应用认知语言学

概念隐喻与意像图式在英语学习中的应用

● 李福印 著

Applied Cognitive Linguistics

Conceptual Metaphor and Image Schemas in English Learnir



国家"985"一期基金资助

应用认知语言学

概念隐喻与意像图式在英语学习中的应用

Applied Cognitive Linguistics

Conceptual Metaphor and Image Schemas in English Learning

李福印 著

中国文史出版社

图书在版编目(CIP)数据

应用认知语言学/李福印 著.一北京:中国文史出版社,2004.12 ISBN 7-5034-1612-2

I.应… II.李… III.认知科学:语言学一文集 IV.H0-53 中国版本图书馆 CIP 数据核字 (2004) 第 141564 号

责任编辑:刘 剑

封面设计: 吴 珊

出版发行:中国文史出版社

社 址: 100811 北京市太平桥大街 23 号

印刷:北京忠信诚胶印厂邮编:110113

经 销:新华书店北京发行所

开 本: 880×1230 1/32

印 张:11 字数:264 千字

印 数:2000册

全套定价: 150.00元 (本册定价: 29.80元)

文史版图书如有印、装错误,工厂负责退换。



享福印(1963-),山东人,北京航 空航天大学外语系教授。作者2002年 干香港中文大学英文系获博士学位, 1994年吉林大学获硕士学位。作者 1997年7月至1998年8月作为教育部 第一批"择优录取"选拔的访问学者, 在新西兰 University of Canterbury 和 University of Otago 两所大学的 语言学系留学深造;于2003年6月至9 月获西班牙University of Malaga海 外优秀科学家研究基金,在该大学哲 学至进行合作研究: 并于2004年6月 至9月获香港中文大学英文系访问学 者资格和资助,在该系进行合作研 究。作者著有《语义学教程》(1999,上 海外语教育业版社),The Acquisition of Metaphorical Expressions, Idioms and Proverbs.(2003,UMI Proquest Company, Michigan, USA), 《隐喻与 认知》(2004,中国文史出版社),《应用 认知语言学》(2004,中国文史业版社) 等著作及30余篇论文。作者2004年被 北京外国语大学聘请为兼职教授。

-		-	2-9-
1	-1	-1	7/1
8	2	\neg	1

丕书日期

Acknowledgements

This book is based on the author's PhD dissertation completed in 2002 in the Chinese University of Hong Kong. The original title is The Acquisition of Metaphorical Expressions, Idioms, and Proverbs by Chinese Learners of English: A Conceptual Metaphor and Image Schema Based Approach, which is now circulated through UMI Dissertation Services (Ann Arbor, Michigan; www.il. proquest.com). To capture the true research nature of this dissertation, I rename the title as Applied Cognitive Linguistics. The book mainly keeps the original version of the dissertation with some errors corrected, and some format changed. As the book form comes into reality, I would like to express my gratitude to all who ever helped me during my PhD journey, especially the following.

First and foremost, my gratitude goes to my thesis supervisors, Dr Joseph Hung and Dr Peter Crisp. Their insightful comments and hours of brainstorming discussions have accompanied me during the whole journey. I am indebted to their great care and patience in reading the thesis draft, and have been influenced by their personal characteristics, especially their kindness, consideration, gentlemanliness, and great sense of responsibility, etc.

I am very grateful to my committee members: Dr George Braine, and Dr Joanna Radwanska – Williams. The current research initially took shape in the "Research Methods" course taught by Dr Braine, and received further

valuable input from Dr Williams, my MPhil supervisor.

The comments from the external assessors, Dr Graham Low from York University and Dr Andrew Goatly from Lingnan University, have helped to make the thesis more readable and comprehensible.

I benefited a lot from the supporting staff of the English department of the Chinese University of Hong Kong. They are Ms CHAN Nellie, Ms CHAN Olivia, Ms WONG Carol, headed by Ms LIANG Tracy.

I am also grateful to the Graduate School of the Chinese University of Hong Kong for providing me with a postgraduate studentship, which enabled me to concentrate on research for 3 years, and for supporting me to attend the "4th International Conference on Researching and Applying Metaphor" (Tunis, 2002), an important conference on metaphor study.

During the experiments, the following teachers generously offered their teaching time for my experiments, they are: Ms Ann Butler, Prof QU Wenjie, Ms Sherrel B. Rowe, BS., Prof WANG Huimin, Prof ZHOU Weining, from the Ocean University of China, PR China; and Ms GAO Hongzhen, Ms JIANG Meina, Prof QI Kuiyi, from Teacher's College of Qingdao University; and around 400 undergraduate students from the above two universities. I thank them all.

A special scholar who supported me in the past over ten years in various ways deserves more than a special thank you. He is professor WU Tieping in Beijing Normal University.

Finally, this book would never have been completed without the unfailing support and love from my wife LI Suying, her love accompanied me during my whole "lonely" journey. This book is a reward to her and my son, LI Mingda.

Preface

In this research, the author argues for an "innovative" approach to the systematic learning of metaphorical expressions, idioms and proverbs, which is conceptual metaphor and image schema based (CM-IS-based). This approach is based on conceptual metaphor theory (Lakoff & Johnson 1980; Lakoff 1993), image schema theory (Johnson 1987), and on the empirical research of Gibbs (1992) and Gibbs et at (1990; 1995; 1997). Drawing on the above research, a hierarchical framework is established, which originates from embodied experiences, and surfaces in linguistic expressions, which include metaphorical expressions, idioms, and proverbs. The hierarchical framework consists of four levels: embodied experiences — image schemas — conceptual metaphors — linguistic expressions (including metaphorical expressions, idioms and proverbs).

Because conceptual metaphors and image schemas have some specific cognitive features, the author claims that both conceptual metaphors and image schemas can facilitate the learning of those linguistic expressions organized by them. Supports for the claim have been identified from the following three sources of evidence: the Dual Coding Theory, the Psychological Reality of Image Schema, and the Psychological Reality of Hierarchical Structure.

The effectiveness of the CM-IS-based approach to the learning of metaphorical expressions, idioms and proverbs is experimentally explored and examined by means of five studies with the participation of four hundred plus

Chinese undergraduate students. Each study consists of a pre-test, a post-test, questionnaires, and a one-week delayed test. The design and the development of the learning materials were informed by cognitive linguistics theories and the subjects' characteristics, including their language proficiency.

In the light of the experimental results, the author discusses the implications of the CM-IS-based approach for ESL/EFL learners' vocabulary learning in general and the learning of metaphorical expressions, idioms and proverbs in particular. The author also explores the potential applications of the CM-IS-based to reading comprehension and literary analysis.

The present research represents a bold attempt to bridge a huge gap between the theoretical study of conceptual metaphors and image schemas in cognitive linguistics on the one hand and the practical applications of such theories in applied linguistics on the other.

Thomas Fuyin LI, PhD
Professor of Linguistics
Department of Foreign Languages
Beihang University (BUAA)
Beijing, P. R. China, 100083
E - mail: thomaslifuyin@hotmail.com

前 言

在本研究中, 作者提出并用实验证实了一种系统学习英语中的隐 喻表达、成语和谚语的方法,即"概念隐喻与影像图式法"。本方法的 理论框架建立在概念隐喻理论 (Lakoff & Johnson 1980; Lakoff 1993), 影像图式理论 (Johnson 1987), 以及 Gibbs 等人 (1990; 1992; 1995; 1997)对成语与谚语和概念隐喻关系的实验研究之上。根据以上研究 和理论,本文首先建立了一个框架结构。本框架根置于身体在外部世 界的经验(embodied experiences),中间有影像图式和概念隐喻两个层 次,最上层为语言表达,包括:隐喻表达,成语和谚语。这一层次结构 为:(根置于身体的经验→影像图式→概念隐喻→语言表达形式:隐喻 表达,成语和谚语)。由于影像图式和概念隐喻所具有的特点,作者提 出二者应该有助于隐喻表达,成语和谚语的系统学习和记忆。这种方 法的有效性进一步得到了如下相关理论的支持:双解码理论,影像图 式的心理真实性和框架结构的心理真实性。为了更进一步在教学中 验证这种方法的有效性和可行性,作者共进行了五组实验。每组实验 包括实验组和对比组。学习材料根据有关理论和学生英语程度精心 设计。学习过程包括学前测试,课堂教学,学后测试,问券反馈,一周 后再测试等五个步骤。共有来自中国海洋大学和青岛大学师范学院 的四百名大学本科一年级和二年级的学生参加了本实验。

实验结论证实:"概念隐喻与影像图式法"是一种系统有效地学习 英语中的隐喻表达、成语和谚语的方法。这种方法的具体运用可以与 阅读理解相结合,并且可以用于文学作品分析。作者充分探讨了该方

法在教学中的具体应用、提出了课堂教学应用实例。

本研究属于"应用认知语言学范畴",旨在运用认知语言学的理论解决中国英语学习者的实际问题。

本书的出版得到北京航空航天大学外国语言文学系出版基金的资助,在此致谢。

李福印

100083 北京航空航天大学外国语言文学系 电子邮件:thomaslifuyin@hotmail.com lifuyin@publicb.bta.net.cn

Table of Contents

Acknowled	lgements $\hspace{1cm} \cdots \hspace{1cm} \cdots \hspace{1cm} \hspace$
Abstract i	n English ····· 🎚
Abstract i	n Chinese V
Chapter 1	Introduction · · · · 1
1.1	Introduction · · · · 1
1.2	The Biggest Problem for Chinese EFL Learners · · · · 1
1.3	The Theoretical Framework
1.4	Methodology 8
1.5	Conclusions and Significance of the Study 9
1.6	The Organization of the Dissertation
Chapter 2	Literature Review of the Acquisition of Vocabulary, Idioms,
	and Proverbs
2.1	Introduction ····· 11
2.2	Some Basic Concepts Concerning Vocabulary Learning
2.	2.1 What does 'vocabulary learning' imply?
2.	2.2 Context
2.	2.3 L2 vocabulary learning and acquisition
2.	2.4 Summary 16

2.3	2.3 Vocabulary Acquisition Research in the Past			
	Thir	ty Years	16	
2.4	A Fr	amework for Reviewing EFL Vocabulary Learning	21	
2.5	Chin	ese EFL Learners' Vocabulary	23	
2.	5.1	An expert view on Chinese EFL learners' vocabulary	24	
2.	5.2	Learners' own evaluation	27	
2.	5.3	A corpus survey on Chinese EFL learners' vocabulary	28	
	5.4	Conclusion	29	
2.6	Voca	abulary Learning Material	29	
2.	6.1	Organization and presentation of learning material	29	
2.	6.2	Clustering words by semantic features	31	
2.	6.3	Conceptual metaphor in expanding lexicon	33	
2.	6.4	Summary	33	
2.7	Voca	abulary Learning Process	34	
2.	7.1	Cognitive qualities of input and their influences		
		on retention	34	
2.	7.2	Level of processing hypothesis · · · · · · · · · · · · · · · · · ·	37	
2.	7.3	Involvement load hypothesis	38	
2.	7.4	Summary	39	
2.8	Voca	abulary Learning Strategies ·····	40	
2.	8.1	Vocabulary learning strategies	40	
2.	.8.2	Keyword mnemonics, rote rehearsal,		
		and semantic processing	42	
2.	.8.3	Summary	43	
2.9	The	Acquisition of Idioms and Proverbs	43	
2.	9.1	The learning of idioms and proverbs	44	
2.	9.2	The cognitive motivation for the meaning of idioms		
		and proverbs	45	
2.	9.3	Summary	47	

Table of Contents

2	2.10	Wha	at the Conceptual Metaphor and Image Schema Based Approach C	`an
		Offe	er to Vocabulary Development/Learning	48
2	2.11		nclusions	49
Chap	ter 3		exposition of a Conceptual Metaphor & Image Schem	
		В	ased Approach	53
3	3.1		duction	53
•	3.2		nical terms	
:	3.3	A Ti	heory of Conceptual Metaphor	56
	3.	3.1	A general classification of metaphor theories	56
	3	3.2	A theory of conceptual metaphor	60
	3	.3.3	Conceptual metaphor links concrete and abstract domains	
	3	.3.4	Summary: conceptual metaphor linking metaphor sets,	
			idioms and proverbs	64
	3.4	The	Theory of Image Schema	65
	3	.4.1	Image schemas are recurring patterns	65
	3	.4.2	The Invariance hypothesis: Image schemas	
			in conceptual metaphors	
	3	.4.3	The major properties of image schemas	69
	3	.4.4	Summary	71
	3.5	Ima	ge Schemas in Lexical Semantic Analysis	72
	3	.5.1	Relations between image schemas and words	72
	3	.5.2	The application of image schemas in lexical semantics	
	3	.5.3	A new way of analyzing lexical meaning: Image schematic	
			feature analysis	
	3	.5.4	Summary	
	3.6		clusions: The Hierarchical Structure	
	3.7	The	Proposed Hypotheses	85

Chapter 4	Th	eoretical Support for the Conceptual Metaphor and Ima	ge
	Scl	hema Based Approach	86
4.1	Intro	duction	86
4.2	Dual	Coding Theory	86
4.2	2.1	Major claims of DCT	
4.2	2.2	Empirical Studies of Concreteness Effects	88
4.2	2.3	A Bilingual Version of "Dual Coding Theory"	90
4.3	2.4	How DCT supports the "Conceptual Metaphor and Image	
		Schema Based Approach"	93
	2.5	Summary	97
4.3	Psyc	chological Reality of Image Schemas	97
4.:	3.1	What is psychologically real?	98
4.	3.2	Behavioral evidence for the psychological reality	
		of image schemas	
4.	3.3	Image schemas as conceptual primitives during infancy 1	.01
4.	3.4	The neurological reality of conceptual metaphor	.03
4.	3.5	Schematic knowledge of spatial diagram representation 1	.04
	3.6	Summary 1	07
4.4	Psyc	shological Reality of Theratement Structures	07
	4.1		07
4.	4.2	Evidence for the psychological reality	
		of merarchical structure	108
4.	4.3	The advantages of meraremear structure	110
4.	4.4	Summary	11
4.5	Con	iclusions	11

Table of Contents

Chapter 5	Methodology: Empirical Support for the Concep	otual
	Metaphor & Image Schema based Approach · · · · · · ·	114
	oduction	114
5.2 Exp	periments on Hypothesis 1	115
5.2.1	Hypothesis 1	115
5.2.2	Materials	116
5.2.3	Methodology	118
5.3 Exp	periments on Hypothesis 2	120
5.3.1	Hypothesis 2	120
5.3.2	Materials	122
5.3.3	Methodology	123
5.4 Exp	periments on Hypothesis 3	124
5.4.1	Hypothesis 3 ·····	124
5.4.2	Materials	124
5.4.3	Methodology · · · · · · · · · · · · · · · · · · ·	126
5.5 Exp	periments on Hypothesis 4	130
5.5.1	Hypothesis 4 ·····	130
5.5.2	Materials	131
5.5.3	Methodology	133
5.6 Exp	periments on Hypothesis 5	137
5.6.1	Hypothesis 5 ·····	137
5.6.2	Materials	139
5.6.3	Methodology	141
5.7 Sum	nmary	143
Chapter 6 T	he Results	144
6.1 Intr	oduction	144
6.2 Res	ults of Hypothesis 1	145

	145
Descriptive comments	146
Conclusion	147
	147
	147
Descriptive comments	148
Conclusion	149
sults of Hypothesis 3	150
	150
Descriptive comments	151
Conclusion	152
sults of Hypothesis 4 ·····	152
The output of SPSS ·····	152
Descriptive comments	154
Conclusion	156
sults of Hypothesis 5	157
	157
Descriptive comments	159
Conclusion	161
nclusions	162
eneral Discussions and Conclusions	165
roduction	165
nceptual Metaphors as Organizers of Metaphorical	
pressions	166
nceptual Metaphors in English and Chinese	168
	The output of SPSS Descriptive comments Conclusion Sults of Hypothesis 3 The output of SPSS Descriptive comments Conclusion Sults of Hypothesis 4 The output of SPSS Descriptive comments Conclusion Sults of Hypothesis 4 The output of SPSS Descriptive comments Conclusion Sults of Hypothesis 5 The output of SPSS Descriptive comments Conclusion Sults of Hypothesis 5 The output of SPSS Descriptive comments Conclusion Conclusion Conclusion Conclusions Conclusion Conclusions Conclusion Conclusions Conclusions

	7.4	Conceptual Metaphors as Motivators in Understanding			
		Idioms and Proverbs	170		
	7.5	Image Schemas in Organizing Metaphorical Expressions			
		and in Motivating Idioms and Proverbs	171		
	7.6	General Discussion on Subjects' Opinions Reflected			
		from Questionnaires	173		
	7.7	Conclusions	176		
Cha	pter 8	Pedagogical Implications & Applications	178		
~	8.1	Introduction	178		
	8.2	Using Conceptual Metaphors and Image Schemas			
		in Extending Lexicon	179		
	8.3	Using Conceptual Metaphors and Image Schemas			
		in the Acquisition of Idioms and Proverbs	184		
	8.4	Using Conceptual Metaphors and Image Schemas			
		in Reading Comprehension	189		
	8.5	Using Conceptual Metaphor and Image Schemas			
		in Literary Analysis	193		
	8.6	Conclusion: Bridging the Gulf between Cognitive			
		Linguistics and Applied Linguistics	196		
Ref	erence	s	201		
Lis	t of A	ppendices ·····	239		
	Appendix 1: Test for Hypothesis 1				
	Appendix 2: Learning Material for Group 1 in Hypothesis 1				
Appendix 3: Discussion Material for Group 2 in Hypothesis 1					
	Appe	endix 4: Learning Material for Group 2 in Hypothesis 1	246		