply the answer to the prompt