

Original Article

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Corresponding author: Shu-Sen Chang

Email: shusenchang@ntu.edu.tw

Space-time self-harm and suicide clusters in two cities in Taiwan

Fang-Wen Lu^{1,2}, Erica Conway^{2,3}, Ya-Lun Liang², Ying-Yeh Chen^{4,5}, David Gunnell^{6,7} and Shu-Sen Chang^{2,3,8}

¹Institute of Epidemiology and Preventive Medicine, College of Public Health, National Taiwan University, Taipei, Taiwan; ²Institute of Health Behaviors and Community Sciences, College of Public Health, National Taiwan University, Taipei, Taiwan; ³Global Health Program, College of Public Health, National Taiwan University, Taipei, Taiwan; ⁴Taipei City Psychiatric Centre, Taipei City Hospital, Taipei, Taiwan; ⁵Institute of Public Health and Department of Public Health, National Yang-Ming Chiao Tung University, Taipei, Taiwan; ⁶Centre for Academic Mental Health, Population Health Sciences, University of Bristol, Bristol, UK; ⁷National Institute of Health Research Biomedical Research Centre, University Hospitals Bristol and Weston National Health Service Foundation Trust, Bristol, UK and ⁸Psychiatric Research Center, Wan Fang Hospital, Taipei Medical University, Taipei, Taiwan

Abstract

Aims. Suicidal acts may cluster in time and space and lead to community concerns about further imitative suicidal episodes. Although suicide clusters have been researched in previous studies, less is known about the clustering of non-fatal suicidal behaviour (self-harm). Furthermore, most previous studies used crude temporal and spatial information, e.g., numbers aggregated by month and residence area, for cluster detection analysis. This study aimed to (i) identify space-time clusters of self-harm and suicide using daily incidence data and exact address and (ii) investigate the characteristics of cluster-related suicidal acts.

Methods. Data on emergency department presentations for self-harm and suicide deaths in Taipei City and New Taipei City, Taiwan, were used in this study. In all-age and age-specific analyses, self-harm and suicide clusters were identified using space-time permutation scan statistics. A cut-off of 0.10 for the *p* value was used to identify possible clusters. Logistic regression was used to investigate the characteristics associated with cluster-related episodes.

Results. A total of 5,291 self-harm episodes and 1,406 suicides in Taipei City (2004–2006) and 20,531 self-harm episodes and 2,329 suicides in New Taipei City (2012–2016) were included in the analysis. In the two cities, two self-harm clusters (*n* [number of self-harm episodes or suicide deaths in the cluster] = 4 and 8 in Taipei City), four suicide clusters (*n* = 3 in Taipei City and *n* = 4, 11 and 8 in New Taipei City) and two self-harm and suicide combined clusters (*n* = 4 in Taipei City and *n* = 8 in New Taipei City) were identified. Space-time clusters of self-harm, suicide, and self-harm and suicide combined accounted for 0.65%, 0.59%, and 0.08% of the respective groups of suicidal acts. Cluster-related episodes of self-harm and suicide were more likely to be male (adjusted odds ratio [aOR] = 2.22, 95% confidence interval [CI] 1.26, 3.89) and young people aged 10–29 years (aOR = 2.72, 95% CI 1.43, 5.21) than their cluster-unrelated counterparts.

Conclusions. Space-time clusters of self-harm, suicide, and self-harm and suicide combined accounted for a relatively small proportion of suicidal acts and were associated with some sex/age characteristics. Focusing on suicide deaths alone may underestimate the size of some clusters and/or lead to some clusters being overlooked. Future research could consider combining self-harm and suicide data and use social connection information to investigate possible clusters of suicidal acts.

Introduction

A space-time suicide cluster can be defined as multiple suicides that occur closer to each other in time and space than would be expected based on the expectation of the community or statistical chance (Robinson *et al.*, 2016a). One single suicide cluster could have a tremendous impact on the community and lead to serious concerns of imitation, i.e., further occurrences of suicide (Heffel *et al.*, 2015; Robinson *et al.*, 2016a, 2016b).

Previous studies of clusters of suicidal behaviour have mainly focused on suicide deaths (Benson *et al.*, 2022; Haw *et al.*, 2013; Niedzwiedz *et al.*, 2014; Robinson *et al.*, 2016a), although non-fatal suicidal behaviour may also occur as part of a cluster of suicide deaths, and the incidence of non-fatal suicidal behaviour can be 20-fold higher than that of fatal events (Fazel and Ramson, 2020). Not including non-fatal suicidal behaviour in the analysis may lead to many clusters of suicidal behaviour being overlooked.

Space Time And Self

Joseph Cho-yam Lau



Space Time And Self:

Space, Time, and Self, By E. Norman Pearson E. Norman Pearson, 1967 *Space, Time, and Self* E. Norman Pearson, 1967 *Relativity and the Nature of Spacetime* Vesselin Petkov, 2009-06-23 This expanded second edition of *Relativity and the Nature of Spacetime* contains several major changes and a number of additions to different chapters Two chapters Chaps 6 and 7 which discussed two specific groups of arguments against the reality of spacetime have been transformed into appendices A and B Two new chapters Chaps 6 and 10 have been added Chapter 6 entitled *Why Is the Issue of the Nature of Spacetime So Important* elaborates on what was Sect 5.6 of the first edition and addresses some recent work on the nature of spacetime for example the growing or evolving block universe model of the world which has recently been lived by several physicists as what appears to be the last remaining alternative to the Minkowski absolute four dimensional world after it had become an undeniable fact that three dimensionalism or presentism contradicts the relativistic experimental evidence Chapter 10 entitled *Spacetime and the Nature of Quantum Objects* and based on what used to be Sects 6.2 and 6.3 in the first edition explores the implications of the issue of the nature of spacetime for quantum physics in order to see whether it can provide some insight into the nature of quantum objects Two new sections have been included namely Sect 5.6 entitled *Relativization of Existence and Observers in General Relativity* and Sect 7.6 titled *Probing the Anisotropic Velocity of Light by a Terrestrial Experiment*

Theory of the Stationary Self-Consistent Universe Avshalumov Alexander Shamailovich, Since the creation of GR and subsequent works in cosmology the question of the curvature of space in the Universe is considered one of the most important and debated to this day This is evident because the curvature of space depends whether the Universe expands contracts or is static These discussions allowed the author to propose a paradoxical idea simultaneous existence in the Universe of three interconnected space times positive negative and zero curvature and on this basis to develop a theory in which each space time plays its own role and develops in a strict accordance with its sign of curvature The three space time model of the structure of the Universe proposed by the author allows to solve many fundamental problems of modern cosmology and theoretical physics and creates the basis for building a unified physical theory including one that unites GR and quantum physics

Concept and Formalization of Constellatory Self-Unfolding Albrecht von Müller, Elias Zafiris, 2018-05-29 This volume offers a fundamentally different way of conceptualizing time and reality Today we see time predominantly as the linear sequential order of events and reality accordingly as consisting of facts that can be ordered along sequential time But what if this conceptualization has us mistaking the exhausts for the real thing i.e. if we miss the best the actual taking place of reality as it occurs in a very differently structured primordial form of time the time space of the present In this new conceptual framework both the sequential aspect of time and the factual aspect of reality are emergent phenomena that come into being only after reality has actually taken place In the new view facts are just the traces that the actual taking place of reality leaves behind on the co emergent canvas of local spacetime Local

spacetime itself emerges only as facts come into being and only facts can be adequately localized in it But how does reality then actually occur It is conceived as a constellatory self unfolding characterized by strong self referentiality and taking place in the primordial form of time the not yet sequentially structured time space of the present Time is seen here as an ontophanetic platform i e as the stage on which reality can first occur This view of time and thus also space seems to be very much in accordance with what we encounter in quantum physics before the so called collapse of the wave function In parallel classical and relativistic physics largely operate within the factual portrait of reality and the sequential aspect of time respectively Only singularities constitute an important exemption here the canvas of local spacetime that emerged together with factization melts down again In the novel framework quantum reduction and singularities can be seen and addressed as inverse transitions In quantum physical state reduction reality gains the chrono ontological format of facticity and the sequential aspect of time becomes applicable In singularities by contrast the inverse happens Reality loses its local spacetime formation and reverts back into its primordial pre local shape making in this way the use of causality relations Boolean logic and the dichotomization of subject and object obsolete For our understanding of the relation between quantum and relativistic physics this new view opens up fundamentally new perspectives Both are legitimate views of time and reality they just address very different chrono ontological portraits and thus should not lead us to erroneously subjugating one view under the other The task of the book is to provide a formal framework in which this radically different view of time and reality can be addressed properly The mathematical approach is based on the logical and topological features of the Bormorean Rings It draws upon concepts and methods of algebraic and geometric topology especially the theory of sheaves and links group theory logic and information theory in relation to the standard constructions employed in quantum mechanics and general relativity shedding new light on the pestilential problems of their compatibility The intended audience includes physicists mathematicians and philosophers with an interest in the conceptual and mathematical foundations of modern physics

Bioharmonic Self-Massage Yves Bligny, 2011-09-16 Self massage techniques to heal the body mind and spirit Includes self massage techniques to clear the body's blocked energy circuits relieve physical tensions and chronic pain release trapped emotions and reduce stress and anxiety Contains full color illustrations throughout demonstrating bioharmonic massage movement and stretching exercises Demonstrates how to use common objects to work on hard to reach problem areas including the neck shoulders and back to relieve pain and increase fluidity of movement Drawing upon biological decoding reflexology lymph massage and yoga as well as recent neuroscience and quantum physics research therapist and kinesiologist Yves Bligny shows how to awaken the body's natural potential to harmonize energy through the release of tensions and emotional memories trapped within our muscles He explains how the synergy between the physical body emotions thoughts energy and consciousness creates a delicate balance or bioharmony that can be tuned and adjusted through self massage Using the power of intention directed thought aided by expanded awareness of the body as well as

tubes wands tennis balls and other common objects to reach hard to massage problem areas Bligny shows how to take inventory of your body mind and memories and use the conscious touch of self massage to remove energy blockages release trapped emotions and relieve anxieties stress and muscle tensions as well as gain stability and strength Effective for chronic back neck and shoulder problems the movements and stretching exercises of bioharmonic self massage can also be used to increase fluidity of motion ward off illness and attain a state of bioharmonic physical emotional mental and energetic well being

World Congress of Medical Physics and Biomedical Engineering 2006 Sun I. Kim,Tae S. Suh,2007-05-07 These proceedings of the World Congress 2006 the fourteenth conference in this series offer a strong scientific program covering a wide range of issues and challenges which are currently present in Medical physics and Biomedical Engineering About 2 500 peer reviewed contributions are presented in a six volume book comprising 25 tracks joint conferences and symposia and including invited contributions from well known researchers in this field

Information, Natural Law, and the Self-Assembly of Rhythmic Movement Peter N. Kugler,Michael T. Turvey,2015-12-14 Originally published in 1987 the introduction states the authors have successfully accomplished their program to explain based on physical representations the observed relations among various parameters of wrist pendulum oscillations Thereby a set of new ideas and concepts including those developed recently by the scientific school to which the authors belong are introduced to biology These concepts are closely related to the experimental data This accomplishment makes the book especially attractive and demonstrates once more the productivity of applying physics to biology Clear language simple figures and physical examples illuminate rather complicated problems These attractive features should make the book intelligible to a variety of investigators in the field of motor control not only to the specialists with physical and mathematical education From the foreword Kugler and Turvey have written strategic physical biology and shown that after all dynamics including both kinetics and kinematics may support a unitary physical view of some of the profound operations of our brains This is a grand start on what I hope is a larger program of demystifying behaviour

The Ecological Self Freya Matthews,2006-05-23 This is the first book length treatment of the metaphysical foundations of ecological ethics The author seeks to provide a metaphysical illumination of the fundamental ecological intuitions that we are in some sense one with nature and that everything is connected with everything else Drawing on contemporary cosmology systems theory and the history of philosophy Freya Mathews elaborates a new metaphysics of interconnectedness She offers an inspiring vision of the spiritual implications of ecology which leads to a deepening of our conception of conservation

The Immortal Self Richard Wilde,2010 The Immortal Self traces historical ideas of the self as developed by philosophers theologians neurophysiologists and scientists It includes explanations of quantum mechanics and Einstein s theory of relativity that are readable and understandable by the layperson It considers what science presently is capable of contributing to our many diverse concepts of what constitutes the self To this end The Immortal Self explores the brain its morphology and operation explores our concepts of time and looks at

the metaphysical concepts of quantum physics The book also considers the paleontological and genetic evidence for the self Ideas of the self extend into the mists of human history and have been handed down through the ancient Greek philosophers and through the religious prophets and philosophers These ideas are collected and presented in an unbiased account for consideration by the reader Finally an empirical search for the self is suggested About the Author Richard E Wilde is Professor Emeritus of chemistry and biochemistry at Texas Tech University He is a member of the American Chemical Society and the American Physical Society He has published extensively in the areas of chemical physics and molecular spectroscopy He is author of *The Many Faces of Jesus* and co author with Surjit Singh of *Statistical Mechanics Fundamentals and Modern Applications*

Philosophy of Nursing Janice M. Brencick, Glenn A. Webster, 1999-11-18 Using the philosophical lens of universality and singularity in combination with nursing practice Janice M Brencick and Glenn A Webster explore the complex relationship between science and technology on the one hand and the care of unique and complex individuals on the other Through carefully crafted conversations between a nurse and many respected philosophers from Plato to Whitehead the book reflects on spirituality caring and God or the One The authors unique perspectives Brencick is a nursing clinician Webster a philosopher provide a profound and fascinating look at the modern health care system and a new vision for health care in the twenty first century

Scale Invariance Richard N. Henriksen, 2015-04-23 Bringing the concepts of dimensional analysis self similarity and fractal dimensions together in a logical and self contained manner this book reveals the close links between modern theoretical physics and applied mathematics The author focuses on the classic applications of self similar solutions within astrophysical systems with some general theory of self similar solutions so as to provide a framework for researchers to apply the principles across all scientific disciplines He discusses recent advances in theoretical techniques of scaling while presenting a uniform technique that encompasses these developments as well as applications to almost any branch of quantitative science The result is an invaluable reference for active scientists featuring examples of dimensions and scaling in condensed matter physics astrophysics fluid mechanics and general relativity as well as in mathematics and engineering

Self-Organisation Shapes Travel Behaviours and Social Exclusion in Deprived Urban Neighbourhoods of China Joseph Cho-yam Lau, 2020-03-19 This book investigates the influence of self organisation processes on the commuting of the poor workers in urban China It suggests a new approach to investigate and measure individual access and it argues that dynamic interactions between individual action and social structure influence individual s access to transport which cannot be measured using other traditional accessibility approaches The overwhelming majority of models in transport research assume that socio economic factors and the built environment influence the accessibility of transport for individuals This book provides evidence that individual decision makings and actions are also vital factors to bring out changes in accessibility Further the study adopts a self organisation process and structuration theory to illustrate that a significant proportion of travel problems of migrants are rooted in the interaction between actions and social

structures Any change in migrants actions or social structures in the self organisation process would result in the production of complex and spontaneous travel behaviour The self organisation approach presented provides a new approach for urban transport planning in the future particularly on the investigation of the accessibility of disadvantaged social groups By using the social theories transport research can have an effect on commuting behaviour and to improve poor workers quality of life

Computer Vision – ECCV 2022 Shai Avidan, Gabriel Brostow, Moustapha Cissé, Giovanni Maria Farinella, Tal

Hassner, 2022-10-22 The 39 volume set comprising the LNCS books 13661 until 13699 constitutes the refereed proceedings of the 17th European Conference on Computer Vision ECCV 2022 held in Tel Aviv Israel during October 23 27 2022 The 1645 papers presented in these proceedings were carefully reviewed and selected from a total of 5804 submissions The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation

The Self-evolving Cosmos Steven M. Rosen, 2008 This unique book offers an original way of thinking about two of the most significant problems confronting modern theoretical physics the unification of the forces of nature and the evolution of the universe In bringing out the inadequacies of the prevailing approach to these questions the author demonstrates the need for more than just a new theory The meanings of space and time themselves must be radically rethought which requires a whole new philosophical foundation To this end the book turns to the phenomenological writings of Maurice Merleau Ponty and Martin Heidegger Their insights into space and time bring the natural world to life in a manner well suited to the dynamic phenomena of contemporary physics In aligning continental thought with problems in physics and cosmology the book makes use of topology Phenomenological intuitions about space and time are systematically fleshed out via an unconventional and innovative approach to this qualitative branch of mathematics The author's pioneering work in topological phenomenology is applied to such topics as quantum gravity cosmogony symmetry spin vorticity dimension theory Kaluza Klein and string theories fermion boson interrelatedness hypernumbers and the mind matter interface

Nature's Self Robert S. Corrington, 1996 The drama of the unfolding of the spirit Corrington argues is one of the most powerful struggles within the human process The spirit is in and of nature and can never lift the self outside of nature For Corrington's ecstatic naturalism there is no realm of the supernatural only dimensions and orders within nature

The Self The Soul and The World: Affect Reason and Complexity Avijit Lahiri, 2023-10-14 This book looks at the affective cognitive roots of how the human mind inquires into the workings of nature and more generally how the mind confronts reality Reality is an infinitely complex system in virtue of which the mind can comprehend it only in bits and pieces by making up interpretations of the myriads of signals received from the world by way of integrating those with information stored from the past This constitutes a piecemeal interpretation by which we assemble our phenomenal reality In perceiving

the complex world and responding to it the mind invokes the logic of affect and the logic of reason the former mostly innate and implicit and the latter generated consciously in explicit terms with reference to mind independent relations between entities in nature It is a strange combination of affect and reason that enables us to make decisions and inferences the latter mostly of the inductive type thereby making possible the development of theories Theories are our tool kits for explaining and predicting phenomena guiding us along in our journey in life Theories however are defeasible and need to be constantly updated at times even radically In this the self and the soul are of enormous relevance The former is the affect based psychological engine driving all our mental processes while the latter is the capacity of the conscious mind to examine and reconstruct the self by modulating repressed conflicts If the soul remains inoperative all our theories become misdirected and a rot spreads inexorably all around us

Song of the Self Ramakrishna Puligandla, 2008-03 This is a work of poetic reflections on the world Self and Reality In short these are mystical poems They are offered to all people irrespective of their race caste creed color and gender thereby hoping to persuade all people to engage in the quest for self knowledge and hence of ultimate reality The main goal and purpose of these poems is to enable every reader to attain transcendence Even if this work is moderately successful in this endeavor the author will have been more than rewarded The author greatly appreciates all the scientists philosophers and religious thinkers who so generously gave their time and talent to read these poems and give their most valuable suggestions and reflections These are not ordinary poems but those requiring deep thought and introspection All people who are in quest of their true Self will find these poems most rewarding The author is most grateful to Professor Arthur Herman a great Sanskritist and Indic thinker for deeming this work worthy of his Foreword

The Global Nonlinear Stability Of Minkowski Space For Self-gravitating Massive Fields Philippe G Lefloch, Yue Ma, 2017-08-16 This book is devoted to the Einstein s field equations of general relativity for self gravitating massive scalar fields We formulate the initial value problem when the initial data set is a perturbation of an asymptotically flat spacelike hypersurface in Minkowski spacetime We then establish the existence of an Einstein development associated with this initial data set which is proven to be an asymptotically flat and future geodesically complete spacetime

Time, Self, and Psychoanalysis William W. Meissner, 2007 This book is a study of time particularly of the nature of subjective time that is time as subjectively experienced and lived in contrast with time as measured objectively as for example by a clock The argument first addresses the development of the time experience its origins in infantile experience and traces its variations and modifications during the course of the life cycle As the life course advances concerns about and preoccupations with death play an increasingly important role in attitudes toward and involvement in temporally related contexts The next step is an examination of the phenomenology of time experience itself and its dependence on biorhythms and affective influences An important aspect of this discussion is the relation between time experience as a conscious phenomenon and the functioning of unconscious determinants of the time experience This leads to the question given these conclusions regarding the nature

of time experience what implications can we draw for the understanding of the nature and functioning of the self within psychoanalysis The book s final section applies these understandings to the analytic process focusing particularly on the meaning of the time experience in the patient s psychic reality and patterns of enactment around issues of time and time management in the analytic situation

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