

Research Methods in computer science

Fall 2021

Lecture 21

Omprakash Gnawali

November 3, 2021

Agenda

Conference Updates

Co-authorship

Disclosures

Human subject research responsibility

HW10

Co-authorship

Green Enterprise Computing Data: Assumptions and Realities

Maria Kazandjieva, Brandon Heller, Omprakash Gnawali *, Philip Levis, and Christos Kozyrakis
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Who did the work?

Contribution levels

Co-author

Acknowledgment

Order of authors

Convention may vary across fields

Sunday, October 9, 2016

7:30 - 8:45

Continental Breakfast - Prefunction (outside Garden State)

Session 1.1a - Regency BC

Session 1.1b - Garden State ABC

9:00 - 9:20

[Bounded-Communication Leakage Resilience via Parity-Resilient Circuits](#)

Vipul Goyal, Yuval Ishai, Hemanta K. Maji, Amit Sahai, Alexander Sherstov, Hemanta Maji

[Strong Fooling Sets for Multi-Player Communication with Applications to Deterministic Estimation of Stream Statistics](#)

Amit Chakrabarti, Sagar Kale

9:25 - 9:45

[Indistinguishability Obfuscation from DDH-like Assumptions on Constant-Degree Graded Encodings](#)

Huijia Lin, Vinod Vaikuntanathan

[Edit Distance: Sketching, Streaming and Document Exchange](#)

Djamal Belazzougui, Qin Zhang

9:50 - 10:10

[Breaking the Three Round Barrier for Non-Malleable Commitments](#)

Vipul Goyal, Dakshita Khurana, Amit Sahai

[Heavy Hitters via Cluster-preserving Clustering](#)

Kasper Green Larsen, Jelani Nelson, Huy L. Nguyen, Mikkel Thorup

10:15 - 10:35

[Zero-knowledge Proof Systems for QMA](#)

Anne Broadbent, Zhengfeng Ji, Fang Song, John Watrous

[Optimal Quantile Approximation in Streams](#)

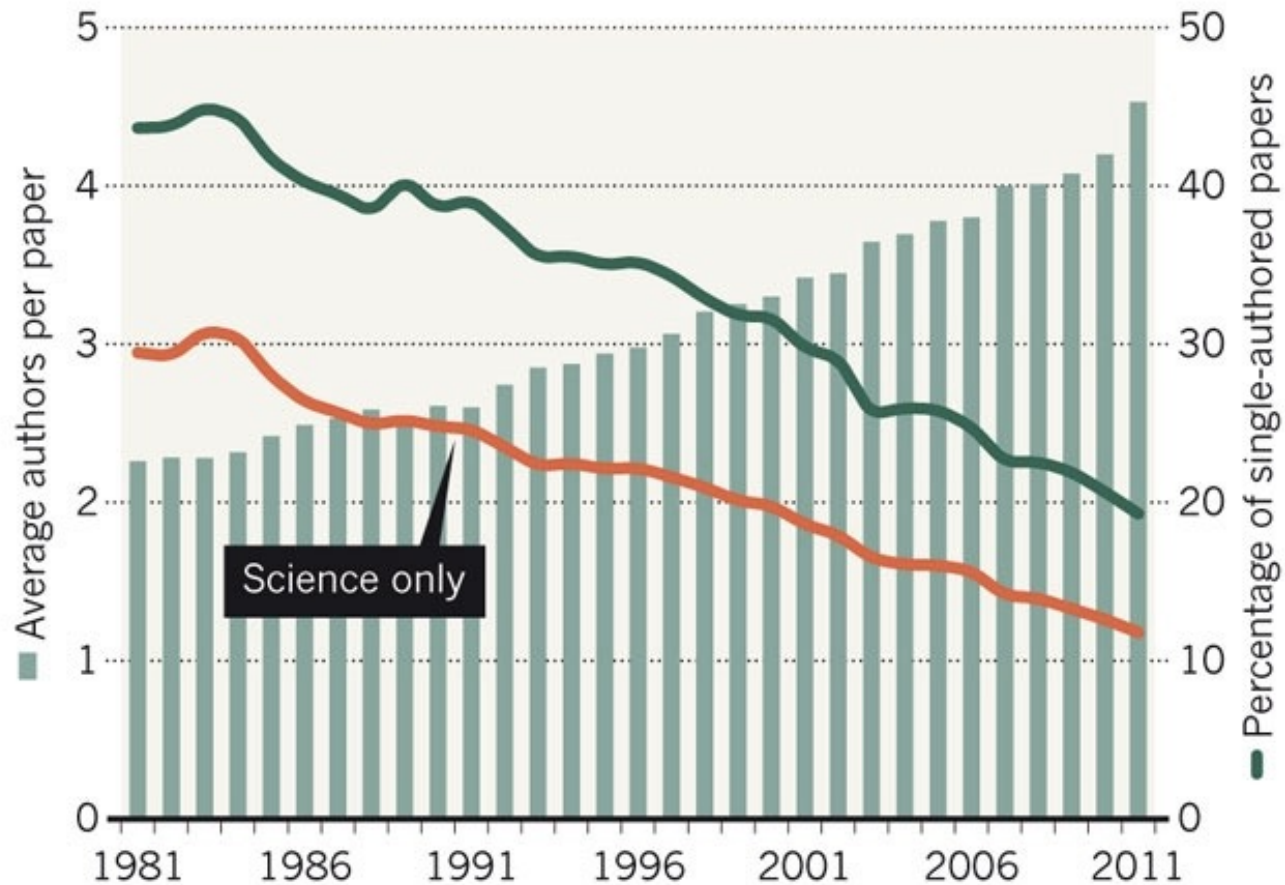
Zohar Karnin, Kevin Lang, Edo Liberty

<http://dimacs.rutgers.edu/FOCS16/Program/schedule.html>

Notice the order of authors

DECLINE OF THE SINGLE AUTHOR

The average number of authors on a research paper rose to 4.5 last year; fewer than one in five were single-authored.



<http://www.nature.com/news/seven-days-3-9-august-2012-1.11139#/trend>

Lots of coauthors...

<http://journals.aps.org/prl/pdf/10.1103/PhysRevLett.114.191803>

<http://www.g3journal.org/content/5/5/719>

ventricular dysfunction as of computed tomography.

aimed to address concerns that oral anticoagulants may confer a higher risk of bleeding in high-risk patients with renal impairment and body weight.¹² We identified that 15% of patients with these characteristics achieved efficacy with significantly less bleeding than that observed in the

active with the comparator, warfarin therapy was proactively managed throughout the study. This resulted in 95% of patients achieving the therapeutic range of

to standard therapy with warfarin after initial heparin, with significantly less bleeding.

Supported by Daiichi-Sankyo.

Dr. Büller reports receiving consulting fees from Bayer, Boehringer Ingelheim, Bristol-Myers Squibb, Isis Pharmaceuticals, and ThromboGenics, and grant support from Bayer and Pfizer. Dr. Décousus reports receiving fees for board membership from Bayer and Daiichi Sankyo, lecture fees from GlaxoSmithKline, and grant support from Bayer, Bristol-Myers Squibb–Pfizer, Boehringer Ingelheim, and Portola. Drs. Grosso, Mercuri, Schwocho, and Shi report being employees of Daiichi Sankyo. Dr. Middeldorp reports receiving consulting fees from Bayer and Bristol-Myers Squibb–Pfizer, lecture fees from Bayer, GlaxoSmithKline, Bristol-Myers Squibb–Pfizer, and Boehringer Ingelheim, and grant support from GlaxoSmithKline, Bristol-Myers Squibb–Pfizer, and Sanquin. Dr. Prins reports receiving consulting fees from Bayer, Pfizer, and Boehringer Ingelheim, and lecture fees from Bayer. Dr. Raskob reports receiving consulting fees and travel support from Bayer, Bristol-Myers Squibb, Janssen, Johnson & Johnson, Pfizer, Sanofi-

Financial disclosure to understand potential conflict of interest

Authorship credit should be based on 1) substantial contributions to conception and design, acquisition of data, or analysis and interpretation of data; 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.

When a large, multicenter group has conducted the work, the group should identify the individuals who accept direct responsibility for the manuscript. These individuals should fully meet

the criteria for authorship/contributorship defined above, and editors will ask these individuals to complete journal-specific author and conflict-of-interest disclosure forms. When submitting a manuscript authored by a group, the corresponding author should clearly indicate the preferred citation and identify all individual authors as well as the group name. Journals generally list other members of the group in the Acknowledgments. The NLM indexes the group name and the names of individuals the group has identified as being directly responsible for the manuscript; it also lists the

names of collaborators if they are listed in Acknowledgments.

Acquisition of funding, collection of data, or general supervision of the research group alone does not constitute authorship.

All persons designated as authors should qualify for authorship, and all those who qualify should be listed.

Each author should have participated sufficiently in the work to take public responsibility for appropriate portions of the content.

Additional Supporting Information may be found in the online version of this article.

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Funding agencies: This study was supported by a grant from GlaxoSmithKline.

Relevant conflicts of interest/financial disclosures: Nothing to report.

Full financial disclosures and author roles may be found in the online version of this article.

Received: 23 April 2012; **Revised:** 10 July 2012; **Accepted:** 27 July 2012

Published online 2 October 2012 in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/mds.25162

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Please indicate each author's contribution(s) to the manuscript, using the numbered list below.

1. Conception and design
2. Provision of study material or patients
3. Collection and/or assembly of data
4. Data analysis and interpretation
5. Manuscript writing
6. Final approval of manuscript
7. Other (financial and administrative support)

Author's Name

Contribution(s) (Use item numbers from above.)

7 Acknowledgments

Many contributed to the Chubby system: Sharon Perl wrote the replication layer on Berkeley DB; Tushar Chandra and Robert Griesemer wrote the replicated database that replaced Berkeley DB; Ramsey Haddad connected the API to Google's file system interface; Dave Presotto, Sean Owen, Doug Zongker and Praveen Tamara wrote the Chubby DNS, Java, and naming protocol-converters, and the full Chubby proxy respectively; Vadim Furman added the caching of open handles and file-absence; Rob Pike, Sean Quinlan and Sanjay Ghemawat gave valuable design advice; and many Google developers uncovered early weaknesses.

Use Acknowledgments
for more than listing
the grants

8. ACKNOWLEDGMENTS

Steve Newman, Jonas Karlsson, Philip Zeyliger, Alex Dingle, and Peter Stout all made substantial contributions to Megastore. We also thank Tushar Chandra, Mike Burrows, and the Bigtable team for technical advice, and Hector Gonzales, Jayant Madhavan, Ruth Wang, and Kavita Guliani for assistance with the paper. Special thanks to Adi Ofer for providing the spark to make this paper happen.

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Human Subject Research

Recap from last time

Examples in Computer Science research

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HW10

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