### Re-envisioning a future in scholarly communication: A network approach

MARINO VAN ZELST & CHRIS HARTGERINK

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Time for a little quiz..

In which years were these paper published?



### MICRODYNAMICS IN DIVERSE TEAMS: A REVIEW AND INTEGRATION OF THE DIVERSITY AND STEREOTYPING LITERATURES

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Research on the consequences of diversity in teams continues to produce inconsistent results. We review the recent developments in diversity research and identify two shortcomings. First, an understanding of the microdynamics affecting processes and outcomes in diverse teams is lacking. Second, diversity research has tended to treat different social categories as equivalent and thus not considered how members' experiences may be affected by their social category membership. We address these shortcomings by reviewing research on stereotypes, which indicates that stereotypes initiate reinforcing microdynamics among (a) attributions of a target team member's warmth and competence. (b) perceiving members' behavior toward the target team member, and (c) the target team member's behavior. Our review suggests that perceivers' impression formation motivation is the key determinant of the extent to which perceivers continue to treat a target based on categorization. On the basis of our review, we provide an integrative perspective and corresponding model that outlines these MIcrodynamics of Diversity and Stereotyping in Teams (MIDST) and indicates how stereotyping can benefit as well as harm team functioning. We discuss how this integrative perspective on the MIDST relates to the social categorization and the information/decision-making perspective, set a research agenda, and discuss the managerial implications.

### INTRODUCTION

Globalization, demographic changes, and the increased use of teams in contemporary organizations have created a surge in research on the consequences of different team members working together (Harrison & Klein, 2007). The many recent meta-analyses on the consequences of team diversity signify the considerable amount of attention that has been given to this field of study (e.g., Bell, 2007; Bell, Villado, Lukasik, Belau, & Briggs, 2011; Horwitz & Horwitz,

2007; Joshi & Roh, 2009; van Dijk, van Engen, & van Knippenberg, 2012a). For the past two decades, diversity research has mainly relied on a dual theoretical approach where the social categorization and the information/decision-making perspectives inform answers to the questions why and how diversity affects team performance (Milliken & Martins, 1996; van Knippenberg, De Dreu, & Homan, 2004; Williams & O'Reilly, 1998). There is much that we have learned from these perspectives, but despite the fact that theories have been advanced and research models have become more sophisticated, so far the main conclusion that has been drawn is that research on the relationship between team diversity and team performance is inconclusive (Harrison & Klein, 2007; Meyer, in press; van Dijk et al., 2012a; van Knippenberg & Schippers, 2007). In the quest for

<sup>\*</sup>Corresponding author

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### ORGANIZATIONAL CONFIGURATIONS AND PERFORMANCE: A META-ANALYSIS

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The link between organizational configurations and performance has become a central and somewhat controversial focus of research in the strategic management literature. We statistically aggregated results from 40 original tests of the configurations-performance relationship. In contrast to previous qualitative reviews, this meta-analysis demonstrated that an organization's performance is partially explained by its configuration. Tests of four potential moderators showed that organizations' configurations contributed more to performance explanation to the extent that studies used (1) broad definitions of configurations, (2) single-industry samples, and (3) longitudinal designs. Results highlight the need for programmatic research.

This article originated as a class project in a doctoral seminar led by the third author. We would like to thank John Hunter for his advice and assistance in using the meta-analysis procedures and for providing the software for conducting the meta-analyses and deriving estimates of omega (a) and the standard error of omega. We are also grateful for the constructive comments provided by David Deephouse, William Glick, Timothy Palmer, John Prescott, and Charles Snow.



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### A QUANTITATIVE SCALE FOR RATING THE HOME AND SOCIAL ENVIRONMENT OF MIDDLE CLASS FAMILIES IN AN URBAN COMMUNITY: A FIRST APPROXIMATION TO THE MEASUREMENT OF SOCIO-ECONOMIC STATUS\*

### F. STUART CHAPIN

### University of Minnesota

The measurement of socio-economic status is a problem of considerable interest.† To the student of human behavior it is important whenever research requires a quantitative measure of the social environment in order that this factor or group of factors may be equated in experimental study. To the social worker the measurement of socio-economic status is important whenever it is desired to secure an objective measure of the home environment for purposes of placing children in foster homes.

The purposes of this article are to explain and make available: First, for research workers, a rough scale for rating the home and the social environment in order to permit the equating of these factors in experimental study; and second, for social workers, an objective measure of the home environment for prospective foster homes.

Although we wish to measure socio-economic status it is not easy to agree on a definition that will be adequate for all purposes. Consequently the following definition is arbitrarily made and offered for what it is worth as an assumption from which to start in an attempt to measurement.

Socio-economic status is the position that an individual or a family occupies with reference to the prevailing average standards of cultural possessions, effective income, material possessions, and participation in group activity of the community. In this definition we arbitrarily assume for purposes of making a start in the study of this problem, that there are the four objective and measurable elements in family life just enumerated.

<sup>†</sup> From the Department of Sociology and the Institute of Child Welfare University of Minnesota.

<sup>\*</sup> See bibliography at end of paper referred to in footnote by numbers.

The author is indebted to the following graduate students for assistance in this study: Mrs. M. K. Doyle, Mrs. Anne F. Fenlason, Harold Hosea, Mildred Parten, Ruth R. Pearson, Madga Skalet, Marjorie Walker and Sanford Winston.

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### THE REAL SIMON PURE.

Two or three weeks since, we promised to give a complete exposure of the piratical delinquency of Mr. Tyrrell, of "Hole and Corner" notoriety, by comparing some paragraphs from his volume of published Lectures with paragraphs from the previously published Lectures in the pages of this work. This we shall now proceed to do, and will take a passage from every tenth page of SIMON'S book, beginning at page 136, where is contained the SNARE into which the unconscious SIMON PURE so unwittingly fell.

But chronic abscesses are slower in But chronic abscesses are slower in their march; take, for example, the their march; take, for example, the psoas abscess to which we have al- psoas abscess to which we have alluded; it is often six months before luded; it is often six months before matter makes its appearance in that matter makes its appearance in that complaint. If a person applies to you complaint. If a person applies to you with a psoas abscess, and you ask how with a psoas abscess, and you ask how long he has had pain in his loins, he long he has had pain in his loins, he will tell you for four, five, or six will tell you for four, five, or six months months past .- Simon, p. 146.

will be attended with a slight fever, will be attended with a slight fever. but not of the hectic kind; the tongue but not of the hectic kind; the tongue will be clean, the pulse very little af- will be clean, the pulse very little affected, and the person very slightly fected, and the person very slightly deranged, but after an opening is made deranged, but after an opening is into the part, constitutional irritation made into the part, constitutional irricomes on, and life is then endangered. tation sometimes comes on, and life -SIMON, p. 156.

perform an operation for a scirrhous perform an operation for a scirrhous breast, to which arsenic had been ap- breast, to which arsenic had been applied. I asked the woman which gave plied. I asked the woman which gave her the most pain, the application of her the most pain, the application of the arsenical preparation, or the operation. She replied, that the pain of ration. She replied, that the pain of the operation was not greater than the operation was not greater than that of the application, and that the that of the application, and that the arsenic had been applied ten or eleven arsenic had been applied ten or eleven times.-Simon, p. 166.

Now some of you might be induced Now, said Sir Astley, in looking at to exclaim, How abominably inatten- a case like this, some of you might be tive must the medical man have been, induced to exclaim, How abominably who had the care of this patient; for inattentive must the medical manhave all these consequences might have been who had the care of this patient; been prevented. If you said this, for all these consequences might have your censure would be culpable; you been prevented. If you said this, have no right to say so; for it is a case your censure would be culpable; you which might happen to any of you, have no right to say this; for it is a Deformities of this kind generally case which might happen to any of arise after the process of healing is you. Deformities of this kind genecompleted; they are the effects of the rally arise after the process of healing contraction of the cicatrices. - SIMON, is completed; they are the effects of page 176.

past .- THE LANCET, vol 1. p. 129.

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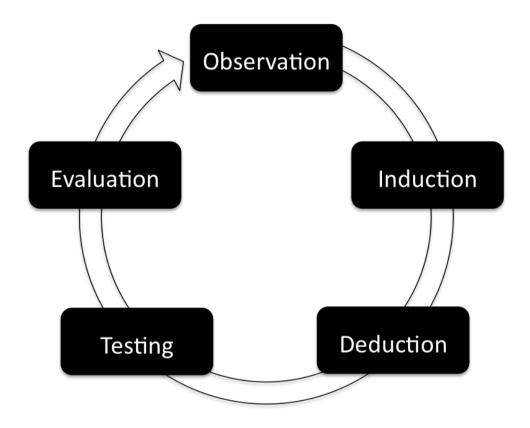
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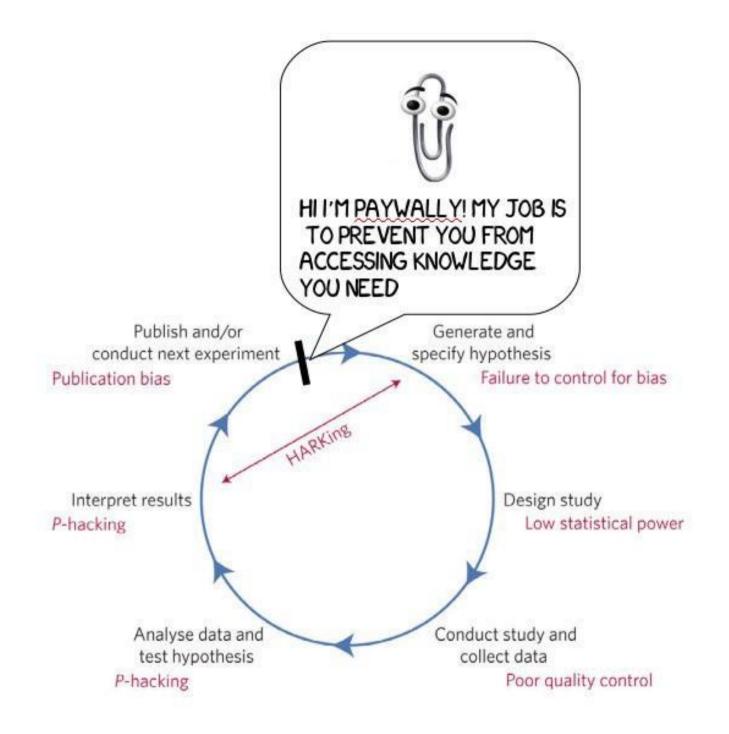
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# Thought exercise: What scholarly communication system could we come up with today?







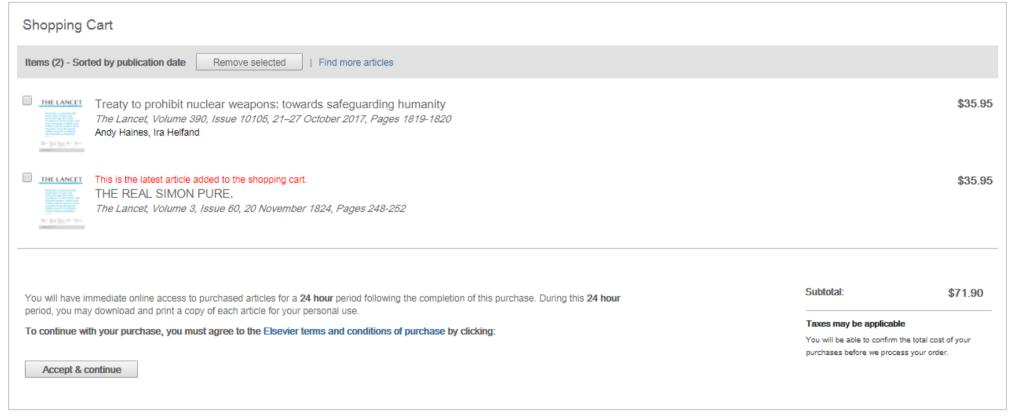






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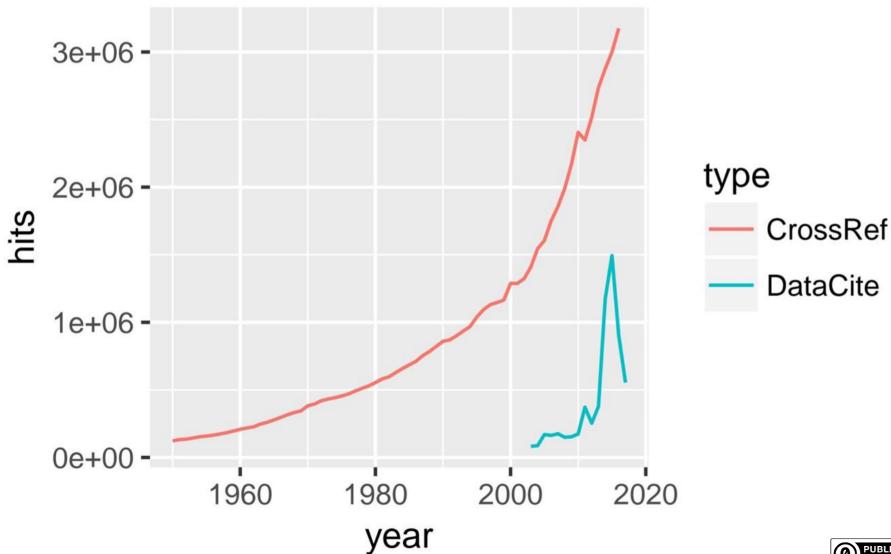
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### Duct tape solutions won't last!

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# Duct tape solutions won't last! Because they don't solve the problem!

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Academics pressure publisher as Beijing mouthpiece says western institutions can leave if they don't like 'the Chinese way'



### Single point(s) of failure



Tags: Piracy, Russia (3), Science (2)

Sci-Hub is blocked in Russia; Founder says she's been bullied by scientists

Just yesterday I was excited to <u>tell you about CyberLeninka</u>, a large open database of scientific papers, which was backed by a local investor. Today I am sorry to state that <u>Sci-Hub</u>, a very popular archive of illegally downloaded scientific papers, has been banned in Russia.

# Single point of failures removed by increasing inclusiveness: redistribution!

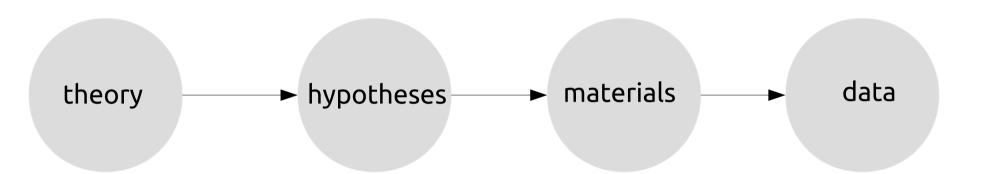
Open access: knowledge inclusion Closed access: knowledge discrimination

Conclusion: we need a new way of communicating about knowledge!



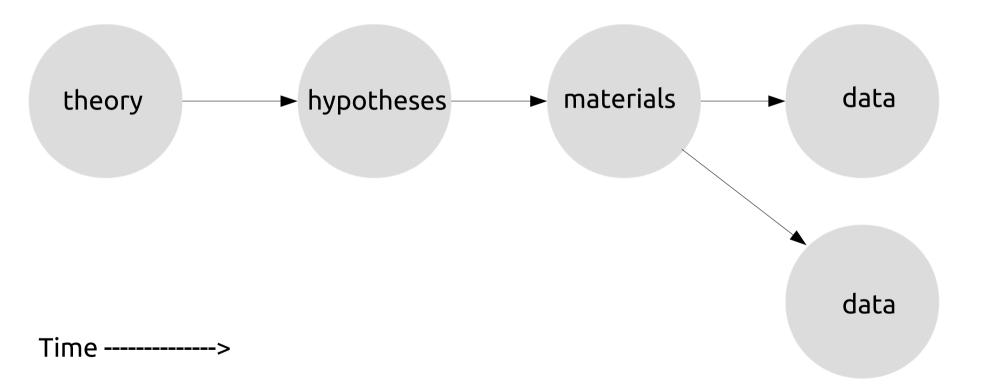
- Slice paper elements (theory, hypotheses, data, results) into separate nodes
  - 2) Let nodes contain content as 'usual'
  - 3) Create possibility to link nodes for cumulative knowledge building and automated 'communication' between nodes
- 4) Publish nodes in completely open infrastructure (Dat network) that is decentralized and ensures content integrity



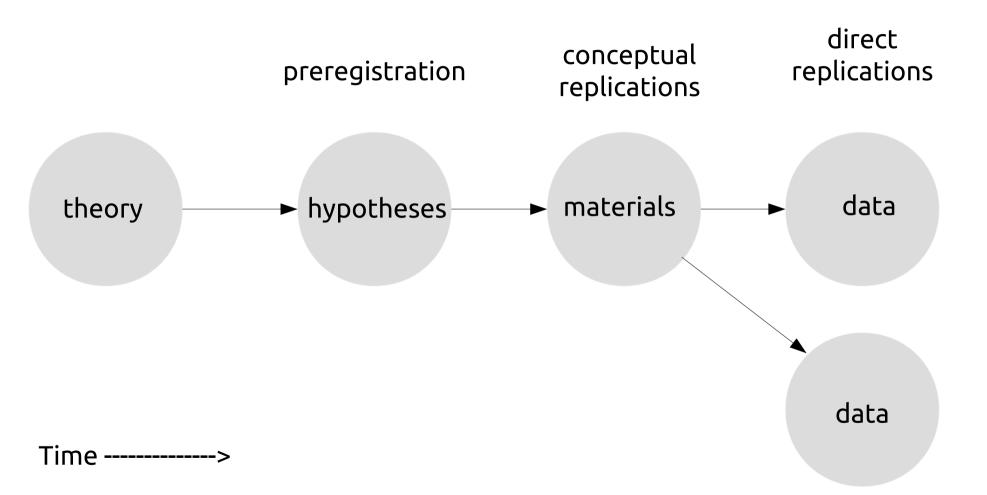


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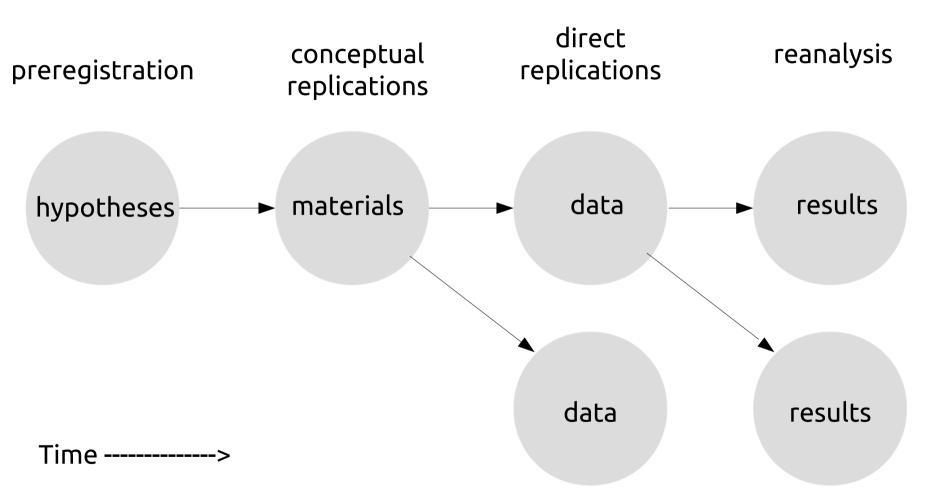














## Put all of this on Peer2Peer network 'dat' Append only!

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Open access for all

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Competition of services over the network



### New performance metrics (WiP):

- Various centrality measures of nodes
- Cumulativity of a researcher's output

Assess groups of researchers by looking at subsets of nodes of the network



### New performance metrics (WiP):

Looking for someone new to hire for your professorship or department?

Assess how nodes of potential candidate 'fit' with 'network' of your group



# Papers won't solve the problems papers cause

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