

Why SICSS?

Bamberg Summer Institute in Computational Social
Science

Carsten Schwemmer, University of Bamberg

2019-07-29

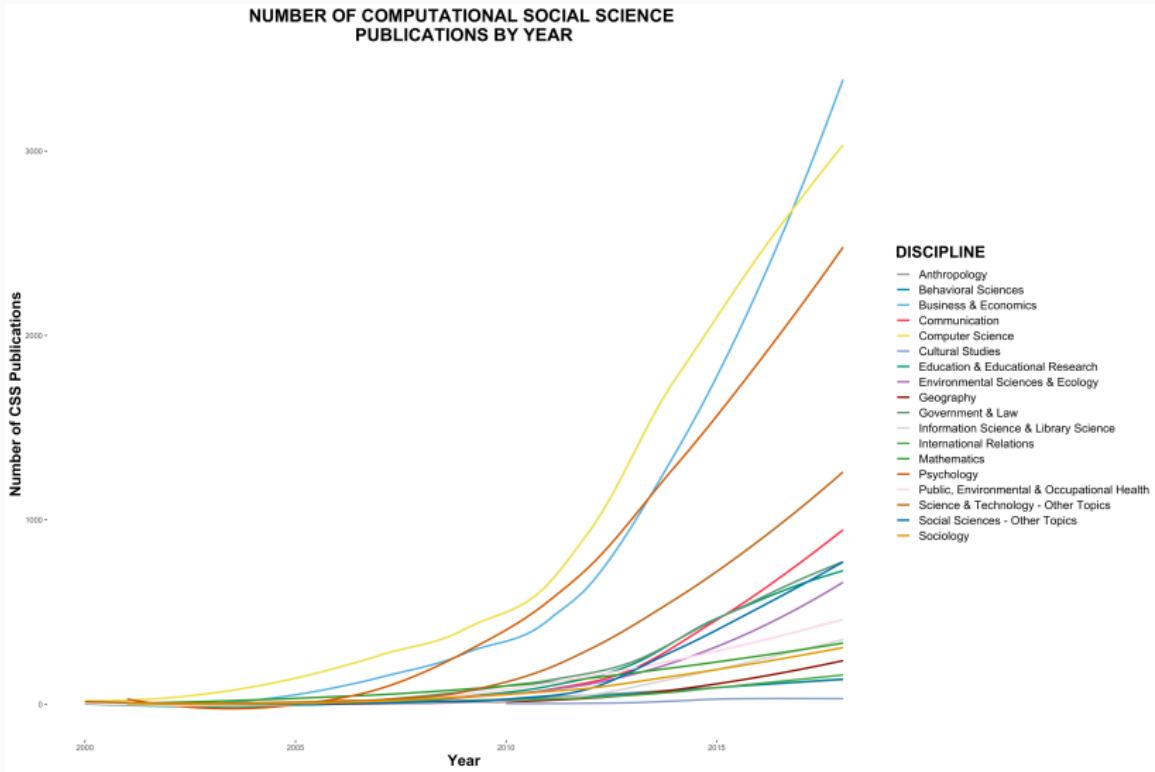
Many thanks to Chris Bail for providing material for this lecture

Why SICSS?

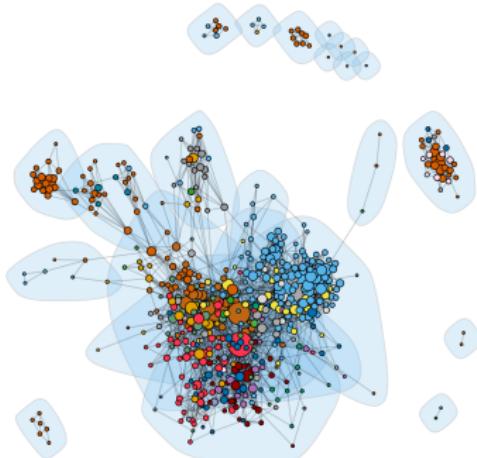
Big problems in the world



Our field is growing

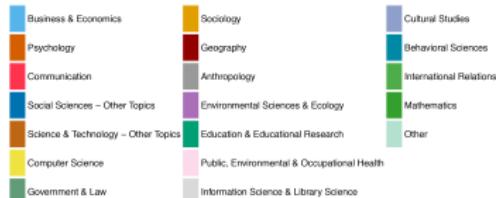


Our field is interdisciplinary



COMPUTATIONAL SOCIAL SCIENCE AS A NETWORK

Nodes colored by first-listed discipline



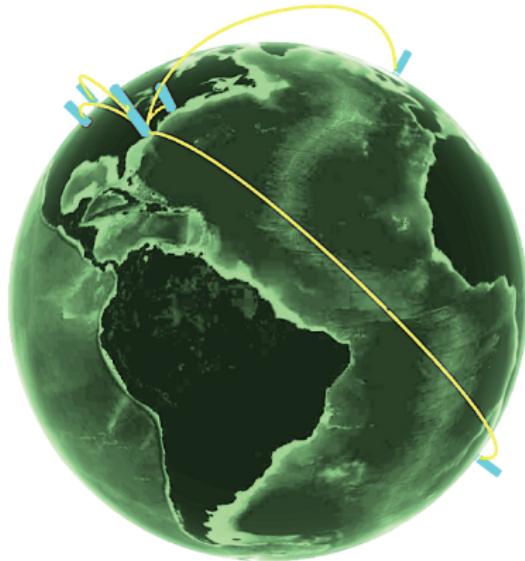
<https://www.chrisbail.net/post/mapping-computational-social-science>

Training opportunities are rare

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<li><a href="home-events.html">Home Events</a></li>
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    <ul>
        <li><a href="tall-button-header.html">Tall Button Header</a></li>
        <li><a href="image-logo.html">Image Logo</a></li>
        <li class="active"><a href="tall-logo.html">Tall Logo Images</a>
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    </ul>
<li class="has-children"> <a href="#">Carousels</a>
    <ul>
        <li><a href="variable-width-slider.html">Variable Image Sliders</a>
        <li><a href="testimonial-slider.html">Testimonial Sliders</a>
        <li><a href="featured-work-slider.html">Featured Work Sliders</a>
        <li><a href="equal-column-slider.html">Equal Column Sliders</a>
        <li><a href="video-slider.html">Video Sliders</a></li>
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SICSS as a possible solution

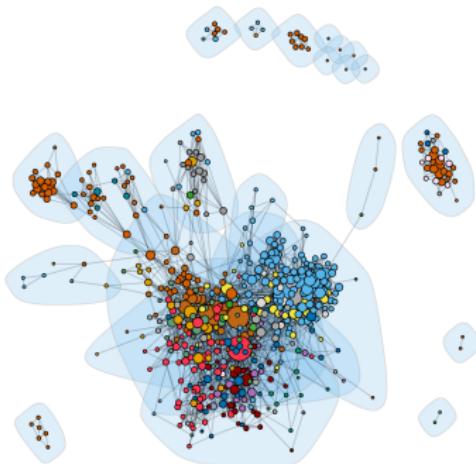
SICSS



Goal 1: provide state-of-the-art training

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Goal 2: challenge disciplinary divides



COMPUTATIONAL SOCIAL SCIENCE AS A NETWORK

Nodes colored by first-listed discipline

Business & Economics	Sociology	Cultural Studies
Psychology	Geography	Behavioral Sciences
Communication	Anthropology	International Relations
Social Sciences – Other Topics	Environmental Sciences & Ecology	Mathematics
Science & Technology – Other Topics	Education & Educational Research	Other
Computer Science	Public, Environmental & Occupational Health	
Government & Law	Information Science & Library Science	

Goal 2: challenge disciplinary divides

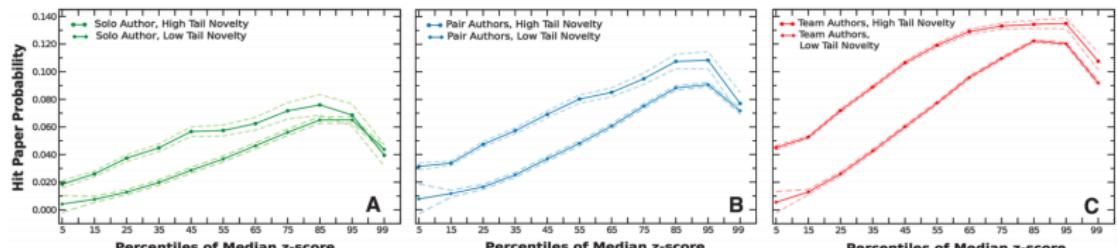
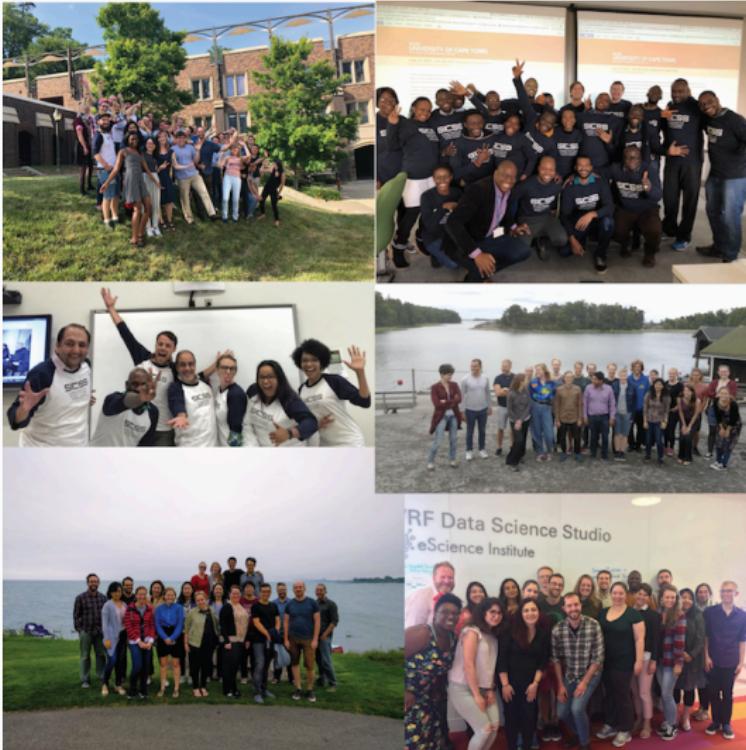


Fig. 4. Novel and conventional combinations in the production of science. (A to C) The interplay between tail novelty, median conventionality, and hit paper probabilities shows remarkable empirical regularities. First, high tail novelty papers have higher impact than low tail novelty papers at (i) any level of conventionality and (ii) regardless of authorship structure. Second, increasing median conventionality is associated with higher impact up to the

85 to 95th percentile of median conventionality, after which the relationship reverses. Third, larger teams obtain higher impact given the right mix of tail novelty and median conventionality. Nonetheless, at low levels of median conventionality and tail novelty, even teams have low impact, further emphasizing the fundamental relationship between novelty, conventionality, and impact in science.

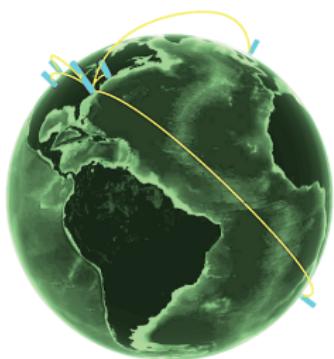
https://link.springer.com/chapter/10.1007/978-3-319-45023-0_12

Goal 3: reach a broad audience



Goal 3: reach a broad audience

SICSS



SICSS

June 16 to June 29, 2019 | Princeton University

SICSS
MONTERREY

Summer Institute in Computational Social Science Partner Site

SICSS
ZURICH, SWITZERLAND

Summer Institute in Computational Social Science Partner Site

SICSS
BAMBERG

Summer Institute in Computational Social Science Partner Site

SICSS
UNIVERSITY OF CAPE TOWN

Summer Institute in Computational Social Science Partner Site

SICSS
ISTANBUL

Summer Institute in Computational Social Science Partner Site

SICSS
RESEARCH TRIANGLE PARK, NC

Summer Institute in Computational Social Science Partner Site

SICSS
LOS ANGELES

Summer Institute in Computational Social Science Partner Site

SICSS
**SILBERMAN SCHOOL OF SOCIAL WORK,
HUNTER COLLEGE AT THE CITY
UNIVERSITY OF NEW YORK**

Summer Institute in Computational Social Science Partner Site

SICSS
CHICAGO

Summer Institute in Computational Social Science Partner Site

SICSS
OXFORD

Summer Institute in Computational Social Science Partner Site

Goal 4: open-source

All materials for lectures and group activities (slides, images, R Markdown files, data) will be available on Github:

[https://github.com/compsocialscience/
summer-institute/tree/master/2019/bamberg/
materials](https://github.com/compsocialscience/summer-institute/tree/master/2019/bamberg/materials)

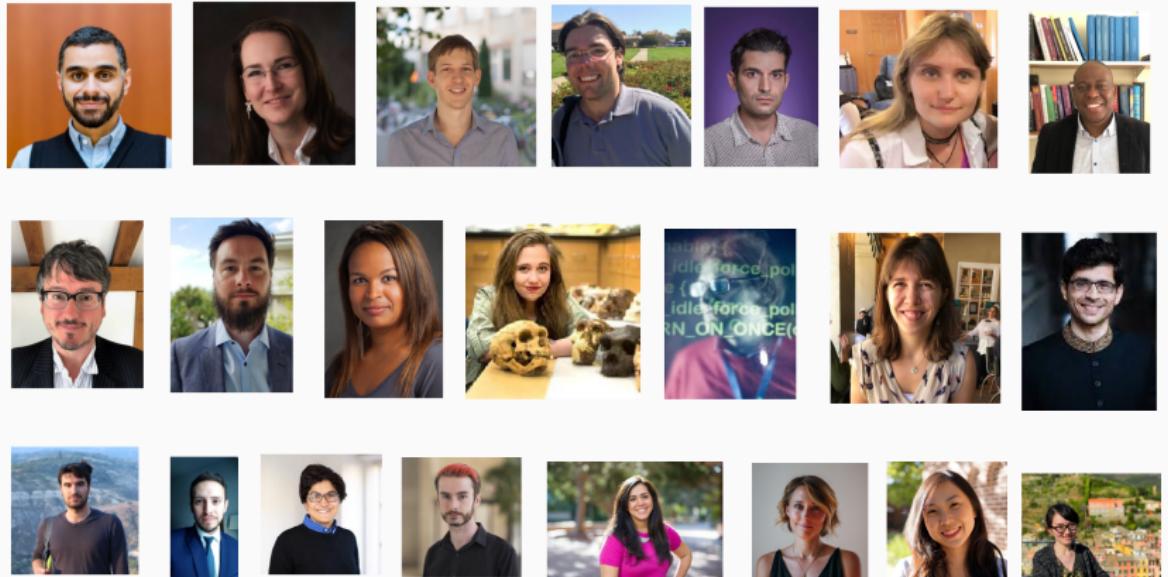


Summer Institute in Computational Social Science Partner Site

July 28 - August 09, 2019 | University of Bamberg

Partner location for SICSS organised at Princeton University

Goal 5: teach the teachers



Goal 6: create a diverse community



How SICSS works

Schedule

Morning	Lectures by Matt/Chris/Site Leaders	Research Speed Dating	Group Research Projects	
Afternoon	Group Exercises			Presentations
Week #1		Week #2		
Lunch/ Dinner	Lectures by Guest Speakers (or Informal Socialization Activities)			

Lectures

Day	Topic	Lecturer
Monday	Intro/Ethics	Carsten
Tuesday	Collecting Digital Trace Data	Carsten
Wednesday	Social Network Analysis	Oliver Posegga
Thursday	Automated Text Analysis	Carsten
Friday	Surveys in the Digital Age	Matt (video lecture)
Saturday	Field Experiments	Matt (video lecture)

Accessing materials

Go to this site:

[https://compsocialscience.github.io/
summer-institute/2019/bamberg/#schedule](https://compsocialscience.github.io/summer-institute/2019/bamberg/#schedule)

Guest speakers

Day	Mode	Speaker
Monday (week 1)	Local	Andreas Jungherr
Tuesday (week)	Video	Deen Freelon
Wednesday (week 1)	Local	Fariba Karimi
Friday (week 1)	Local	Ridhi Kashyap
Monday (week 2)	Local	Martijn Schoonvelde
Tuesday (week 2)	Local	Milena Tsvetkova

All of our local guest speakers will be available for office hours. Please let us know as soon as possible if you want to talk to them.

Group projects





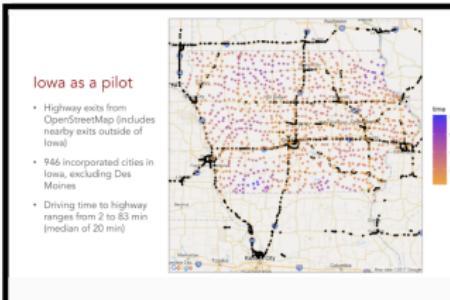
Empirica

Docs API Help

Empirica

Easy Multiplayer Interactive Experiments in the Browser

GETTING STARTED



Your responsibilities

- openness
- patience
- togetherness
- generosity

Feedback

Link to a general SICSS feedback form (shared among partner institutes) <https://forms.gle/kZsrPrmu66LPqQME9>

For the first week, we will also have daily feedback forms specific to SICSS Bamberg

Questions?