

Vocabulary List by Chapter

Chapter 1

ASMR

Auditory Stream Analysis

cognition

confound

embodied cognition

executive functions

focal dystonia

limitation

music cognition

Music Performance Science

music psychology

neurohumanities research

neuroscience

participants

perception

stimuli

Stream Segregation

Chapter 2

Conditioned Head Turn Procedure

descriptive research

encode

false alarm

fundamental frequency (F0)

Head-Turn Preference

hydrophones

infant-directed singing

infant-directed speech

mismatch negativity response (MMN)

Perceptual Reorganization

proprioceptive system

spectrogram

vestibular system

waveform

Chapter 3

absolute pitch

amplitude

amusia

applied research

basic research

behavioral research
bottom-up processing
connectionist model of tonality
cross-cultural research
cross-sectional research
difference limen for frequency
dysrhythmia
enculturation
equal loudness contours
frequency
Hertz (Hz)
Just Noticeable Difference (JND)
longitudinal research
oscillates
perceptual bias
perfect pitch
phon
pitch class chroma
pitch height
population
probe tone task
pupillometry
rag
sample
scoops
sine wave
statistical learning
thats
top-down processing
unequal spaced scale
universals

Chapter 4

action-perception coupling
beat elimination
complex tone
doubling timbre
equal-tempered
just intonation
multimodal imagery association (MMIA)
octave equivalence
poor-pitch singer
Pythagorean tuning
singer's formant
system, as in auditory or motor system
tonal language
tone deaf

[variables](#)

Chapter 5

absolute timing
altered auditory feedback
antiphase
beat extraction
beat induction
beat perception
beat production
confounds
double stream theory of music
Dynamic Attending Theory
ecological validity
EEG
empty intervals
entrainment
estimation of time
event density
expressive timing
filled intervals
forced choice question
groove
in phase
individual differences
inter-onset interval (IOI)
isochronous
Just Noticeable Difference (JND)
mean negative asynchrony
microtiming
mirror neuron
neural oscillations
perturbations
phase-correction
phase-matched
phrase-final lengthening
preference
prime or priming
protocol
psychological present
relative timing
scalar expectancy theory
selective attention
sensorimotor synchronization (SMS)
spontaneous tempo
standard deviation
subjective rhythmization

synchronization task
synchronization-continuation task
synchronous
tactus
temps long
timekeeping
timing intervals
WEIRD researchers

Chapter 6

arousal
autobiographical memories
baseline
basic emotions
bodily response
cognitivist
CRDI (Continuous Response Digital Interface)
EMG
emotional contagion
emotivist
felt emotion
induced
peak experiences
perceived emotions
phenomenology
psychophysiological measure
reliability
response rate
self-report
self-selected music
skin conductance
state anxiety
trait anxiety
valence
validity

Chapter 7

amusia
aphasia
aptitude
brain activation
clinical research
cochlea
cocktail party phenomenon
critical periods
function

modularity
neuroplasticity
OPERA hypothesis
pathway
plasticity
pre and post-tests
Resource Sharing Framework
self-select
speech-in-noise
speech-to-song illusion
structure
tonotopic map
transfer

Chapter 8

aptitude assessment
chunk or chunking
consolidation
declarative memory
domain knowledge
encoding
enhancement
episodic memory
expert memory
explicit memory
implicit memory
long-term memory
performance cues
procedural memory
recognition test
reconsolidation
reproduction test
retrieval
semantic memory
sensory memory
short-term memory
stabilization
storage
tonal memory
working memory

Chapter 9

acquisition
action observation network
Applied Model for the Use of Observation
augmented feedback

blocked order
closed-loop control
cognitive load theory
conditions
constrained action hypothesis
contextual interference effect
distributed practice
dynamic systems theory
external focus of attention
feedforward model
Fitts' Law
generalize
generalized motor program
inherent feedback
interleaved
internal focus of attention
kinesthetic feedback
knowledge of performance
knowledge of results
massed practice
mean
motor control
motor development
motor learning
motor program
open-loop control
power
random order
replicate or replication study
research agenda
retention testing
schema
Schema Theory
social learning theory
somatosensory feedback
specificity of practice hypothesis
speed-accuracy trade-off
tactile feedback
varied practice

Chapter 10

formal music teaching or making
informal music learning or making
motion capture
N
operational definition
point light representation

prosocial behaviors
pub sessions
qualitative research
synchrony

Chapter 11

behavioral data
cognitive flexibility
correlational research or analysis
crystallized intelligence
experimental research
extra-musical benefits
far-transfer
fluid intelligence
general intelligence (g)
inhibitory control or inhibition
meta-analysis
method
near-transfer
neurological data
phonemic awareness
phonological awareness
pilot report or study
random assignment
set shifting or shifting
spatial reasoning test
speech-in-noise
Stroop task
temporal
updating
white gaze

Chapter 12

acoustic shock
adherence to treatment
auditory system
auditory-motor
autonomic nervous system
cognitive reserve
cruel, inhuman and degrading treatment (CIDT)
declarative memory
deep brain stimulation
earworm
endorphins
fractional anisotropy
hypothesis test
inferior frontal gyrus

limbic system
mechanoreceptor
melodic intonation therapy
methodological rigor
motor cortex
motor system
music therapy
neural correlates
neural substrates
neurodegenerative disorder
neurotransmitter
oxytocin
parallel processing
pitch chroma
planum temporale
prefrontal cortex
premotor cortex
protective reserve
pruning
putamen
randomized
review of literature
reward network
rhythmic auditory cueing or stimulation
secondary auditory cortex
striato-thalamo-cortical pathway or circuit
striatum
stroboscopy
valence
Wernicke's area

Chapter 13

action potential
alpha oscillations
anterior
axon
basal ganglia
beta oscillations
biomechanics
brain function
brain stem
caudal
central nervous system
cerebellum
cerebral cortex
cerebrum
contralateral activation

coronal slice
corpus callosum
cortex
cortical
default mode network
delta oscillations
dendrites
dermatone
diencephalon
dorsal
frontal lobe
glial cells
gray matter
gyrus/gyri
hippocampus
horizontal slice
inferior
interneurons
ipsilateral activation
motor neurons
myelin
nerves
network
neuroscience
parallel processing
parietal lobes
peripheral nervous system
posterior
rostral
sagittal slice
sensory neurons
soma
sulcus /sulci
superior
synapse
temporal lobes
terminal
theta oscillations
tract
ventral bottom
white matter

Chapter 14
BOLD response
cerebral blood flow
connectivity
CT

DTI (Diffusion Tensor Imaging)

ERP

fMRI

heatmap

image

indirect marker

invasive

MEG

MRI

NIRS (near-infrared spectroscopy)

noninvasive

PET (positron emission tomography)

pre-existing difference

primary auditory cortex

regions of interest (ROI)

representational similarity or dissimilarity matrix/analysis (RSA or RDA)

slices

standardized brain model

subtraction method

time series data

TMS (transcranial magnetic stimulation)

voxel

Chapter 15

basilar membrane

Broca's area

Brodmann's area (BA)

case study

hemispheric lateralization

Heschl's gyrus

involuntary muscle

involuntary musical imagery (INMI)

mismatch negativity response (MMN)

neuroimaging studies

non-invasive

occipital lobe

personally relevant music

phase locking

primary sensorimotor cortex

sensory systems

social cognition

supplementary motor area

thalamus

waitlist controls

Chapter 16

content validity
data protection
descriptive statistics
human subjects research
informants
informed consent process
IRB (Institutional Review Board)
literature review
mixed methods research
neurological research
Principal Investigator
qualitative research
research design
standard deviation
Tuskegee Study of Untreated Syphilis in the Negro Male