What’s Wrong with the Study of China/Countries

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Abstract

In this paper¹ the thesis is submitted that there is something fundamentally amiss in Western Sinology (Zhōngguóxué, as distinct from Hànxué, which is a kind of old-fashioned philology): ‘China experts’ either pretend to be knowledgeable about everything related to China, in which case they cannot be taken seriously, or—eventually—admit not to be scientific all-rounders with respect to the country, in which case they cannot be called ‘China experts’. The author expects no tenured professor of Chinese Studies/History to share this view. Having exposed the weakness, indeed the scandal of old-style Sinology, he also points out the way junior Sinologists should go. The fork in that road is two-pronged: translating or collaborating.

Keywords: Sinology, area/country studies, complexity, scientific collaboration, e-research

Izvleček

V tem članku avtor predstavi tezo, da je nekaj bistveno narobe v zahodni sinologiji (Zhōngguóxué, za razliko od Hánxué, ki je nekakšna staromodna filologija): »Kitajski strokovnjak« se bodisi pretvarjajo, da so dobro obveščeni o vsem v zvezi s Kitajsko, in v tem primeru jih ni mogoče jemati resno, ali pa na koncu priznajo, da niso vsestransko znanstveni o državi, in jih v tem primeru ne moremo imenovati »Kitajske strokovnjake«. Avtor pričakuje, da nihče od univerzitetnih profesorjev kitajskih študij ali kitajskie zgodovine ne deli tega stališča z njim. Z izpostavljenostjo šibkosti, kar je škandal za sinologijo starega sloga, opozarja tudi na pot, po kateri naj bi šli mladi sinologi. Na tej poti sta dve smeri, in sicer prevajanje ali sodelovanje.

Kljucne besede: sinologija, področne študije/študije držav, kompleksnost, znanstveno sodelovanje, e-raziskovanje

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¹ The substantially longer, heavily annotated version, entitled ‘Uplifting the Study of China’, can be downloaded for free at the website of Academia.edu. With the article ‘Is Sinology a Science?’ (Kuijper 2000) we attempted the ball to start rolling. After the falling of our advice on deaf ears, however, we found solace in Seneca’s saying: Silentium videtur confessio.
Introduction
To mark its 50th anniversary, in April 2003, the Institute of International Relations, a think tank affiliated with the National Chengchi University, in Taipei, published a double issue of its flagship journal Issues & Studies on “The State of the China Studies Field”. The reasons given for this laudable initiative were: a) “the major jump in both data output within China and access to this data by scholars from outside the PRC”, and b) “the dramatic increase in the number and types of individuals analyzing China”. However, the reader who expects to find a critical assessment of how China has been studied will be disappointed. The (mainly Western) contributors to the special issue ignore the elephant in the room. None of them is brave enough to ask the key question: of all the Western scholars having occupied themselves with the “curious land” (David Mungello), who has really been in the business of “analyzing China”, qua China? We think the sad answer to this perfectly legitimate question is: nobody has! Let us explain.

The Study of China Evaluated
Sinologists—taken as such (students of China) and, we wish to stress, not taken as, e.g., literary students engaged in the study of Chinese literature, or economists specialising in the Chinese economy—share a common interest in China, just as Japanologists share a common interest in Japan (and Sovietologists shared a common interest in the erstwhile Soviet Union). However, Sinology—and the same holds, mutatis mutandis, for any other country study—is not defined by the perspective on the object of inquiry (China) but by the object itself. ‘China students’ (not: Chinese students!) have no tidy description of their enterprise; they have no “research programme” (Imre Lakatos). Describing the scientific discourse is a prerequisite for meaningful exchange of ideas, but this requirement seems to have slipped from memory in the China debate. As a result, quite a bit of ambiguity has spread, which in turn has led to murky results. Sinologists are not in search of ordered/systematised knowledge of China qua China. Consequently, they do not see the structure of the country, its tapestry, its Gefüge, the intimate, evolving connections between its components, the features that determine its look and feel, the whole that differs from the sum of its parts. Nor do they see the
change pattern (*Wandlungsstruktur*), the relations between the transformations of the compound (the country).

‘China scholars’ do not really conceive of the enormous mass of things Chinese as belonging together, as constituting *one* thing. Having a material object, an *explanandum* (China), they do not have a formal object, an *explanans* (Sinological viewpoint), a fact they conveniently forget, try hard to gloss over, or do not like to be reminded of. Sinologists have not developed a domain ontology; they have no command of a body of theoretical concepts that would put them on the same footing as, but differentiate them from, linguists, literary students, demographers, geographers, archaeologists, law students, psychologists, sociologists, anthropologists, economists or political scientists, professionals who increasingly collaborate in international and—more important—interdisciplinary projects. The cosmos, the earth, the biosphere, man, language and society are the material objects studied by cosmologists, geologists, biologists, anthropologists, linguists and sociologists respectively. Sinologists, however, are holding their own territory but do not have their own theory. There is no Sinological counterpart of Franz Boas, Noam Chomsky, Ferdinand de Saussure, Georges Dumézil, Émile Durkheim, Ronald Dworkin, Mircea Eliade, Henri Fayol, Northrop Frye, Clifford Geertz, Erving Goffman, Torsten Hägerstrand, Herbert Hart, Leonid Kantorovich, John Maynard Keynes, Philip Kotler, Claude Lévi-Strauss, Kurt Lewin, Yuri Lotman, Erwin Panofsky, Jean Piaget, Adolphe Quételet, John Rawls, Carl Ritter, Georg Simmel, Herbert Simon, Ninian Smart, Herbert Spencer, Jonathan Turner, Ludwig von Bertalanffy, Léon Walras, Max Weber or Wilhelm Wundt.

*The* way of finding out whether Sinologists really are what they pretend to be (experts on China) is making inquiries about how comfortable they are with quantitative reasoning and information technology, about their familiarity with the mixed methods research, about their nomenclature (the key terms of their debate), about the property of the relations between their master concepts, about the underlying assumptions of their argument, about the kind and number of hypotheses they have framed, about the *Grundstein* and *Gipfel* of their conceptual *Gebäude*, about the core subject (*problématique*) of their discipline, about the landmarks/milestones in its history, or about the central point that assures its unity. Such a point would be a ‘black hole’, *eine grundlegende Aporie*, like the relationship between the continuous and the discrete in mathematics, between spacetime and matter in physics, between body and mind in psychology, between man and society (*Mitwelt*) in sociology, between positive and moral law in legal
theory, between efficiency and justice in economics, or between organisms and their natural environment (Umwelt) in ecology.

‘China experts’ have a keen eye for details but do not let them speak as parts of a whole. They do not have an architecture for organising the details, for presenting them into an intelligible system. Their writings excel in multitude rather than plenitude, in multa instead of multum (Pliny). We are provided with an aggregate but not with a whole, with a heap of stones (a few segments at most) but not with a well-founded and well-structured house, i.e. with a model representing China in and of itself, as a complexity of coupled human and natural systems.\(^2\)

The mosaic, the score, the wiring of the country is not given. “The one is not shown in the many and the root is not connected with the twigs” (一不显于多，本不贯于末). To be sure, the plures are insignificant so long as the unum is elusive. For “Im Aufbau des Ganzen werden die Züge erst bedeutend“ (Goethe). In order to comprehend something, it is crucial to be able to see the ordinary in the extraordinary (type-token distinction).\(^3\) Not having their own model, and mistaking the cramming of facts for discernment in selecting the important ones, Sinologists are, therefore, not entitled to wear the sacred mantle of science, the hallmark of which is empirically and theoretically founded, systematised knowledge.

‘China students/scholars/experts’, taken literally, are undisciplined academics, dabbling in Chinese language, culture and history, but unable to point out the endogenous and exogenous variables of their research, let alone the (form of the) relations prevailing among them. Their publications, displaying breadth of scholarship rather than depth of insight, contain copious footnotes but a rigorous, sustained and substantive argument is difficult to find. Nobody knows whether their investigations suggested, or were guided by, a Sinological theory. Labouring through their (sometimes aggressively marketed) books, one feels like looking at the stars in company of an amateur astronomer, who keeps on pointing at objects

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\(^2\) There are iconic, analog, animal, verbal, symbolic, data-based, theory-based, and computational models. Visit [http://en.wikipedia.org/wiki/scientific_modelling](http://en.wikipedia.org/wiki/scientific_modelling) and see Rose and Abi-Rached (2013, 92–102). Though models are always wrong (because the real world is more complex), modelling, i.e. approximating, is the essence of scientific labour. Models can be integrated; see Gray (2007, Preface). Metamodels, which are closely related to ontologies, highlight the properties of models; see Caplat (2008). Model theory forms an integral part of mathematical logic, which is an important subfield of mathematics and should be distinguished (but not separated) from philosophy of mathematics, which lies at the deep end of epistemology and its twin brother, metaphysics.

in the sky—without a powerful telescope, without any attempt to reduce the incomprehensible multiplicity of the universe to a comprehensible simplicity, to design a theory, that is. To be convinced of this, the reader should open a volume of *T'oung Pao*, “the foremost journal on Sinology, covering history, literature, art, history of science, in fact, almost anything that concerns China”.

The study of China in the West has a long history, but a coherent scheme of basic concepts concerning China *qua* China has never been developed, the meaning of which can only be: the country, now rapidly moving to centre stage (economically, politically, and—the West fears—militarily), has never been truly analysed. It has been variously (and wildly) speculated but never really theorised about. A host of distinguished scholars has amassed facts and figures about (pre)Imperial, Republican and Communist China, but none of them seems to have attempted to reduce the incomprehensible multiplicity of this universe to a comprehensible simplicity. *Monumenta Serica*, another important scholarly journal, founded in 1934 and devoted to China, runs into 61 volumes, with an average of more than 500 pages, but features no article on the foundations/underpinnings of sinology. *Principia Sinologica* is the title of a book yet to be written.

The study of China belongs to the fuzzy category of ‘area studies’, the numerous practitioners of which seem to believe they can do without a textbook comparable to, say, Samuelson and Nordhaus (2009), Rita Atkinson et al (1999), or Heywood (2007). Basically disoriented, they still have to get their act together by organising themselves, as the members of the International Geographical Union (IGU) and the International Union of Anthropological and Ethnographical Sciences (IUAES) did. There is urgent need for an international journal devoted to the history, theory, methodology and philosophy of area/country studies, that stranger among the academic disciplines.

**Countering Likely Objections**

It may be objected that China is a country *sui generis*, and that notions having their origin in the West are not applicable to it, all the more so because the connotations and denotations of the words concerned have changed in the course of time. The central proposition of those who adopt this relativistic attitude is that China must be understood from within. Indigenous terms such as *cheng* (诚), *dao* (道), *de* (德), *di* (谛), *fa* (法), *gong* (公), *gu* (故), *jing* (敬), *jue* (觉), *kong* (空), *li* (理),...
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Hans KUIJPER: (礼, 理), ling (灵), mei (美), ming (命), pin (品), qi (奇, 气), quan (权), rang (让), ren (仁), shan (善), shen (神), (圣), shi (势, 是, 实), shu (恕), ti (体), tian (天), tong (通, 同), wen (文), wu (无), xin (心, 信), xing (性), xu (虚), xue (学), xuan (玄), yi (一, 义, 艺), yong (用), you (有), yu (宇), yuan (缘), zhen (真), zhi (致, 知, 智), zhong (中, 忠) and zhou (宙) should be the analytical categories, and scholarly research should be presented within their framework. China can never be understood from without, a conviction upheld by the Chinese themselves, particularly by those having a strong sense of nationalism. However, this line of reasoning cannot be taken without some qualifications:

Firstly, bringing out different translations of the same indigenous term, Sinologists come under the suspicion of simply not knowing what they are talking about. On this account, the reader should compare Feng (1953) with Cheng (1997), Cheng and Bunnin (2002), Cua (2003), Jullien (2007), Lai (2008), Zufferey (2008), Mou (2009) and Fraser (2014). For example, ti (体) is confusingly rendered into “substance”, “body”, “model”, “style”, “principle”, “method”, “genre”, “essence”, “form”, “trend”, “nature”, “unity”, “noumenon”, “vigour”, “reality”, “foundation”, “constitution”, “constitutivité”, and “bone-structure”. Rendering ti into, say, “substance” is to overlook a fundamental difference between the Western and Chinese way of thinking. Whereas philosophy in the West, since Aristotle, has been biased in favour of “substance” (what a thing really is, without its accidental properties), Chinese educated in the wisdom of the Yijing and the Daodejing conceive of everything as something “all the time on the way to be something else” (Needham). Taking a dynamic/evolutionary perspective (strongly reminiscent of Whitehead’s Process and Reality), they consider everything/everybody as fundamentally changing over time instead of existing at some time. Where Westerners would say “yes” or “no”, Chinese, reluctant to embrace the “law of excluded middle”, reasoning “non-monotonically” and going beyond the “square of opposition” (Béziau and Gan-Krzywoszynska 2014), are likely to answer: “Well, not exactly”. They are alien to the philosophical concept of ontology and never engaged in a discussion about the distinction between esse/existentialism and essence/essentialism. They see relations as being essential (reality). They emphasise context and situation, mutuality and relationality (guanxi), because, in their view, being is belonging, esse est inter-esse (being-in-between), spatially, temporally, socially or otherwise. For them, individuals/entities are intersections/nodes of relationships. Chinese have difficulty in understanding Plato’s dialogue
Phaedrus, in which Socrates speaks, without fatuous redundancy, of the superlative reality of the forms as “really real reality”. The theological doctrines of “consubstantiality” and “transubstantiation”, over which so much ink and blood were spilt in the West, are beyond them, because they fail to see the (importance of the) difference in meaning between homoousios (of same substance) and homoiousios (of similar substance). In contrast to Westerners, who have been deeply influenced by, and are only just beginning to distance themselves from, the Aristotelian-Cartesian-Newtonian preference for causal/serial/catenary thinking (events/actions are concatenated), Chinese have been emphasising the importance of web-like/matrical/structure-related thinking (events/actions are multidirectionally interwoven). They are geared to the “whatness” instead of the “thatness” of things. They are not disposed to the Western logic of identity (logocentrism). In their view, and in (Buddhism-inspired?) Derrida’s view, difference (otherness) is prior to, and a condition of, identity (sameness); it is not itself identifiable.

Concepts constitute the building blocks of man’s thinking and galvanise him into action; they form, subtly interconnected, the fabric of his life. Consequently, as long as some important notions and their cognates remain vague, others must share this defect, making human thought and behaviour elusive. The requirement not to be vague about ideas that have been most potent and persistent in Chinese history is thus paramount. Though the argument about “meaning” continues (especially among philosophers), with the Siku Quanshu (Emperor Qianlong’s library, counting about 840,000,000 characters) now electronically accessible and various types of computer software available, a thorough investigation of the interconnected concepts basic to Chinese thinking through the ages has been greatly facilitated, a plain fact some ‘China experts’ do not seem to be aware of.

Secondly, epistemic relativism, the view that the truth of knowledge-claims is relative to the standards a society/culture uses in evaluating such claims, is an incoherent doctrine, unable to defend itself, because, if it is right, the very notion of rightness is undermined, in which case epistemic relativism itself cannot be right. However, if the relativistic stance is untenable, the non-relativist (universalist) also faces a tall problem: how to develop a view that includes an acceptable account of rationality and rational justification which is non-dogmatic, rejects any notion of a privileged framework in which knowledge-claims must be couched, and is self-referentially coherent (Krausz 2010). Universalists tend to be ethnocentric, arrogant and intolerant. We disagree with the relativist, who maintains that culture-bound disciplines are blocking our ability to understand
another country, but we also have a different opinion from the universalist, who
denies this.

The “emic-etic debate” among cultural anthropologists revolves around the
question whether an account of actions should be given in terms that are
meaningful to the actors belonging to the culture under study, or in terms
applicable to actions in other cultures as well. Whereas the emic perspective
focuses on intrinsic distinctions, only meaningful to the members of a given
society, the etic view relies upon the extrinsic concepts and categories of scientific
observers. This contradiction seems to be mistaken, for the points of view can be
reconciled. A sensible combination of the emic and the etic lens yields a binocular
vision, making depth perception possible (Kuijper 2014).

The fact that the great bulk of the ordered knowledge of social and human
scientists is only based on the investigation of Western data does not imply the
impossibility of cross-cultural dialogue, being a process in which the parties
gradually learn to understand each other. The Okanagan (syilx) people, living in
British Columbia and Washington (State), call this en’owkin, understanding
through a gentle process of clarification and integration. A dialogue is not a debate.
The former is geared to reaching an agreement (consensus), the latter to scoring a
victory (meaning: somebody else’s defeat!); the one aims at inclusion, the other at
exclusion. In an “authentic dialogue” (Gadamer) the participants do not talk at
cross-purposes (dialogue de sourds) but actively listen to each other; rather than
being bent on proving themselves right, they are eager to gain insight. A dialogue,
or saṃvāda (Mayaram 2014), being a real, genuine conversation, will inevitably
lead to comparing (not to be confused with equating), to the placing together and
examining of two things in order to discover similarities and differences, an
activity that plays a crucial role in every scientific discipline. And this comparing
(which should never be the comparing of an ideal situation here with the messy
reality there!) may result in a change of mind, a mental leap, a conceptual re-
configuration.

It may also be objected that after the Second World War Sinology split into
specialisms, making the jacks-of-all-trades-but-masters-of-none with regard to
China a dwindling species. We think this assertion is to be taken cum grano salis.
The change from ‘China study’/‘Chinakunde’ to ‘Chinese studies’/‘China-
wissenschaften’, or “Sinologie als eine willkürliche Ansammlung von
Einzelfächern” (Hans-Wilm Schütte), has not improved the situation. On close
inspection, many so-called experts, focusing on one or another aspect of China, turn out to be amateurs only—sometimes gifted amateurs, able to express their ideas and opinions well, but non-professionals nonetheless.

What is necessary here is to “rectify names” (zhengming). For Confucius said: “If names are incorrect, language is not in accordance with the truth of things, and if language is not in accordance with the truth of things, affairs cannot be carried on to success” (Lunyu, Book XIII, Chapter 3). ‘Professor of Chinese’ doesn’t make sense (not any more than ‘professor of life’, ‘professor of man’, or ‘professor of society’ does), unless this appellation of distinction is shorthand for “professor of linguistics with principal research interest in the Chinese language, or linguistics in China”.

In much the same vein, we doubt whether every ‘professor of Chinese literature’ can be safely assumed to hold an academic degree in literary studies. ‘Lecturer/reader in Chinese economics’ will not do either, for Chinese economics is a nonexistent subject matter. To be sure, Chinese economists lecturing on the economy of, or the application of economic theory in, China (or another country) do exist. There are Chinese, Japanese, American, Indian, Arabic, Russian, European and Australian logicians, mathematicians, scientists and philosophers, some of them being of very high caliber, but there cannot in reality be such things as Chinese, Japanese, American, Indian, Arabic, Russian, European and Australian logic, mathematics, science or philosophy, a major point many Sinologists/area-students, muddle-headed about the subject they are writing on, seem to overlook.

Many ‘China experts’, acknowledging the impossibility of being a scientific all-rounder in regard to the country, have the bad habit of putting on the hat of a scientist without filling his shoes, that is, the habit of delivering lectures on the Chinese language, communication style, literature, legal system, political system, military system, educational system, health care system, financial system, economy, agriculture, energy sector, transportation sector, business activities, society, art(s), religion(s), psyche, culture or environment without any degree in linguistics, communication studies, literary studies, law, political science, military science, educational science, medicine, (corporate, public or international) finance, economics, agronomy, energy science, transportation studies, business administration, sociology, art history/criticism, science(s) of religion, psychology, Kulturwissenschaft(en) or ecology/sustainability science respectively. Only a few ‘China experts’ have taken the trouble to obtain a degree in any of the disciplines
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mentioned before ascending the pulpit. However, lecturing on a subject that lies within their purview, they often stray into forbidden domains—without duly notifying their credulous audience.

More, much more interesting things could be written on, for example, the concept and practice of law in China if, paradoxically, the authors were also well up in the writings of Plato, Cicero, Aquinas, Suárez, Althusius, Grotius, Hobbes, Pufendorf, Montesquieu, Cesare Beccaria, Jeremy Bentham, John Austin, Henry Maine, Oliver Wendell Holmes, Otto von Gierke, François Gény, Roscoe Pound, Benjamin Cardozo, Giorgio Del Vecchio, Gustav Radbruch, Hans Kelsen, Carl Schmitt, Karl Llewellyn, Herman Dooyeweerd, Alf Ross, Lon Fuller, Patric Devlin, Herbert Hart, Julius Stone, Norberto Bobbio, Harold Berman, John Rawls, Joel Feinberg, Ronald Dworkin, Joseph Raz, Richard Posner, John Finnis, Duncan Kennedy, Robert Alexy, Roberto Unger, Jeremy Waldron, Ernest Weinrib, Dennis Patterson, and Andrei Marmor, among others.

Similarly, books, or articles, about ‘Chinese art’ would tremendously gain in importance if, in a way that only seems to be contradictory, the writers thereof were acquainted with the aesthetic views of Plato, Aristotle, Plotinus, Brunelleschi, Alberti, Hume, Baumgarten, Winckelmann, Kant, Burke, Lessing, Schiller, Hegel, Coleridge, Schopenhauer, Kierkegaard, John Ruskin, Nietzsche, Heinrich Wölflin, Benedetto Croce, Clive Bell, Collingwood, Erwin Panofsky, Walter Benjamin, Roman Ingarden, Susanne Langer, Hans-Georg Gadamer, Theodor Adorno, Harold Osborne, Nelson Goodman, Maurice Merleau-Ponty, Ernst Gombrich, Clement Greenberg, Mikel Dufrenne, Monroe Beardsley, Richard Wollheim, Frank Sibley, Arthur Danto, Joseph Margolis, George Dickey, Stanley Cavell, Jacques Derrida, Roger Scruton, and Noël Carroll, among others.

A mature science consists of several subdisciplines. The workers in these special vineyards occupy themselves with a part without losing sight of the whole (see note 3). Biology, for example, deals with living things at different levels in the biosphere (as distinct from the litho-, hydro-, atmo- and noösphere). Its growth was triggered by a division of labour. Zoologists are interested in animals, ethologists in their behaviour, botanists in plants, mycologists in fungi, phycologists in algae, and microbiologists in bacteria and viruses. Here the ramification does not stop. Mammalogists are concerned with mammals, entomologists with insects, carcinologists with crustaceans, arachnologists with spiders and their relatives, ornithologists with birds, ichthyologists with fishes,
malacologists with molluscs, and herpetologists with reptiles and amphibians. The point is that, despite their apparent differences, all the divisions and subdivisions are interrelated; mother, daughters and granddaughters are akin. The splitting of biology into specialisms has been guided by the same principles. There may be differences in dialect, the language spoken is the language of biologists, “cell” being the key concept. After World War II, Sinology also started to diversify. By any stretch of the imagination, though, we cannot see how the subgroups thereof form a family; there is no intellectual kinship, no scientific lineage, no academic genealogy. The new style ‘China experts’ have nothing in common, in a distinctively scientific manner, that is. They still have no command of a characteristic network of basic notions related to China. There is an endless stream of books and articles ‘about China’, but there is no real Sinological debate. There are no schools of Sinological thought (comparable to schools of thought in political science, law, IR theory, psychology, learning theory, sociology, cultural anthropology, linguistics, literary theory, economics, or philosophy), simply because there is no Sinological language, a remarkable fact that seems to have gone unnoticed.

The claimed post-war “split of Sinology into specialisms” is a case of deceptive appearances. Books giving a general picture of China keep on rolling from the press, books not written by reporters, whose unscientific modus operandi may be excusable, but by tenured professors and those behind them. Whoever believes that the all-rounders in respect of China are dead and gone is grossly mistaken. The touche-à-tout sans profondeur is still around; the jacks-of-all-trades-but-masters-of-none (or: only-one) are still alive and kicking. Some of these all-purpose China scholars do not even shrink from predicting the country’s future, clearly unaware of the nonlinear-science revolution of the 1970s, that emphasised the certainty of uncertainty and led to a redefinition of causality. If pretending to be, or making no objection to be introduced as, an expert on some aspect of China, without a degree in the discipline concerned, is reprehensible, downright unforgivable is it to make no bones about changing bonnets and to masquerade as connoisseur of China tout court. Those who are guilty of doing so (one only needs to watch the programme “Fareed Zakaria GPS” on CNN) corroborate Alexander Pope’s statement: ‘Fools rush in where angels fear to tread’.
The Way Ahead

What is to be done (Что делать)? Advising ‘China experts’ to go home and to look for another job is certainly not what we are thinking of. For one shall not throw the baby out with the bath water. Sinologists are (we hope) fluent in classical and modern Chinese. So, first and foremost, let them cultivate their talent! There are plenty of books eagerly awaiting translation.

Over the last 150 years or so, numerous books belonging to any of the four categories into which Chinese bibliographers traditionally put their sources, viz “classics” (jing), “history” (shi), “philosophy” (zi), and “literature” (ji), have been translated into a European language. However, not every author who has participated in the great Chinese conversation about the basic principle of order (in nature and society) has found a translator of his work, the assiduity and diligence of Édouard Biot, Cyril Birch, Édouard Chavannes, Séraphin Couvreur, Robert des Rotours, Homer Dubs, Jan Duyvendak, Alfred Forke, Esson Gale, Olaf Graf, David Hawkes, James Hightower, Wilt Idema, Wallace Johnson, David Knechtges, John Knoblock, Franz Kuhn, James Legge, Victor Mair, Göran Malmqvist, Georges Margouliès, Richard Mather, William Nienhauser, Max Perleberg, Rainer Schwarz, Nancy Lee Swann, Erwin von Zach, Arthur Waley, Burton Watson, Stephen West, Richard Wilhelm, Martin Woesler and other translators notwithstanding.

Remarkably, there is no translation of the Great Books of the Chinese World comparable to the Great Books of the Western World. The latter, published by Encyclopædia Britannica, Inc., is a set of 60 volumes containing 517 works (by 130 authors) in mathematics, physical sciences, life sciences, social sciences, history, philosophy, and imaginative literature. Three criteria governed the selection (by Robert Hutchins and Mortimer Adler) of these books, which made their appearance in a time span covering more than 25 centuries (from Homer’s Iliad and Odyssey to Claude Lévi-Strauss’ Structural Anthropology). They were chosen by virtue of their dealing with issues, problems or facets of human life that are of major concern today as well as at the time in which they were written. They are worth reading carefully many times or studying over and over again. And they have very broad and general significance; their authors have something of importance to say about a large number of great ideas making up the abstract and complex infrastructure of Western thought.
Only a fraction of the rich Chinese literature has found its way to Gallimard’s world-famous *Bibliothèque de la Pléiade*. The integral, annotated translation of the *Zhengshi* (*Dynastic Histories*), the importance of which can hardly be exaggerated, is the dream of many historians. Sima Guang’s *Zizhi Tongjian* (*Comprehensive Mirror for Aid in Government*); the *Shitong* (*Ten Encyclopedic Histories of Institutions*); the monumental *Gujin Tushu Jicheng* (*Complete Collection of Illustrations and Writings from the Earliest to Current Times*), which—in the 18th century—attempted to embody the whole of China’s cultural history; the extant collections of *Zhaoling Zouyi* (*Edicts and Memorials*); the treasure troves known as *Daozang* (*Daoist Canon*), *Daozang Jiyao* (*Essentials of the Daoist Canon*) (extra-canonical texts) and *Dazangjing* (*Chinese Buddhist Canon*); the invaluable Dunhuang manuscripts; and thousands of *Difangzhi* (*Local Gazetteers*) are waiting to be (further) opened up by Sinologists for scientists unable to read Chinese. So are the works mentioned in the three-volume *Zhongguo Fazhishi Shumu* (*Annotated Bibliography of Chinese Legal History*), compiled by Zhang Weiren and published, in 1976, by Academia Sinica. In addition, a new, philosophically as well as historically annotated4 translation of the *Zhuzi Jicheng* (*Complete Collection of the Works of Ancient Philosophers*) would be warmly welcomed; and an incomplete list of modern and contemporary books deserving (in our view) to be translated reads as follows:

- Jin Yuelin, *Luoji* (*Logic*), 1935;
- Fu Qinjia, *Zhongguo Daojiao Shi* (*The History of Daoism in China*), 1937;
- Tang Yongtong, *Han Wei Liangjin Nanbei Chao Fojiao Shi* (*The History of Buddhism in the Han, Wei, Jin, and Northern and Southern Dynasties*), 1938;
- Jin Yuelin, *Lun Dao* (*On Dao*), 1940;
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- Yao Dali, Dushi de Zhihui (The Wisdom of Reading History), 2010;
- Liu Yingsheng, Hailu yu Lulu (Maritime and Continental Routes), 2010;
- Wang Liqi, Yantielun Jiaozhu (Discourses on Salt and Iron Collated and Annotated), 2011;
- Jin Guantao and Liu Qingfeng, Zhongguo Xiandai Sixiang de Qiyuan (The Origins of Modern Thought in China), 2011;
- Yi Wu, Yijing de Chubian Xue (Yijing: Learning to Deal with Changes), 2012;
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Finally, over the last three decades, eminent Chinese economists have variously written about the unprecedented growth of their country’s economy. Their main theoretical/empirical work has, alas, seldom been translated into a Western language.

Translating, that humble, yet ever so important activity, is the strength, doing scientific research the weakness of Sinologists not graduated in any of the social or human sciences. They should, therefore, concentrate on the former and link up with scientists for the latter. If they desire to embark on the study of a subject related to China, we would counsel them not to run the risk of being shipwrecked because of shortage of seamanship. Instead, they should look around for China oriented scientists to set up a joint venture. In this way, the party lacking disciplinary grounding has the right analytical tools at his disposal, whereas the party unable to read Chinese has access to primary sources. For “There is no more excuse for sinologists writing incompetently on technical subjects than for scientists working incompetently upon texts” (Denis Twitchett). It would be wrong, however, to conclude that partial views add up to a Totalbild, to a complete and coherent picture of the articulated, multileveled whole of China. What we have got when the various joint ventures finally come out with their product is a patchwork rather than a tapestry, a juxtaposition rather than a composition, a pile of well-made bricks rather than a house, an ‘aggregate’ (Gesamtheit) rather than a ‘whole’ (Ganzheit).

China Is a Complex System of Complex Systems

Each country is a territory-bound, history-moulded, multi-minded, at one time open, at another time closed system of inextricably intertwined physical, chemical, biological and social systems. It has a “face” (Gestalt), a style, a character, a distinctive “sound” or “beat”, a particular “flavor” (rasa), a cultural heritage expressing its soul. Constantly changing, sometimes revolutionarily, it has properties none of its constituent subsystems has (much in the same way as the nature of water is irreducible to the attributes of hydrogen and oxygen; and a computer or television picture is more than the sum total of the bits of the pixels into which it can be decomposed). Not being an aggregate of (groups of) humans
who live on an expanse of land, but a superorganism, a hierarchically ordered, non-fragmentable holon, an exceedingly complex system of complex systems, and an intricately evolving compound/composite (the elements of which are held together by a mysterious kind of chemistry), a country cannot be understood by studying its parts one by one, by considering each or some of them out of its/their context. It can only be understood across the disciplines, that is to say, inter- or transdisciplinarily.

Like the ant that cannot see the pattern of the carpet, a country student can never grasp the whole picture of it, not only because it is hard enough to be expert in one scientific domain and enormously difficult to learn two (let alone more than two) disciplines, but also because the whole of the country is something else than the sum total of its parts. Composition goes far beyond juxtaposition. So we need genuine scientific collaboration. The human body can only be dissected/analysed at the price of cutting vital connections. Breaking a country up into morsels for scientists from separate, non-communicating departments to chew on (the multidisciplinary approach) amounts to destroying a “system” (σύστημα, constitution) in order to comprehend it. The crux of the matter is that the parts and the whole are interconnected, intertwined and interinvolved; they are inseparable from, and non-subordinatable to, each other. Quite simply: it takes two to tango.5

Countries, big or small, have to be thrown into a fresh perspective. Concepts borrowed from the burgeoning science of complex systems must be applied to them. Studies have been done on the complexity of cells/neurons, brains, organisms, companies/organisations, cities, polities, economies, societies, ecosystems and ‘social-ecological systems’ (SESs), even on the complexity of the entire globe (complexity being defined as “elements that react to the pattern they together create”). It is time to explore the possibility and feasibility of studying the complexity of countries, of recasting the issues related to them in terms of complex systems. At this critical juncture, when mankind’s survival is at stake, we can no longer afford to think and behave as if the intricately patterned and dynamically evolving economic, financial, political, legal, military, social, cultural, educational, religious, ecological, and foreign-relations systems of a nation-state are not interconnected, are not corresponding to, interfacing with, or mapping onto each other. It is time to imagine China through the miraculous language of

5 Language use is another form of joint action. See Clark (1996). “Classicism is the subordination of the parts to the whole; decadence is the subordination of the whole to the parts”, Oscar Wilde aptly said.
mathematics/logic, “the cosmic eye of humanity” (Eberhard Zeidler);\(^6\) time to look for links and loops, for homologies and isomorphies, for correspondences and correlations, for analogies and similarities, for kinds and grades of embeddedness, for dynamic interfaces, for relationships between structures (category theory), for the invariance/constant in the variety/change; time to elucidate the pathways underlying China’s functioning; time to map and computationally visualise the network(s) of its variously connected and continually changing multilayered institutions; time to investigate how the whole of the country, being a huge one-many, a complex “system of systems” (SoS), is held together and differs from that of another country, like Rembrandt’s \textit{Night Watch} from Picasso’s \textit{Guernica}.

Basically, complex systems scientists are exclusively interested in properties common to all complex systems, leaving it to non-formal scientists, in the fields of natural or cultural research, to study the differences between these systems. Practically, however, they confine themselves to a particular system and follow essentially one of two approaches. The first method is the building and study of a mathematical model that only contains the most important properties of the system. The tools used in such studies include, but are not limited to, dynamical systems—, game—, and information theory. The second approach is building a more comprehensive and realistic model, usually in the form of a computer simulation, representing the interacting parts/agents of the system, and then watching and studying the emergent behaviour that appears. The power of computer simulation, aka computational modelling, has far exceeded anything possible using traditional paper-and-pencil mathematical modelling. The two approaches can be combined. The science of complex systems encompasses the study of particular systems and the study of systems in general; any advance in one of them makes a contribution to the other.\(^7\)

Mark Newman, who is associated with the renowned Center for the Study of Complex Systems, at the University of Michigan, concludes a recent survey as follows:

Complex systems [science] is a broad field, encompassing a wide range of methods and having an equally wide range of applications. The resources

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\(^7\) Visit www.socio.ethz.ch/modsim/index. In addition, see note 2 and 6.
reviewed here cover only a fraction of this rich and active field of study. For the interested reader there is an abundance of further resources to be explored when those in this article are exhausted, and for the scientist intrigued by the questions raised there are ample opportunities to contribute. Science has only just begun to tackle the questions raised by the study of complex systems and the areas of our ignorance far outnumber the areas of our expertise. For the scientist looking for profound and important questions to work on, [the study of] complex systems offers a wealth of possibilities.  

The science of complex systems is an early 1980s outgrowth of a) the science of systems (the study of the general properties of systems), b) cybernetics (the study of control and communication in systems), c) system dynamics (the study of the behaviour of systems over time), d) synergetics (the study of the fundamental principles of pattern formation in systems), e) nonequilibrium statistical mechanics (the study of the emergence of dissipative structures), f) catastrophe theory (the study of sudden shifts in the behaviour of a system arising from small changes in its environment) and g) mathematical biology (the mathematical study of the mechanisms involved in biological processes). In the late 1990s, the ‘complexity turn’ took place: social scientists changed their attitude to, and became increasingly interested in, complexity science.

The *SAGE Handbook of Complexity and Management*, published a few years ago (Allen et al 2011), is “the first substantive scholarly work to provide a map of the state-of-the-art research in the growing field emerging at the intersection of complexity science and management studies”. Given that each company belongs to an industry (line of business), which is one of the sectors of an economy, which in turn is one of the systems a country consists of, we hope that this paper will convince the reader of the importance of redesigning Sinology, of the significance of forging bridges between complexity science(s) and ‘China studies’.

**Scientific Collaboration**

China can be compared with a brilliant-cut diamond, that sparkles in the sun. There will be no sparkling/brilliance until variously educated scientists shed light on the country. Having many faces/facets, it should be approached integratively.

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The scientific ‘attack’ on China should be a concerted one; the operation should be a combined, joint effort. Like every country, it should be studied interdisciplinarily and depicted cubistically (with different viewpoints amalgamated into a multifaceted whole), because the whole and the parts of China are mutually implicated. China is a universe the centre of which is everywhere.

There are different ways of scientific collaboration, but they have a common denominator. The scientists involved understand that reality, being the nexus of interrelated phenomena irreducible to a single dimension (ordo connexio rerum), can never be grasped by separate disciplines, which have formed the layout of universities since the 18th century. While specialisation (read: fragmentation) has yielded sharper analytical acuity within particular knowledge domains, where the ceteris paribus clause has been the self-imposed, unrealistic rule of operation (unrealistic because other relevant things never remain unaltered!), the goal of reaching integrated understanding has receded. Depth of focus has been achieved at the expense of breadth of view. Some scientists begin to realise that difficult, real-life problems require the pooling of disciplinary knowledge and analytical skills. It may be very hard for one (wo)man to become an expert in two disciplines, but two (wo)men jointly well-versed and well-trained in two disciplines, e.g. physics and chemistry, chemistry and biology, biology and psychology, psychology and sociology, sociology and economics, or—and here the circle closes—economics and physics, can co-produce something of great value.

Interdisciplinary research is not a simple case of summing (Σ), of aggregating several disciplines into one, multidisciplinary research project. Extra effort is needed to achieve the promise of synergy, by forming a cohesive team that combines the expertise of different (groups of) people. Cross-disciplinary collaboration is difficult, because it requires a conceptual turnaround, lacks prestige in classical academia, seems to threaten the position of deeply entrenched colleagues, has to overcome institutional barriers, and places one outside the circle of standard job slices. However, it has considerable added value: not only personal, because it enriches the life of those involved, and social, because its results tend to be more robust, but also scientific, because the collaboration minimises duplication, lights up blind spots, fosters analogical reasoning, leads to cross-fertilisation and—most important—stimulates innovation and creativity (provided

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10 This subject is connected with the issue of unity of science. Visit http://plato.stanford.edu/entries/scientific-unity.

11 For more on ceteris paribus clauses, visit http://plato.stanford.edu/entries/ceteris-paribus.
the members of the team actively listen to, and challengingly question, each other; provided they attempt to argue on the same wavelength, so to speak). The adversaries of interdisciplinary (as distinct from: international) collaboration do not have to worry: it means integration, not fusion, of disciplines; it is based on the salad bowl concept, on the principle $1 + 1 > 2$. Its participants are comparable to the members of a symphony orchestra who are professional players of different instruments *put in tune*.  

Workers in both the natural and the cultural (*i.e.* cognitive, behavioural, social, and human) sciences are increasingly using mathematical methods and techniques. Since the bridge between these sciences and mathematics (the wider, higher and deeper growing study of topics such as quantity, structure, space, and change) is heavily traveled, the interdisciplinary dialogue is stimulated. Moreover, scientific collaboration is facilitated by e-research, which may be called a major breakthrough in science and technology. It combines *a)* vast quantities of digitised data (digital libraries), *b)* supercomputers running sophisticated software, and *c)* high-tech connectivity between computers (cloud- and grid computing, semantic web). With modern computers, almost any form of knowledge can be precisely expressed, and multi-dimensional computations of complex multi-scale phenomena are not beyond reach anymore. The potential of the Internet, implying the availability of all information for everyone, instantly and everywhere, seems to be boundless.

**Wide and Deep**

Unmistakably, there is something terribly wrong with Western Sinology (*Zhōngguóxué*). The field is not circumscribed. Unable to define their disciplinary matrix, lacking a research agenda, not having built a domain ontology (a precise explanation of the basic terms of their discourse), not commanding a theory of their own, and not searching for systematised knowledge with regard to China in and of itself, the so-called China experts in Europe and America are not scientists,

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12 See Frodeman et al (2010), Bhaskar al el (2010), Bammer (2013), Thorén and Persson (2013), Montuori (2013), Bourgine (2013), and Mathieu and Schmid (2014). For an interesting but unconvincing counterpoint, see Jacobs (2014). In 2012, the Centre for Interdisciplinary Methodologies (CIM) was established at the University of Warwick.


even if ‘science’ is broadly defined. Ignoring the elephant in their room and refusing a *Reflexion auf eigenes Tun*, these scholars boldly claim to synthesise the results of all kinds of professional study regarding the country of their choice, but —without a conceptual framework, *i.e.* without a model representing China as such—they are not able to present a comprehensive and coherent picture of the country, not to mention a lucid exposition of its dynamics, its phase transitions, its transformation logic. Browsing and trespassing rather than really “putting together” is what these heroic polymaths are good at. Having no degree in any of the disciplines concerned, they do not shrink from rushing in where angels fear to tread. Implicitly claiming to be scientific all-rounders in respect of China, these jacks-of-all-trades keep the reader/listener/viewer in the dark as to how the parts fit into the whole and, conversely, how the whole stands interconnected with the parts. Their China approach is *mile-wide-but-inch-deep*. Though their population is dwindling, they are by no means extinct, their scholarship often being the pretentious garbed in the unintelligible.

The claimed post-war “split of sinology into specialisms” has worsened the situation, because there is confusion and obfuscation as to who has a thorough grounding in a scientific discipline and who has not. Some, and we believe many, ‘China experts’ are actually amateurs who have the bad habit of donning the hat of a scientist without filling his shoes. Others have no qualms about introducing themselves simply as “Professor at the University of … (name of city)”. A courteous request to present academic credentials is considered a token of disrespect, and deeply ingrained customs (old boys network) preclude fundamental internal criticism, causing intellectual inbreeding, a deplorable situation politicians choose to turn a blind eye to. Occasionally—we confine ourselves to one example—one, knowing very well that studying a language is not the same as studying the literature written in that language, decided to enrol for literary studies before hurling him/herself at the *Chinese* literature. His/her monodisciplinary approach to the country is then *mile-deep-but-inch-wide* (the truth would be intolerably stretched if such a person permitted people to call him/her “China expert”). However, the problem with these one-dimensional scientists, who Max Weber would have derogatorily called *Fachmenschen* (de- or compartment people), is that they are accusable of silo/stovepipe thinking, of not seeing the big country-picture, of being unable to think systemically (to discern the parts as well as the whole). To remove this odium, they have a tendency to cross boundary lines, blissfully ignorant about the dangers of skating on thin ice. Readers taking pains to
check the list of contributors to ‘Chinese/Asian Studies’ journals will discover that
the editorial boards of these competing periodicals (the number of titles runs into
the dozens) have not been consistent in their declared policies on the
professionalism of authors. All too often, published articles are not “of the highest
academic standard”. In our view, the wheat has not always been separated from
the chaff, and experts in their own field of study are still allowed by editors who
may not be kosher themselves to veer off course, that is, to leave their academic
home turf and to enter unlawfully upon somebody else’s professional domain.
Goodbye, intellectual integrity!

The fork in the road ahead for Western Sinologists is two-pronged: translating or collaborating. They are reported/supposed to be fluent in classical
and modern Chinese. So our advice would be: cobbler, stick to your last. There are
numerous important Chinese books eagerly awaiting translation. If their desire is
to embark on the study of a China related subject, we would counsel them not to
venture forth on too vast a sea, but to look around for China oriented experts (i.e.
scientists [in the first place] who have a special interest in China) to set up a joint
venture, with the caveat that partial views do not add up to a picture of the whole
of China. For making good use of organised and structured databases, they need to
be interconnected. Partial studies that are not nicely dovetailed or firmly
interlocked with each other present the reader with a spectacle coupé, with a
Humpty-Dumpty broken into bits. Such studies (one may think of those collected
in the only chronologically ordered set of hefty tomes entitled Cambridge History
of China, this work being a far cry from a profound, multiperspective
narrative/story of China’s past) do not constitute a coherent whole. They lack the
critical and unifying (not: uniforming) framework that could be provided by the
science of systems and the related science of networks, the theoretical parts of
which must appeal to researchers really willing to work together and fully aware
of the awesome power of making the right distinctions and abstractions.

Parceling up neglects relations that matter. Compartmentalisation, or
departmentalisation, the breaking down (mentally) of a complex system into
“more manageable” subsystems easily results in losing sight of the context, of the

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15 The online Encyclopedia of Life Support Systems (www.eolss.net) is a striking example. Being an
“integrated compendium of twenty one encyclopedias”, the EOLSS body of knowledge “attempts to
forge pathways between disciplines in order to show their interdependence”. It “deals in detail with
interdisciplinary and transdisciplinary subjects, but it is also disciplinary, as each major core subject
is covered in great depth by world experts.” See note 12.
environment, of the surroundings, of the conditions under which these subsystems operate within their suprasystem. A good physician and a commander-in-chief know this. We need a cubistic, multi-professional perspective, a multimodal integration. If and only if they are orderly and specifically put together (assembled), single parts/modules/entities/agents make up a whole, as every architect, astronaut, chef de cuisine, choreographer, composer, flower arranger (ikebana), novelist, even a football coach can tell. The interactions and interfaces between the components of a country (e.g. its political, legal, military, economic, financial, social, educational, and cultural system) need to be investigated, much in the same way as the fundamental structure of the human language faculty is examined in current linguistics, that is to say, the interfaces between phonetics, phonology, morphology, syntax, semantics, and pragmatics. (Ramchand and Reiss 2007, 1–13; O’Grady et al 2009, ch. 2–6 and 12–14).16 For, as the ancients intuitively knew already, the perpetual interplay of components (a process involving exclusiveness-dissimilarity-uniqueness-discreteness as well as inclusiveness-similarity-commonness-continuity) is the basic principle of life and the core of all matter; it is the very essence of intelligence, creativity and harmony. In the words of Chinese-American theoretical physicist Kerson Huang: “Interaction makes the world tick”. Studying China multidisciplinarily is fatally flawed; it will lead to hamartia, to “missing the mark” (illuminating the whole country); it is bound to result in a building not held together by cement, in the sterile juxtaposition of accounts forming a picture of incompatible colours. Partition walls must be lowered (but certainly not removed). What we need is detribalisation, collaborative scholarship, a well-coordinated joint effort, a disciplinarily integrated approach, that facilitates consilience, the joyful jumping together of scientific knowledge.

The main thrust of this debunking argument is that China ought to be seen under the aspect of its whole, sub specie totius, which is not to say that analysis, as understood in analytic philosophy, is unimportant (see note 4). The country must be depicted not in a “flat”, or “curved”, but in a “fully rounded” way. For knowledge of the whole is knowledge of each and every part of it, and the other way around. It cannot be overstressed: in order to be scientific, the approach to China should be integrative, orchestral. Professional players should put their

16 According to French (2014): “At the most fundamental level, modern physics presents us with a world of structures and making sense of that view is the central aim of the increasingly widespread position knowns as structural realism”.
various instruments in tune and perform a symphony. Different perspectives must be brought together into the same dialogue space. Being a large, intricate and culture-soaked society *cum* polity *cum* economy *cum* geography *cum* history, China has to be studied truly interdisciplinarily. *L’unité fait la force.* Besides collaboration between Sinologists and China oriented scientists, we need ICT-driven collaboration between these scientists. In other words, we are in need of Sinologists who are prepared to work together with scientists having *a*) profound knowledge in a particular discipline, *b*) a special interest in China, *c*) proficiency in communicating with other “T-shaped” experts, and *d*) skill in using the tools provided by rapidly developing e-research; with scientists being, additionally, conscious of the important but often forgotten fact that geography (the study of who, what, how, why and where) is nothing but history in space, while history (the study of who, what, how, why and when) is only geography in time.

The methods of grounded theory and “structured dialogic design” (Flanagan and Christakis 2010) could be used to engage the stakeholders in a productive conversation; the newest techniques of categorisation, concept mapping, (big) data mining, information visualisation/virtualisation and PowerPoint presentation could be applied to stimulate their imagination; and much could be learned from those having first-hand experience in operations—and/or project management. First and foremost, however, Sinologists (presumed to be highly competent to translate) and China oriented scientists willing to team up with each other should consult people versed in network—and (complex) systems science. For these are the fast evolving fields of research that may provide a conceptual framework within which the closely intertwined patterns of China can be described and analysed in a meaningful way. What is more, these are the disciplines that can play a crucial role in understanding any country/nation and, ultimately, *die ganze verknotete und vernetzte Welt,* which is—we hope those involved in global, or international (relations), studies will really realise it—a hypercomplex system of complex systems of complex systems in the cosmos (the grand total).17

17 For network science, see Newman (2010), and visit www.barabasilab.com and www.cnn.group.cam.ac.uk. For the science(s) of systems, see Ramage and Shipp (2009), Hofkirchner (2009), and Capra and Luisi (2014). In addition, visit www.iss.org, www.ifsr.org, www.iascys.org and www.collegepublications.co.uk/systems. For a short cut through the vast literature on the science(s) of complex systems, visit www.springer.com/physics/complexity?SGWID=0-40619-6-127747-0. In addition, see note 8 and 9. More than a decade ago, Taylor (2001) captured a whole new *Zeitgeist* in the making.
Multidisciplinarity is certainly not the solution to the problem of Western Sinology. Changing from the mile-wide-but-inch-deep approach of the generalist (‘China study’) to the mile-deep-but-inch-wide approach of juxtaposed partial studies (‘Chinese studies’), one gets out of the frying pan into the fire. (Western) Sinologists should decisively act, attempt to engage the interest of scientists from various quarters, and treat China as a *Ganzheit*, as a territory-bound, history-moulded and goal-directed totality of identifiable and yet interdependent actors and factors. The study of China, in particular the long overdue interdisciplinary study of its modernisation,\(^\text{18}\) should be mile-wide-and-mile-deep, and the most important words should be “coordination” and “integration”. The dilemma as to whether to take the road to “knowing nothing about everything” or to “knowing everything about nothing” in respect of the country will then be broken, and both the wood and the trees will be seen. Firmly distancing itself from multidisciplinary research, the study of China we have in mind requires a well-thought-out, perfectly balanced division of labour, *i.e.* the specialisation of cooperating individuals valued by Adam Smith and Émile Durkheim. Parts and whole, the reader will remember, are mutually implicated and inseparable from each other. It takes two different persons to perform a *pas de deux*. Entangled, *Yin* and *Yang* form *Taiji*, the fundamental concept that was created in ancient China and has been visualised as the suggestive diagram but that the West appears to have great difficulty in understanding. Working together as a scientific team informed about the latest developments in (complex) systems—and network science is the key to understanding China in and of itself, to comprehending the country taken as a single but not isolated or separated entity.

The change to interdisciplinary research in the study of China will be a paradigm shift. Reading John King Fairbank’s widely acclaimed book *China: A New History* (Belknap, 1992), one might be impressed by the ease with which the great American China-scholar wrote about all kinds of subjects related to the country he had fallen in love with. However, it should not be overlooked that Professor Fairbank, whose well-known students were Benjamin Schwartz, Mary C. Wright, Rhoads Murphey, David Nivison, Albert Feuerwerker, Merle Goldman, Thomas Metzger, Philip Kuhn, Paul Cohen, Orville Schell, Andrew Nathan and Ross Terrill (to name but a few influential Sinologists), is to blame for

\(^{18}\) The key question here is: **Can China become a modern nation without liberty?** For “liberty”, “liberté” or “Freiheit”, explore Wikipedia. Schelling (1809) and Lisin (1995) are must readings for Chinese intellectuals. See Kuiper (2013).
encroaching upon foreign territory, for having entered without announcement/permission the domains of professionals. Now let J.K. Fairbank & Co. be a legal person with many cross-communicating heads, each graduated in, and familiar with the history of, geography, demography, archaeology, linguistics, literary studies, economics, agronomy, (corporate, public and/or international) finance, business administration, political science, law, military studies, medicine, psychology, sociology, anthropology, mythology, pedagogy, semiotics, cybernetics, informatics, communication studies, transportation studies, religious studies, Kunstwissenschaft, energy studies, ecology (sustainability science) or philosophy, and—common denominator—having mainly research interest in a particular, discipline related aspect of China. We dare say this scientific, the university spirit epitomising community, by focusing on the process of finding answers to carefully formulated shared questions and then pooling the resources of its members, would be able to produce a book on the complex and multi-faceted history of the country entirely different from, and more thoroughly researched than, the one written by JKF, provided the poly-dimensional mapping project is well managed, provided the scientific orchestra is well conducted. Were such a comprehensive, diasynchronically focused book (series) published, the giant step from multi- to interdisciplin ary research and production would have been taken, a decisive move those subscribing to the fundamental idea of Das Bauhaus would loudly applaud but no automobile—, aircraft—, or spacecraft manufacturer would be surprised at. Having only superficially dealt with this matter of utmost importance, we leave it to be further discussed at the highest echelon of the world’s top universities.19

Conclusion

With philosophy, mathematics, science and technology changing their character, the study of China should be lifted onto a higher plane, higher than what ‘China experts’ at the School of Oriental [sic] and African Studies (SOAS), the German Institute of Global and Area Studies (GIGA), the National Institute of Oriental [sic] Languages and Civilisations (INALCO), the Institute of Far Eastern [sic] Studies (RAS), the Brookings Institution, the University of California (Berkeley), the

19 In December last year, we sent a copy of this article to the current and a former director of the highly prestigious Fairbank Center for Chinese Studies at Harvard University. We suggested discussing the subject of the paper at the next “advisory committee” meeting. The former let us badly down; the latter, student of JKF, did not even care to respond to our e-mails. Nobody at this famous China policy advising centre seems to be interested in uplifting the study of China!
University of Tokyo, the East Asian Institute (Singapore), Collège de France, CECMC, Academia Sinica (Taipei), Fudan—, Tsinghua—, Columbia—, Princeton—, Stanford—, Yale—, Heidelberg—, Leiden—, Lund—, Aichi—, Keio—, Kyoto—, Jawaharlal Nehru— and/or Australian National University allegedly aim at; higher than the declared objective of the leadership of CCPN Global, that “unique global academic society for advancing the study of China and the Chinese from a comparative perspective”, launched in March 2013. If the purpose of Sinology, Chinakunde, Синология or Chūgokugaku is to make a fine weave, its approach should be diachronic and synchronic at the same time; it should be historical/longitudinal as well as cross-sectional/transversal. That is to say, those embarking on the study of China as such should take a leaf out of the historical sociologist’s manual; they should from the very outset bear in mind that paths and patterns are point-counterpointedly related, on macro-, meso- and microscale.

With each and every one of the cultural sciences beginning to realise that without the help of the other neither will be able to proceed very far, the heyday of Sinology is yet to come. However, this crucial point (Wende!) in the history and evolution of that odd field of research called “China study”, or “Chinese Studies”, cannot be reached until one thing has been accomplished: the official opening of a truly scientific, genuinely interdisciplinary, and professionally managed China research centre, this being an Institute for Advanced China Study fitting neatly into the university imagined by Elkana and Klöpper (2012), affiliated with a yet to be established International Union of Area/Country Studies, and linked up with the global e-infrastructure. Meanwhile, the organisation of an international conference on (comprehending, and coping with) the complexity of China, i.e. a world forum co-organised by Associations/Societies of Sinologists (e.g. EACS) and really committed to improving the current state of the study of China, might be worth considering. “Really”, because the high-profile “World Forum on China Studies”, co-sponsored by the State Council Information Office of the People’s Republic of China and the Shanghai Municipal Government, is a complete farce, a shameless show of partisanship. The active participants in the onsite and/or online conference/congress we are thinking of, especially the

20 It should be noted that the Chinese Communist, or Capitalist (?), Party, used to falsify the history of China and pursuing a policy of chanxin (mind binding) rather than chanzu (foot binding), attempts, by any means possible, to prevent social and human scientists from doing serious research in/on the country—a major subject “China experts” thinking of their next application for a visa to visit China refuse to discuss at public meetings and/or do not dare to write about.
younger generation among them, will undoubtedly benefit from a fundamental, critical, open, and professionally moderated discussion.

Phrases like “systems thinking”, “research synthesis”, “nonlinear behavior”, “circular causality”, “agent-based modeling”, “pattern formation”, “data compression”, “level of analysis”, “concept mapping”, “upper ontology”, “conceptual modeling”, “knowledge integration,—cartography, and—management”, “network evolution”, “sub/superlinear scaling”, “system dynamics”, “scientific collaboration”, “soft computing”, “multi-formalism modeling”, “intelligent information systems”, “e-research” and “semantic web” are increasingly used, not only in the natural but also in the cultural sciences. The main reason for this is the closing of the gap that has been yawning between the two worlds. This deliberately provocative article is nothing but a wake-up call for ‘China experts’, not only in Europe and the USA but also elsewhere, to be aware of this and to act accordingly, that is, to make the complexity turn in order to reveal the whole elephant. It has been our intention throughout the paper to convince the reader that there is an elevated place (a meta position) where the huge body and bewildering variety of data on a country can be compressed into a falsifiable or refutable theory, where multiplicity (multa) can be turned into simplicity (multum), where—in the case at issue—a breathtaking view of the whole of China can be gained. At that high altitude, long-held convictions will be disestablished and the Eureka effect, the Aha-Erlebnis will be, that—by seeing both the many in the one and the one in the many; by realising that kinds of fruit, like apples and oranges, can be compared—one finally “comprehends” (fasst zusammen). Beautiful and profound is, therefore, the old Chinese proverb: “the pattern is one, the parts are different” (理—分殊).21

China, being a universe the centre of which is everywhere (like an organism the hereditary material of which is encountered in each and every one of its cells), should be studied 1) professionally (i.e. by China oriented people not only running the gamut of the natural and cultural sciences, but also taking full advantage of the latest in information and communications technology), 2) on the basis of reliable/primary sources, and 3) with the translation skill of sinologists being put to good use. The country (indeed, each country) should be approached respectfully

21 In 1970, the author wrote a MA thesis on ‘the key character 理’. The 264-page piece of writing has never been published but its subject has intrigued him ever since, because 理 (pattern, structure), he learned, is intimately connected with 道 (path, the way of nature). For recent research on 理, see Liu (2005), Krummel (2010) and Rošker (2012).
(account also being taken of its history), looked at with an open, unbiased mind, and presented in a critical but fair and honest way. China is a *Gestalt*; it is a dense and intricate network of ties developed over a long period of time; it is an organisation of numerous agents/individuals having different, often convoluted and sometimes strained relations with each other; it is a cluster of institutions (commonly cognised patterns by which societal games are recurrently played and expected to be played); it is a complex system of evolving hierarchical systems; it is a non-linear universe, to be studied as such by China oriented, truly collaborating experts from various disciplines, linguistics, or literary theory/criticism, being only one of them. China is a partly self-organising system, to be defined in terms of space, time, structure and agency; it is an entirety, a *holon*, to be described holographically. China, “l’autre du monde indo-européen”, somehow behaves; it has a personality, symbolised by its flag and national anthem, and embodied/personified by its head of state, because its people have a sense of belonging (sustained by the Chinese script)²² and constitute a values-sharing community of destiny; it has its own particular culture, the *rayonnement* of which cannot be measured. The country has unique, emergent properties, that cannot be attributed to any of its constituent subsystems; it is an *individuum*, something that cannot be divided up without losing its history and geography-related identity.²³

The argument advanced in this bold article boils down to a single, deceptively simple statement: without scientific collaboration, there will be no (empirically and theoretically founded) knowledge of a country. To know a man, it has been said, you have to walk a mile in his shoes; and to know a city, you have to walk a thousand miles. To know a country, we would like to add, you need nothing less than a scientific team. Our inspiration came from the work of Ludwig von Bertalanffy, the creator of *Allgemeine Systemlehre* who has been described as “the least known intellectual titan of the 20th century”. His *Leitmotiv* was “unity-through-diversity” (providing space for different perspectives while sharing a common goal).²⁴ Our hope is that “the brick we have thrown will attract a

²² The reader will remember Hugo von Hofmannsthal’s speech *Das Schriftum als geistiger Raum der Nation* (1927).


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