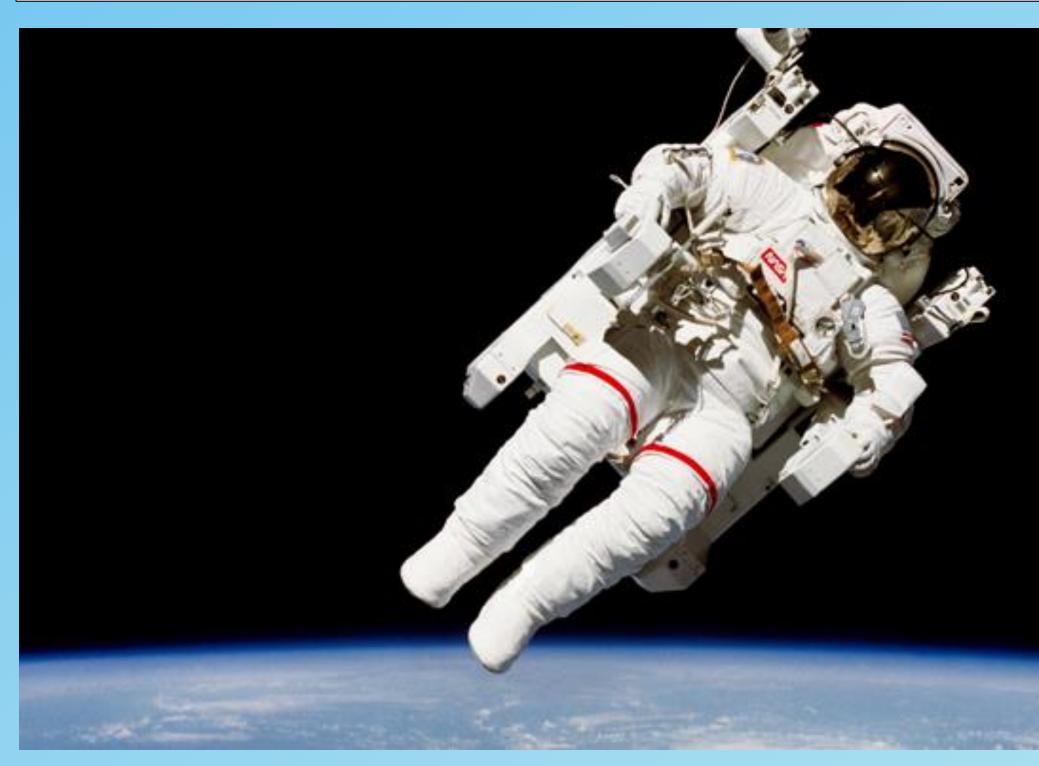


## Why this book now?

Until now, books on decision theory and decision making have primarily come from one of two disciplines –

Psychology or Management Science. Within Psychology, the focus has been on normative and descriptive models. Management Science offers prescriptive mathematical models to determine optimal solutions to real-world practical problems. This book will link these two domains, bridge this gap, and also include related topics.



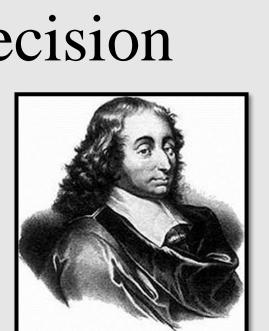
# Decision-Making Foundations in Cognition and Probability by Harvey Langholtz, Ph.D. (I welcome your suggestions, comments, and thoughts. hjlang@wm.edu)



**Section I Prescriptive Models and Foundations of Decision Making Chap 1**: Introduction to Decision Theory and Decision Making

**Chap 2:** Thinking like a gambler: We already intuitively use **∞** 20 decision-making logic and basic 1 to 12 EVEN math without realizing it

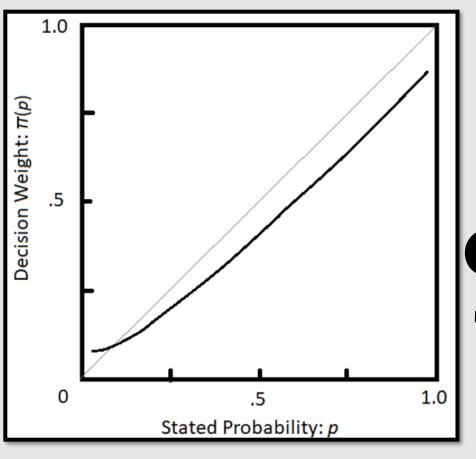
Chap 3: Using decision trees to see through the forest ahead

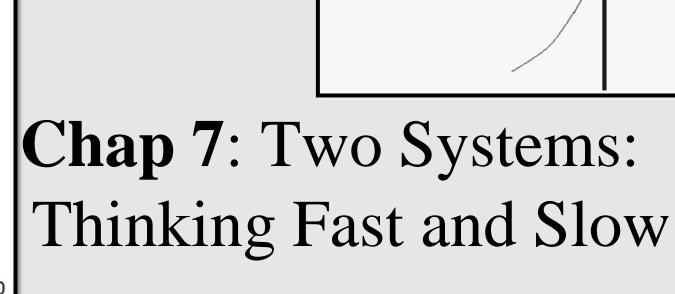


Chap 4: Decision strategies: How to get the most and avoid the worst, no matter what

**Section II Descriptive models** Chap 5: Heuristics: Assumptions and quick rules of thumb we all use – but maybe shouldn't

Chap 6: Prospect Theory

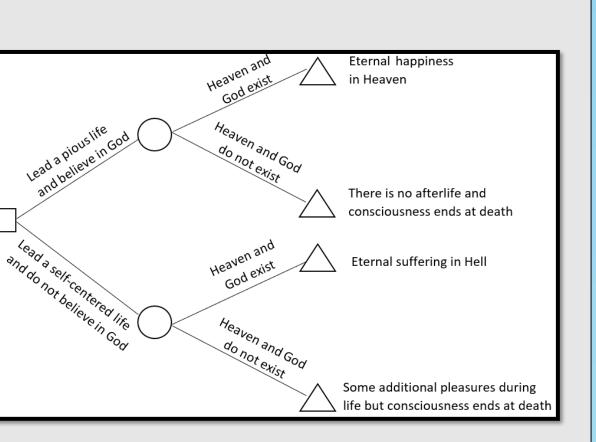


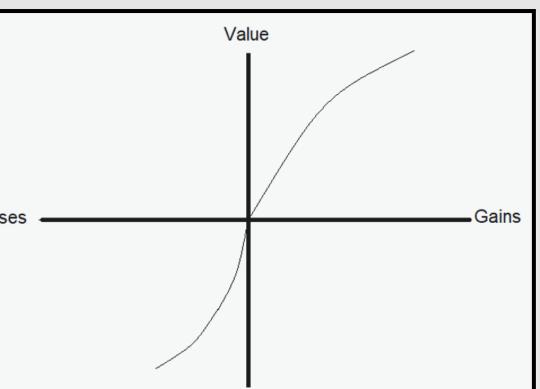


Chap 8: Decisions are made based on our memories. But how reliable are our memories?

**Chap 9**: Behavioral Economics

8	:		19 to 36							
	15	18	21	24	27	30	33	36	2 to 1	
	14	17	20	23	26	29	32	35	2 to 1	
	13	16	19	22	25	28	31	34	2 to 1	
	13 to 24				25 to 36					
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How to detect the important signal against the distracting background, and take action as appropriate

Chap 11: Real-time decision making when speed means everything

world situations

to avoid them

understanding what causes it

decisions using cognition and probability

