

## Contents

<b>List of Figures.....</b>	<b>xi</b>
<b>List of Tables.....</b>	<b>xiii</b>
<b>Foreword.....</b>	<b>xv</b>
<b>Abstract.....</b>	<b>xvi</b>
<b>1. Introduction.....</b>	<b>1</b>
1.1 Taxonomy in zooarchaeology: a reconsideration.....	1
1.2 Anthropological approaches to taxonomy.....	1
1.2.1 Formalism: general principles .....	1
1.2.2 Cultural relativism: contextual variables.....	3
1.2.3 Tackling the tension.....	4
1.3 Previous studies on folk taxonomy: from anthropology to archaeology .....	4
1.4 Linnaean taxonomy and taxonomies in ancient China revisited.....	5
1.4.1 Linnaean taxonomy .....	5
1.4.2 Taxonomies in ancient China .....	6
1.5 Problems of cross-reference.....	7
1.5.1 Over-identification and under-identification .....	7
1.5.2 Changeable category .....	8
1.5.3 Animals excluded from Linnaean taxonomy.....	8
1.6 Setting of the book: research question, region and period .....	8
1.7 Research themes.....	11
1.7.1 Etic and emic: two perspectives .....	11
1.7.2 Formalism and relativism: two approaches.....	11
1.7.3 Language and action: two pathways .....	11
1.7.4 Domesticated and wild: two categories.....	12
1.8 Structure of the book.....	12
<b>2. Developing an Archaeological Approach: Materials and Methods .....</b>	<b>13</b>
2.1 Animal categories and archaeological depositions .....	13
2.1.1 Two examples: taxonomic intention and depositional practice.....	13
2.1.2 Structured deposition: definition .....	15
2.1.3 Intentionality .....	15
2.2 Contextual archaeology.....	16
2.3 Zooarchaeological materials .....	17
2.4 Zooarchaeological methods .....	18
2.4.1 Identification and recording.....	18
2.4.2 Quantification .....	19
2.4.3 Reconstruction of data.....	19
Fragmentation.....	19
Age-at-death .....	19
Taxonomic composition .....	20
Body element distribution .....	20
Associated bone group (ABG) .....	20
2.5 Analysis of contexts .....	20
2.5.1 Spatial analysis.....	20
2.5.2 Isotope data.....	21
2.5.3 Lexical indication and written record.....	21
2.6 Summary .....	21
<b>3. Central China from the Late Neolithic to the Early Bronze Age: an Archaeological Background.....</b>	<b>23</b>
3.1 Archaeological information.....	23
3.1.1 Late Longshan period.....	23
3.1.2 Xinzhai period .....	24

3.1.3 Erlitou period.....	25
3.1.4 Erligang period.....	26
3.1.5 Research period: an overview .....	27
3.2 Archaeological interpretation: terminology and approach.....	28
3.2.1 Dynasty and historiographical tradition .....	28
3.2.2 Civilisation and nationalism.....	29
3.2.3 State and neo-evolutionary models .....	29
3.2.4 Relational studies: an alternative.....	29
3.3 Animals at the archaeological sites .....	30
3.3.1 Deer ( <i>Cervidae</i> ).....	30
3.3.2 Dog ( <i>Canis lupus familiaris</i> ).....	30
3.3.3 Pig ( <i>Sus scrofa domesticus</i> ).....	30
3.3.4 Cattle ( <i>Bos taurus</i> ) .....	31
3.3.5 Sheep and goat ( <i>Ovis aries</i> and <i>Capra hircus</i> ).....	31
3.3.6 Horse ( <i>Equus ferus caballus</i> ) .....	32
3.4 Animal images in artifacts.....	32
3.5 Beastly question and domesticated scholarship: a summary .....	33
<b>4. Animal Classification at Wadian.....</b>	<b>35</b>
4.1 Wadian: site introduction .....	35
4.1.1 Chronology and phasing.....	35
4.1.2 Spatial layout and feature types.....	36
4.1.3 Archaeological assemblages.....	37
4.2 Previous zooarchaeological studies.....	37
4.3 Results .....	38
4.3.1 Fragmentation.....	39
4.3.2 Body element distribution .....	40
4.3.3 Age profile .....	42
4.3.4 Presence of human bones .....	42
4.3.5 Pig-deer index.....	43
4.3.6 Associated bone group.....	44
4.3.7 Scatter plot of combination of two variables.....	45
4.4 Discussion .....	45
4.4.1 Area themes .....	45
4.4.2 Site formation processes.....	48
4.4.3 Temporal change of category .....	49
4.4.4 Spatial association between pig and longhouse .....	49
4.4.5 Subdivision within ‘pig’ category .....	50
Age binary classification .....	50
Domesticated versus wild.....	51
Cross-classification of pig .....	51
Animal individual versus animal product.....	52
4.5 Summary of animal categories at Wadian.....	52
<b>5. Animal Classification at Wangchenggang.....</b>	<b>53</b>
5.1 Wangchenggang: site introduction .....	53
5.1.1 Chronology and phasing.....	53
5.1.2 Spatial layout and feature types.....	54
5.1.3 Wangchenggang and its regional network.....	58
5.2 Previous zooarchaeological studies.....	58
5.3 Results .....	59
5.3.1 Animal taxa.....	59
Pig.....	59
Deer .....	62
Sheep .....	62
Cattle.....	63
Other mammals .....	63
5.3.2 Presence of human bones .....	63
5.3.3 Fragmentation.....	64

5.3.4 Body element distribution .....	65
5.3.5 Associated bone group.....	65
5.3.6 Age profile .....	65
5.3.7 Bone modification .....	67
5.3.8 Type of deposition .....	69
Multi-skeleton-increment deposition.....	69
Formal tomb .....	69
Refuse deposition .....	71
5.4 Discussion .....	71
5.4.1 Animal exploitation and classification .....	71
5.4.2 Age as a classificatory filter.....	72
5.4.3 Subgroups of human being.....	73
5.5 Summary of animal categories at Wangchenggang .....	74
<b>6. Animal Classification at Xinzhai.....</b>	<b>75</b>
6.1 Xinzhai: site introduction .....	75
6.1.1 Chronology and phasing.....	76
6.1.2 Spatial layout and feature types.....	77
6.1.3 Xinzhai site and its regional network .....	79
6.2 Previous zooarchaeological studies.....	80
6.3 Results .....	80
6.3.1 Animal taxa.....	80
Pig.....	81
Deer .....	81
Cattle.....	81
Sheep and goat.....	82
Other non-human mammals .....	82
Human .....	82
6.3.2 Body element distribution .....	82
6.3.3 Age profile .....	84
6.3.4 Associated bone group.....	86
6.3.5 Type of deposition .....	86
Layer and feature depositions.....	86
Internal and external depositions.....	87
Young and adult depositions.....	90
Type of deposition .....	91
6.3.6 Summary of isotope data.....	91
6.4 Discussion .....	93
6.4.1 Exploitation of animal resources.....	93
6.4.2 Status of deer .....	94
Manipulation of deer .....	94
Purposes of manipulation .....	95
Hunting and deer category.....	96
6.4.3 Age as a classificatory filter.....	97
6.4.4 Classification of animals and spaces .....	98
Spatial layout and area themes .....	98
Categorical separation and conceptual segregation.....	98
6.5 Summary of animal categories at Xinzhai .....	100
<b>7. Animal Categories: a Synthesis.....</b>	<b>101</b>
7.1 Human versus non-human classification.....	101
7.2 Age categories .....	101
7.2.1 Age classification and chronological change.....	101
7.2.2 Age classification and depositional context.....	102
7.2.3 Age classification, language and ancient texts .....	102
7.2.4 Age classification: consequences and correlates .....	103
7.3 Domestic-versus-wild division.....	104
7.3.1 Etymological history of <i>jia</i> 家 and <i>ye</i> 野 .....	105
7.3.2 Expansion and intensification of <i>jia</i> 家 .....	105

7.3.3 Structure of <i>jia/ye</i> 家 / 野 opposition .....	106
7.4 A glimpse beyond China .....	107
7.5 Summary .....	108
<b>8. Conclusions.....</b>	<b>109</b>
8.1 Research methodology recapitulated .....	109
8.2 Animal classification reinterpreted.....	109
8.3 Research themes revisited .....	109
8.3.1 Etic and emic .....	110
8.3.2 Language and action.....	110
8.3.3 Domesticated and wild .....	111
8.4 Future studies and intellectual reflections.....	111
8.4.1 Taphonomy .....	111
8.4.2 Inter-regional variation.....	112
8.4.3 Animal imagery .....	112
8.4.4 Integrating plants and animal remains.....	112
8.4.5 Past for the present .....	113
<b>Bibliography .....</b>	<b>115</b>