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Systematic review of authorship research across research disciplines

Ana Marušić

Croatian Medical Journal

University of Split School of Medicine, Split, Croatia

PHILOSOPHICAL
TRANSACTIONS:
GIVING SOME
ACCOMPT
OF THE PRESENT
Undertakings, Studies, and Labours
OF THE
INGENIOUS
IN MANY
CONSIDERABLE PARTS
OF THE
WORLD

Vol. I.
For Ann. 1665, and 1666.

In the Year 1665,
Printed by T. N. for John Maister at the Bell, a little within
the Strand, and James Stiles in Southwark.
Printed at the Swan in London.

1665

An Account of Some
Observations, Lately Made
in Spain, by His Excellency
the Earl of Sandwich

Measurement of CP-violating asymmetries in B0 decays to CP eigenstates.

Aubert B, Boutigny D, De Bonis I, Gaillard JM, Jeremie A, Karyotakis Y, Lees JP, Robbe P, Tisserand V, Palano A, Chen GP, Chen JC, Qi ND, Rong G, Wang P, Zhu YS, Eigen G, Reinertsen PL, Stugu B, Abbott B, Abrams GS, Borgland AW, Breon AB, Brown DN, Button-Shafer J, Cahn RN, Clark AR, Dardin S, Day C, Dow SF, Elioff T, Fan Q, Gaponenko I, Gill MS, Goozen FR, Gowdy SJ, Gritsan A, Groysman Y, Jacobsen RG, Jared RC, Kadel RW, Kadyk J, Karcher A, Kerth LT, Kipnis I, Kluth S, Kolomensky YG, Kral JF, Lafever R, LeClerc C, Levi ME, Lewis SA, Lionberger C, Liu T, Long M, Lynch G, Marino M, Marks K, Meyer AB, Mokhtarani A, Momayezi M, Nyman M, Oddone PJ, Ohnemus J, Oshatz D, Patton S, Perazzo A, Peters C, Pope W, Pripstein M, Quarrie DR, Rasson JE, Roe NA, Romosan A, Ronan MT, Shelkov VG, Stone R, Telnov AV, von der Lippe H, Weber T, Wenzel WA, Zisman MS, Bright-Thomas PG, Harrison TJ, Hawkes CM, Kirk A, Knowles DJ, O'Neale SW, Watson AT, Watson NK, Deppermann T, Koch H, Krug J, Kunze M, 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Kowalewski R, Roney JM, Band HR, Charles E, Dasu S, Elmer P, Hu H, Johnson JR, Nielsen J, Orejudos W, Pan Y, Prepost R, Scott IJ, von Wimmersperg-Toeller JH, Wu SL, Yu Z, Zobernig H, Kordich TM, Moore TB, Neal H; BABAR Collaboration.

Laboratoire de Physique des Particules, Annecy-le-Vieux, France.

Abstract

We present measurements of time-dependent CP-violating asymmetries in neutral B decays to several CP eigenstates. The measurement uses a data sample of 23×10^6 $Upsilon(4S) \rightarrow B\bar{B}$ decays collected by the BABAR detector at the PEP-II asymmetric B Factory at SLAC. In this sample, we find events in which one neutral B meson is fully reconstructed in a CP eigenstate containing charmonium and the flavor of the other neutral B meson is determined from its decay products. The amplitude of the CP-violating asymmetry, which in the standard model is proportional to $\sin 2\beta$, is derived from the decay time distributions in such events. The result is $\sin 2\beta = 0.34 \pm 0.20$ (stat) ± 0.05 (syst).

2001: 743 authors

[First measurement of Bose-Einstein correlations in proton-proton collisions at \$\sqrt{s}=0.9\$ and 2.36 TeV at the LHC.](#)

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2010: 2080 authors

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Aims

1. To evaluate evidence about authorship issues and provide a synthesis of research on authorship across research fields
2. To assess authorship definitions and guidance given by groups that have reflected on and established guidelines, rules, or regulations pertaining to scientific authorship issues across all scientific disciplines and geographical locations:
 - a. journals from different scholarly fields
 - b. professional organizations

Search

Electronic databases were searched using a general search term “authorship” to increase the sensitivity of the search

Time limitation: 2010 and before

Article type limitation: original research articles and reviews

No language restrictions

9088 records identified:

Agricola	67
Business Source Complete	935
CINAHL	768
Current Contents	1124
EBM reviews	169
ERIC	728
GeoRef	69
Food Science and Technology Abstracts	6
INSPEC	258
Library, Information Science & Technology	387
MEDLINE	821
PsycINFO	773
SCOPUS	1605
Web of Knowledge	1278

7703 overlapping
records excluded

1285 abstracts screened for
eligibility

1109 records excluded

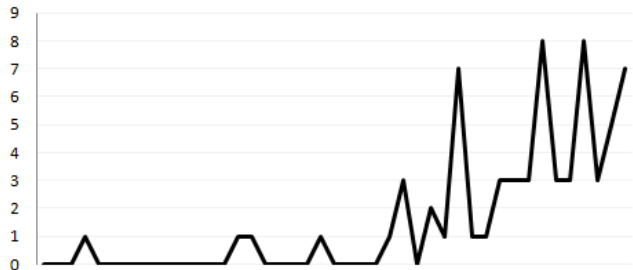
176 full text articles assessed for
inclusion in systematic review

61 articles excluded:
32 not research
22 not on authorship
7 no extractable data

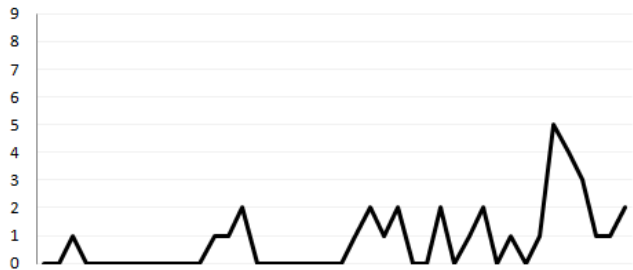
8 articles identified by
berry-picking search

123 articles included in
qualitative synthesis

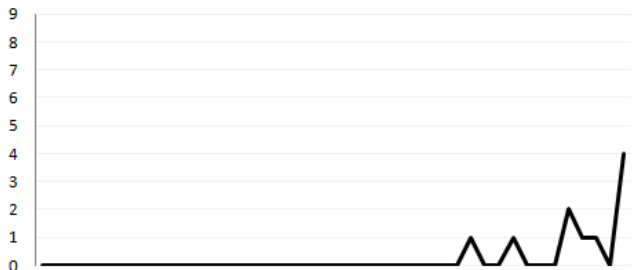
Health sciences



Social sciences



Natural sciences



Multidisciplinary



123 articles:

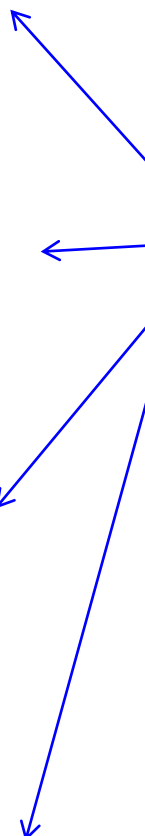
Health sciences = 66 (65 studies)

Social sciences = 33

Natural sciences = 9 (6 studies)

Multidisciplinary = 15 (14 studies)

Humanities = 0



Types of studies

Cross-sectional survey : 63 studies published in 65 articles (response rates 16% - 100%)

Descriptive studies: 32 studies published in 34 articles (1 was a test-retest study and 1 combined survey and intervention design)

Before and after study: 3 studies

Cohort study: 1 study

Randomized studies: 3 studies

Qualitative studies: 5 studies published in 6 articles

85 (72%) studies had methodological limitations

Four themes accros research disciplines

1. Authorship perceptions, definitions, and practices (n=58 articles)
2. Order of authors on the byline (n=45)
3. Ethical and unethical authorship practices (n=46)
4. Power issues in authorship (n=19)

Theme 1: Authorship perceptions, definitions, and practices

Conception of research
/ research design

Writing

Identified as most important contributions across
sciences, geographical regions and time



Authorship was thought to be deserved by non-researchers, including community/collective authorship

General lack of knowledge and use of authorship guidelines (health, physics, psychology)

Theme 1: Authorship perceptions, definitions, and practices

Contribution declaration in use in psychology since at least 1970, in medicine since 1990ties

ASSIGNMENT OF PUBLICATION CREDITS:

ETHICS AND PRACTICES OF PSYCHOLOGISTS¹

DON SPIEGEL,

AND

PATRICIA KEITH-SPIEGEL²

*Brentwood Hospital, Veterans Administration Center,
Los Angeles*

San Fernando Valley State College

American
Psychologist.
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² Additional contributors: (a) the 746 psychologists who completed the lengthy survey questionnaires on which this report is based, (b) Marilyn Crosslin who recorded most of the survey data, (c) William E. Wilsoncroft who was consulted during the planning phases of the project.

Requests for reprints should be sent to Patricia Keith-Spiegel, Department of Psychology, San Fernando Valley State College, Northridge, California 91324.

Theme 1: Authorship perceptions, definitions, and practices

Contribution declaration in use in psychology since at least 1970, in medicine since 1990ties but

- no effect on number of authors
- test-retest study showed low reliability of contribution declaration forms

Four qualitative studies:

- guiding factors in authorship decisions – *fairness*, *reciprocity* and *sponsorship*
- in physics, young researchers have to balance the practice of large group authorship with their individual need for recognition and promotion.

Theme 2: Authorship order

Amount of work and not prestige of position were the preferred method for determining authorship order

- reported exceptions: management research and economy

Alphabetical authorship stable in economy: 9.9% increase from 1974 to 1999 (82% decrease in medical journals)

0.41% increase in estimated salary return for an additional alphabetical article

First and last authors regarded as most important, especially in biomedicine

Recent trend of equal first (and last) authorships

Psychological Reports, 2000, 86, 771-788. © Psychological Reports 2000

PSYCHOLOGY OF THE SCIENTIST: LXXX.
ATTITUDES REGARDING AUTHORSHIP ISSUES
IN PSYCHOLOGICAL PUBLICATIONS¹

SIMON A. BARTLE, ALEXIS A. FINK, AND BRYAN C. HAYES

Old Dominion University



¹Since all authors contributed equally to the design, research, and writing of this article, order of authors is alphabetical. We thank Robert I. McIntyre for guidance on this project and the Department of Psychology at Old Dominion University for their administrative support. Address correspondence to Bryan C. Hayes, Department of Psychology, Old Dominion University, Norfolk, VA 23529-0267 or e-mail (bchayes@erols.com).

Theme 3: Authorship ethics

Across disciplines undeserved authorship or denial of authorship were considered unethical but were common practice (10% to 89% response in surveys)

Reasons for giving undeserved authorship include feelings of obligation, crediting past and future relationships, team responsibility and power relations.

Interventions to prevent undeserved authorship:

- when authorship decision was made during planning rather than later – 23% vs. 47% undeserved authorship

- ethics training did not affect willingness to give undeserved authorship

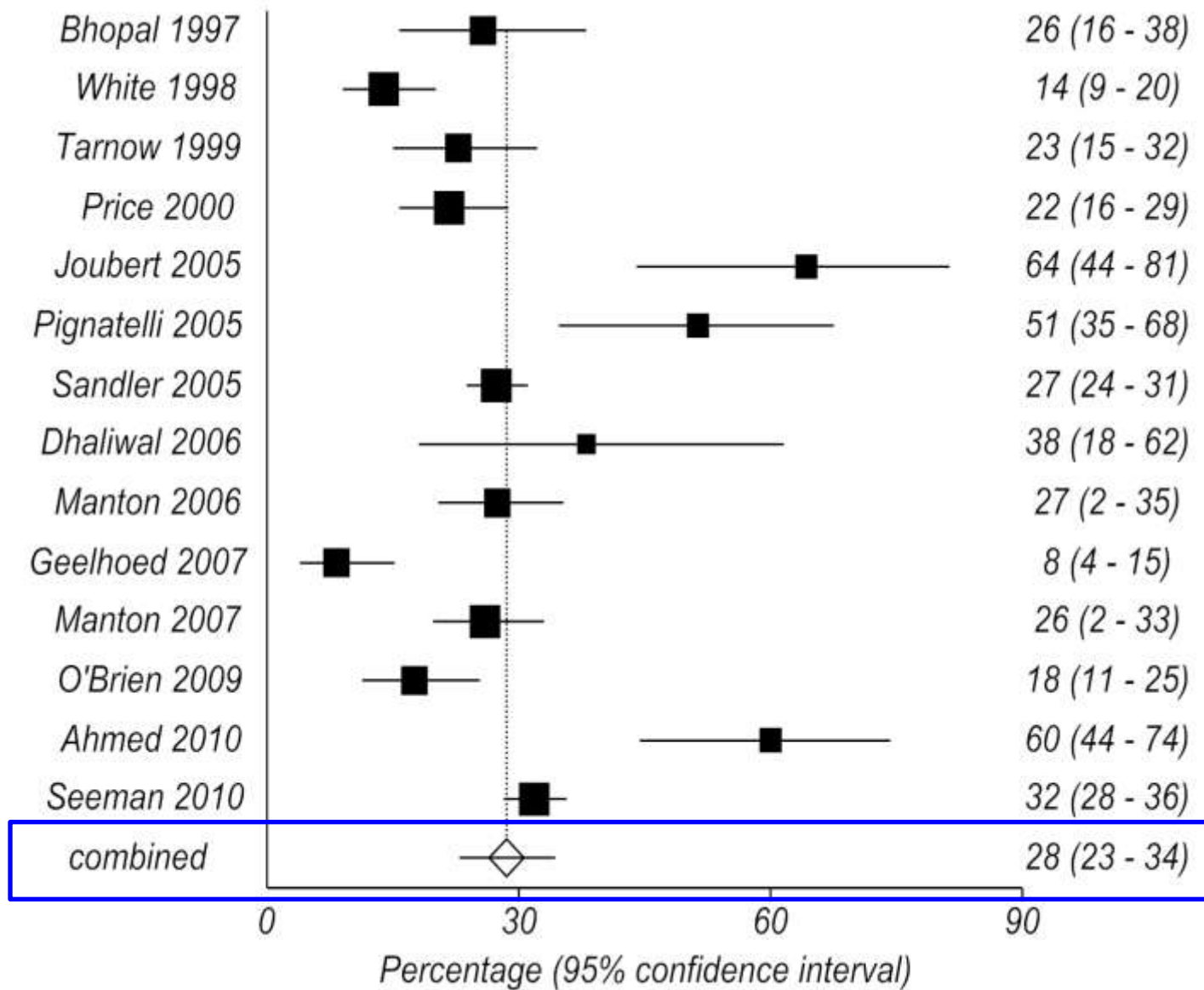
- Student with instruction on authorship criteria give more value to contributions from authorship definition

Metaanalysis

Reports of problems with and/or misuse of authorship in surveys – 14 studies

Dana transformed with Freeman-Tukey variant of the arcsine square root (Stuart&Ord, 1994).

Pooled proportion was calculated as the back-transform of weighted mean of the transformed proportions, using inverse arcsine variance weights for the fixed effects and DerSimonian-Laird weights for random effects model (DerSimonian&Laird, 1986)



Heterogeneity of the studies and assessment of bias:

Significant heterogeneity

Cochran Q = 109.4; df=13; $P < 0.0001$

Indicators of bias:

Begg-Mazumdar: Kendall's tau=0.319, $P=0.127$

Egger: bias=2.035 (95% CI -1.777 to 5.847), $P=0.267$

Harbord: bias = 1.202 (92.5% CI -2.161 to 4.565),
 $P=0.499$

Subgroup analysis: health research vs. other disciplines

Pooled weighted estimate (random effects):

health (n=7) 38% (95% CI 25 to 52)

non-health (n=7) 23% (95% CI 17 to 29)

Significant heterogeneity for both subgroups
($P < 0.0001$)

Indicators of bias not significant but low power

Theme 4: Power issues in authorship

Fairness of the research collaboration between professors and students , especially for publications from the thesis - important issues in psychology

also reported in nursing, multidisciplinary areas, accounting, social work, ecology, agriculture, education research

Search of journals' guidelines – Thomson Reuters databases:

1. Journal Citation Reports (JCR)

- First 5 journals with highest impact factor from 21 out of 172 categories of the Science Citation Index
- First 5 journals with the highest impact factor from 15 out of 55 categories of the Social Sciences Citation Index

2. Arts & Humanities Citation Index

- First 5 journals on the list of 10 general out of 27 major categories of the A&HCI

No duplications

Thomson Reuters databases

Authorship statement	Citation index		
	SCI (n=110)	SSCI (n=75)	A&HCI (n=260)
No. journals with statement regarding authorship	58 (53%)	24 (32%)	16 (6%)
Source of definition:			
own definition	25 (43%)	3 (13%)	4 (25%)
definition from a professional association	13 (22%)	5 (21%)	0
definition from a publisher	20 (35%)	16 (67%)	12 (75%)

Codes of ethics from professional societies, corporations, government and academic (<http://ethics.iit.edu/codes>)

No authorship statement	557 (86%)
Authorship statement	71 (11%)
Information not available	23 (4%)

Center for the Study of Ethics in the Professions

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CODES OF ETHICS ONLINE

HUB Mezzanine, Room 204, 3241 S. Federal Street, Chicago, IL 60616-3793

Tel: 312.567.6913, Fax: 312.567.3016, email: csep@iit.edu

Types of the statements

Statement category*	Citation index			Ethics codes† (n=71)
	SCI (n=58)	SSCI (n=24)	A&HCI (n=16)	
Giving proper credit (non specific)	33 (57%)	21 (88%)	12 (75%)	56 (79%)
Criteria for authorship	47 (81%)	24 (100%)	16 (100%)	23 (32%)
Honorary or „gift“ authorship	0	0	0	1 (1%)
Including all persons who merit authorship (includes statements on acknowledging all personnel's contributions)	49 (85%)	20 (83%)	12 (75%)	18 (25%)
Order of authorship	0	5 (21%)	0	9 (13%)
Authors take responsibility for work/obtaining consent to publish from all authors	39 (67%)	19 (79%)	12 (75%)	5 (7%)

*Categorization according to Rose MR, *Science Editing & Information Management* 1999

Definitions: Elsevier

Authorship should be limited to those who have made a significant contribution to the conception, design, execution, **or** interpretation of the reported study. All those who have made significant contributions should be listed as co-authors. Where there are others who have participated in certain substantive aspects of the research project, they should be acknowledged or listed as contributors.

Definitions: Wiley – Blackwell

Wiley-Blackwell recommends that journal editors consider adopting the **ICMJE** authorship criteria as part of their editorial policy. The ICMJE authorship criteria state 'authorship credit should be based on 1) substantial contributions to conception and design, **or** acquisition of data, **or** analysis and interpretation of data; **(and)** 2) drafting the article **or** revising it critically for important intellectual content; **and** 3) final approval of the version to be published. Authors should meet conditions 1, 2, and 3.'

Wiley-Blackwell recommends that editors ask authors to submit a short description of all contributions to their manuscript. Each author's contribution should be described in brief. Authors of research papers should state whether they had complete access to the study data that support the publication. Contributors who do not qualify as authors should also be listed and their particular contribution described. This information should appear as an acknowledgement.

Tone of the statements

Statement source	Tone	
	normative	aspirational
SCI journals (n=58)	11 (19%)	47 (81%)
SSCI journals (n=24)	4 (17%)	20 (83%)
A&HCI journals (n=16)	3 (19%)	13 (81%)
All journals (n= 98)	18 (18%)	80 (82%)
Ethics codes (n=71)	53 (75%)	18 (25%)

$X^2_1=51.245$

$P<0.0001$

COPE - Guidelines on Good Publication Practice, 1999

There is no universally agreed definition of authorship, although attempts have been made (see Appendix). As a minimum, authors should take responsibility for a particular section of the study.

(1) The award of authorship should balance intellectual contributions to the conception, design, analysis and writing of the study against the collection of data and other routine work. If there is no task that can reasonably be attributed to a particular individual, then that individual should not be credited with authorship.

(2) To avoid disputes over attribution of academic credit, it is helpful to decide early on in the planning of a research project who will be credited as authors, as contributors, and who will be acknowledged.

(3) All authors must take public responsibility for the content of their paper. The multidisciplinary nature of much research can make this difficult, but this can be resolved by the disclosure of individual contributions.

(4) Careful reading of the target journal's "Advice to Authors" is advised, in the light of current uncertainties.

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Department of Research in
Biomedicine and Health:

Lana Bošnjak
Ana Jerončić

Thank you.
ana.marusic@mefst.hr