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How does the brain make subconscious decisions?**The Heart of Addiction: Understanding the Behavior with Lance Dodes, MD** ~~The Neuroscience of Decision-Making~~ *Free will - Part 1: Anatomy of decision making* ~~INBOUND 2016: Carmen Simon \"The Neuroscience of Decision Making\"~~ *The Computer Science of Human Decision Making | Tom Griffiths | TEDxSydney* The Neuroscience of Good Decision Making, Part 1- 2014

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Journals decision making | Journal of Neuroscience Decision making under uncertainty A molecular map of the brain's decision-making area the neuroscience of moral decision making I'm a neuroscientist at the University of Oxford in the UK. I'm interested in decision making, specifically decisions that involve tradeoffs; for example,

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There is considerable interest in understanding the neurobiological mechanisms that mediate these decision-making functions and recent advances in behavioral approaches, neuroscience techniques, and neuroimaging measures have begun to develop mechanistic links between biology, reward, and decision making.

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Decision making, the process of choosing between options, is a fundamental human behavior that has been studied intensively by disciplines ranging from cognitive psychology to economics. Despite the importance of this behavior, the neural substrates of decision making are only beginning to be understood. Impaired decision making is recognized in neuropsychiatric conditions such as dementia and drug addiction, and the inconsistencies and biases of healthy decision makers have been intensively ...

~~The Cognitive Neuroscience of Human Decision Making: A ...~~

Decision Neuroscience is the convergence of neuroscience and decision sciences, such as psychology, economics and statistics. It spans a large range of sub-disciplines including, among others, animal neurophysiology, computational neuroscience, affective science, behavioral neuroscience, social neuroscience, game theory, behavioral decision making, behavioral economics, neuroeconomics, neurology and psychiatry.

~~Frontiers in Neuroscience | Decision Neuroscience~~

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~~Decision Neuroscience - Frontiers Media~~

Abstract The study of decision making spans such varied fields as neuroscience, psychology, economics, statistics, political science, and computer science. Despite this diversity of applications, most decisions share common elements including deliberation and commitment. Here we evaluate recent progress in understanding how these basic elements of decision formation are implemented in the brain.

~~The Neural Basis of Decision Making | Annual Review of ...~~

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Decision making refers to the ability of humans and other animals to choose between competing courses of action based on the relative value of their consequences. This capacity is, therefore, fundamentally integrative, melding the complex cognitive processes through which causal relations between actions and consequences are encoded, retrieved, and maintained in working memory with the motivational processes that determine the value, or utility, of actions or sequences of actions.

~~The Neural Basis of Choice and Decision Making | Journal ...~~

Abstract. The somatic marker hypothesis proposes that decision-making is a process that depends on emotion. Studies have shown that damage of the ventromedial prefrontal (VMF) cortex precludes the ability to use somatic (emotional) signals that are necessary for guiding decisions in the advantageous direction.

~~Different Contributions of the Human Amygdala and ...~~

Understanding the neuroscience behind making a decision can be helpful when targeting new behaviors and changing bad habits. When you reach a fork in the road and need to make the right decision...

~~The Neuroscience of Making a Decision | Psychology Today~~

The new field known as “decision neuroscience” is uncovering those circuits, thereby mapping thinking on a cellular level. Although still a young field, research in this area has exploded in the last decade, with findings suggesting it is possible to parse out the complexity of thinking into its individual components and decipher how they are integrated when we ponder.

~~The Neuroscience of Decision Making | The Kavli Foundation~~

Summary: How the brain represents and codes a pleasant outcome can have an impact on decision making. Source: SfN. The brain keeps track of the value of an experience as well as how it unfolds over time; overemphasizing the ending may trigger poor decision-making, according to new research published in Journal of Neuroscience.

~~Happy Endings Trip up the Brain's Decision-Making ...~~

Now, scientists at the Okinawa Institute of Science and Technology Graduate University (OIST) have identified a new area of the brain that could be involved in cost-benefit decision-making. “Previously, many neuroscientists believed that each area of the brain carried out a specific function, such as recognizing faces, memory or movement,” said first author Dr. Bianca Sieveritz, former PhD student and now Junior Research Fellow in the OIST Brain Mechanism for Behavior Unit.

~~Mapping the Decision-Making Pathways in the Brain ...~~

This article proposes that neuroscience can shape future theory and models in consumer decision making and suggests ways that neuroscience methods can be used in decision-making research.

~~[PDF] Decision neuroscience and consumer decision making ...~~

The journal focuses on all aspects of the neuroscience of decision making, including neuroeconomics, behavioral economics, decision neuroscience and all studies in cognitive and social neuroscience, neuroethology, and neurophysiology with a clear impact on the neuroscience of decision making.

~~Neuroscience of Decision Making - Journals - Journals ...~~

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Judgment and Decision Making This is the journal of the Society for Judgment and Decision Making (SJDM) and the European Association for Decision Making (EADM). It is open access, published on the World Wide Web, at least every two months. We have no author fees so far.

Decision Neuroscience addresses fundamental questions about how the brain makes perceptual, value-based, and more complex decisions in non-social and social contexts. This book presents compelling neuroimaging, electrophysiological, lesional, and neurocomputational models in combination with hormonal and genetic approaches, which have led to a clearer understanding of the neural mechanisms behind how the brain makes decisions. The five parts of the book address distinct but inter-related topics and are designed to serve both as classroom introductions to major subareas in decision neuroscience and as advanced syntheses of all that has been accomplished in the last decade. Part I is devoted to anatomical, neurophysiological, pharmacological, and optogenetics animal studies on reinforcement-guided decision making, such as the representation of instructions, expectations, and outcomes; the updating of action values; and the evaluation process guiding choices between prospective rewards. Part II covers the topic of the neural representations of motivation, perceptual decision making, and value-based decision making in humans, combining neurcomputational models and brain imaging studies. Part III focuses on the rapidly developing field of social decision neuroscience, integrating recent mechanistic understanding of social decisions in both non-human primates and humans. Part IV covers clinical aspects involving disorders of decision making that link together basic research areas including systems, cognitive, and clinical neuroscience; this part examines dysfunctions of decision making in neurological and psychiatric disorders, such as Parkinson’s disease, schizophrenia, behavioral addictions, and focal brain lesions. Part V focuses on the roles of various hormones (cortisol, oxytocin, ghrelin/leptine) and genes that underlie inter-individual differences observed with stress, food choices, and social decision-making processes. The volume is essential reading for anyone interested in decision making neuroscience. With contributions that are forward-looking assessments of the current and future issues faced by researchers, Decision Neuroscience is essential reading for anyone interested in decision-making neuroscience. Provides comprehensive coverage of approaches to studying individual and social decision neuroscience, including primate neurophysiology, brain imaging in healthy humans and in various disorders, and genetic and hormonal influences on decision making Covers multiple levels of analysis, from molecular mechanisms to neural-systems dynamics and computational models of how we make choices Discusses clinical implications of process dysfunctions, including schizophrenia, Parkinson’s disease, eating disorders, drug addiction, and pathological gambling Features chapters from top international researchers in the field and full-color presentation throughout with numerous illustrations to highlight key concepts

The intersection between the fields of behavioral decision research and neuroscience has proved to be fertile ground for interdisciplinary research. Whereas the former is rich in formalized models of choice, the latter is rife with techniques for testing behavioral models at the brain level. As a result, there has been the rapid emergence of progressively more sophisticated biological models of choice, geared toward the development of ever more complete mechanistic models of behavior. This volume provides a coherent framework for distilling some of the key themes that have emerged as a function of this research program, and highlights what we have learned about judgment and decision making as a result. Although topics that are theoretically relevant to judgment and decision making researchers are addressed, the book also ventures somewhat beyond the traditional boundaries of this area to tackle themes that would of interest to a greater community of scholars. Neuroscience of Decision Making provides contemporary and essential reading for researchers and students of cognitive psychology, neuroscience, philosophy, and economics.

This introduction just aims to be a fast foreword to the special topic now turned into an e-book. The Editorial "Decision-Making Experiments under a Philosophical Analysis: Human Choice as a Challenge for Neuroscience" alongside with my opinion article "Neurophilosophical considerations on decision making: Pushing-up the frontiers without disregarding their foundations" play the real role of considering in more details the articles and the whole purpose of this e-book. What I must highlight in this foreword is that our intention with such a project was to deepen into the very foundations of our current paradigms in decision neuroscience and to philosophically moot its foundations and repercussions. Normal Science (a term coined by Philosopher Thomas Kuhn) works under a research consensus among a scientific community: A shared paradigm, consolidated methods, widespread convictions. Pragmatically, winning formulas must be kept, although, not at any cost. What differentiates a gifted and revolutionary scientist from a more bureaucratic colleague is the capacity and willingness of constantly reevaluating, depurating and refining his/her own paradigm. That is best strategy to avoid that a paradigm itself would gradually come under challenge. In my view, some achievements, in this sense, were brought about in our project. The e-book will be inspiring and informative for both neuroscientists that are concerned with the very foundations of their works and for philosophers that are not blind to empirical evidence. Kant once said: “Thoughts without content are empty, intuitions without concepts are blind”. Paraphrasing Kant we could say: Philosophy without science is empty, science without philosophy is blind.

Whether the decision is to have unprotected sex, consent to surgery, have an extra piece of pie, or spend rather than save for retirement, risky decisions permeate our lives, and sometimes with disastrous consequences. How and why risk taking occurs has important implications. Yet many questions remain about how neurobiological, psychological, and socio-cultural factors influence decision-making. This book advances basic understanding and scientific theory about the brain mechanisms underlying risky decision by integrating findings from a number of disciplines, including development and cognitive psychology, brain sciences, law, behavioral economic, and addiction. The result is a rich scientific framework for understanding the causal mechanisms of risky decision making across the lifespan. Book jacket.

In the years since it first published, Neuroeconomics: Decision Making and the Brain has become the standard reference and textbook in the burgeoning field of neuroeconomics. The second edition, a nearly complete revision of this landmark book, will set a new standard. This new edition features five sections designed to serve as both classroom-friendly introductions to each of the major subareas in neuroeconomics, and as advanced synopses of all that has been accomplished in the last two decades in this rapidly expanding academic discipline. The first of these sections provides useful introductions to the disciplines of microeconomics, the psychology of judgment and decision, computational neuroscience, and anthropology for scholars and students seeking interdisciplinary breadth. The second section provides an overview of how human and animal preferences are represented in the mammalian nervous systems. Chapters on risk, time preferences, social preferences, emotion, pharmacology, and common neural currencies—each written by leading experts—lay out the foundations of neuroeconomic thought. The third section contains both overview and in-depth chapters on the fundamentals of reinforcement learning, value learning, and value representation. The fourth section, “The Neural Mechanisms for Choice, integrates what is known about the decision-making architecture into state-of-the-art models of how we make choices. The final section embeds these mechanisms in a larger social context, showing how these mechanisms function during social decision-making in both humans and animals. The book provides a historically rich exposition in each of its chapters and emphasizes both the accomplishments and the controversies in the field. A clear explanatory style and a single expository voice characterize all chapters, making core issues in economics, psychology, and neuroscience accessible to scholars from all disciplines. The volume is essential reading for anyone interested in neuroeconomics in particular or decision making in general. Editors and contributing authors are among the acknowledged experts and founders in the field, making this the authoritative reference for neuroeconomics Suitable as an advanced undergraduate or graduate textbook as well as a thorough reference for active researchers Introductory chapters on economics, psychology, neuroscience, and anthropology provide students and scholars from any discipline with the keys to understanding this interdisciplinary field Detailed chapters on subjects that include reinforcement learning, risk, inter-temporal choice, drift-diffusion models, game theory, and prospect theory make this an invaluable reference Published in association with the Society for Neuroeconomics—www.neuroeconomics.org Full-color presentation throughout with numerous carefully selected illustrations to highlight key concepts

This volume explores how and why people make judgments and decisions that have economic consequences, and what the implications are for human well-being. It provides an integrated review of the latest research from many different disciplines, including social, cognitive, and developmental psychology; neuroscience and neurobiology; and economics and business. The book has six areas of focus: historical foundations; cognitive consistency and inconsistency; heuristics and biases; neuroeconomics and neurobiology; developmental and individual differences; and improving decisions. Throughout, the contributors draw out implications from traditional behavioral research as well as evidence from neuroscience. In recent years, neuroscientific methods have matured, beyond being simply correlational and descriptive, into theoretical prediction and explanation, and this has opened up many new areas of discovery about economic behavior that are reviewed in the book. In the final part, there are applications of the research to cognitive development, individual differences, and the improving of decisions. The book takes a broad perspective and is written in an accessible way so as to reach a wide audience of advanced students and researchers interested in behavioral economics and related areas. This includes neuroscientists, neuropsychologists, clinicians, psychologists (developmental, social, and cognitive), economists and other social scientists; legal scholars and criminologists; professionals in public health and medicine; educators; evidence-based practitioners; and policy-makers.

Most decisions in life are based on incomplete information and have uncertain consequences. To successfully cope with real-life situations, the nervous system has to estimate, represent and eventually resolve uncertainty at various levels. A common tradeoff in such decisions involves those between the magnitude of the expected rewards and the uncertainty of obtaining the rewards. For instance, a decision maker may choose to forgo the high expected rewards of investing in the stock market and settle instead for the lower expected reward and much less uncertainty of a savings account. Little is known about how different forms of uncertainty, such as risk or ambiguity, are processed and learned about and how they are integrated with expected rewards and individual preferences throughout the decision making process. With this Research Topic we aim to provide a deeper and more detailed understanding of the processes behind decision making under uncertainty.

In the last two decades there has been a flourishing research carried out jointly by economists, psychologists and neuroscientists. This meltdown of competences has lead towards original approaches to investigate the mental and cognitive mechanisms involved in the way the economic agent collects, processes and uses information to make choices. This research field involves a new kind of scientist, trained in different disciplines, familiar in managing experimental data, and with the mathematical foundations of decision making. The ultimate goal of this research is to open the black-box to understandthe behavioural and neural processes through which humans set preferences and translate these behaviours into optimal choices. This volume intends to bring forward new results and fresh insights into this matter.

Judgment and Decision Making is a refreshingly accessibletext that explores the wide variety of ways people make judgments. An accessible examination of the wide variety of ways peoplemake judgments Features up-to-date theoretical coverage, includingperspectives from evolutionary psychology and neuroscience Covers dynamic decision making, everyday decision making,individual differences, group decision making, and the nature ofmind and brain in relation to judgment and decision making Illustrates key concepts with boxed case studies andcartoons

For the past decade, the U.S. Marine Corps and its sister services have been engaged in what has been termed "hybrid warfare," which ranges from active combat to civilian support. Hybrid warfare typically occurs in environments where all modes of war are employed, such as conventional weapons, irregular tactics, terrorism, disruptive technologies, and criminality to destabilize an existing order. In August 2010, the National Research Council established the Committee on Improving the Decision Making Abilities of Small Unit Leaders to produce Improving the Decision Making Abilities of Small Unit Leaders. This report examines the operational environment, existing abilities, and gap to include data, technology, skill sets, training, and measures of effectiveness for small unit leaders in conducting enhanced company operations (ECOs) in hybrid engagement, complex environments. Improving the Decision Making Abilities of Small Unit Leaders also determines how to understand the decision making calculus and indicators of adversaries. Improving the Decision Making Abilities of Small Unit Leaders recommends operational and technical approaches for improving the decision making abilities of small unit leaders, including any acquisition and experimentation efforts that can be undertaken by the Marine Corps and/or by other stakeholders aimed specifically at improving the decision making of small unit leaders. This report recommends ways to ease the burden on small unit leaders and to better prepare the small unit leader for success. Improving the Decision Making Abilities of Small Unit Leaders also indentifies a responsible organization to ensure that training and education programs are properly developed, staffed, operated, evaluated, and expanded.