

DAY 4 | SUNDAY, SEPTEMBER 8th, 2019

6:30 – 7:30 AM Breakfast (Reception Room, Sheraton Palo Alto)
For hosted attendees only, registration required

8:00 – 9:15 AM FUNDER PANEL: Review and Future Directions

Moderator: **Brian Nosek** *Center for Open Science, USA*

Panelists: **Chonnetia Jones** *Wellcome Trust, UK*
Dawid Potgieter *Templeton World Charity Foundation, BHS*
Arthur "Skip" Lupia *National Science Foundation, USA*

COFFEE BREAK

9:45 – 11:00 AM PANEL DISCUSSION:
Reflections on metascience topics and findings

Moderator: **Jon Krosnick** *Stanford University, USA*

Panelists: **Jon Yewdell** *NIAID/DIR, USA*
Lisa Feldman Barrett *Northeastern University, USA*
Kathleen Vohs *University of Minnesota, USA*
Norbert Schwarz *University of Southern California, USA*

BREAK

11:15 – 12:30 PM PANEL DISCUSSION:
Journalists' perspective on metascience and engagement
with the broader public

Moderator: **Leif Nelson** *University of California, USA*

Panelists: **Ivan Oransky** *Retraction Watch, USA*
Christie Aschwanden *Emerging Form, USA*
Richard Harris *National Public Radio, USA*
Stephanie M. Lee *BuzzFeed News, USA*

LUNCH BREAK (CENTENNIAL LAWN)

1:30 PM UNCONFERENCE (Centennial Lawn)
Breakouts, Open Space for Collaboration
Beverages & Snacks provided

GENERAL INFORMATION



ADDRESS

Cubberley Auditorium |
School of Education |
Stanford University
485 Lasuen Mall
Stanford, CA 94305

PARKING

Complimentary Conference
Parking is available
in the Galvez Lot.

Walking to Cubberley Auditorium
from Galvez Lot: *This lot is a 15-20
minute walk from the Cubberley
Auditorium. Please allow yourself
plenty of time for a stroll through
the beautiful Stanford Campus!*
Follow the Metascience signs
from the Galvez Lot to Cubberley
Auditorium.

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CONTACT

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IMPRINT

Fetzer Franklin Fund
www.fetzer-franklin-fund.org

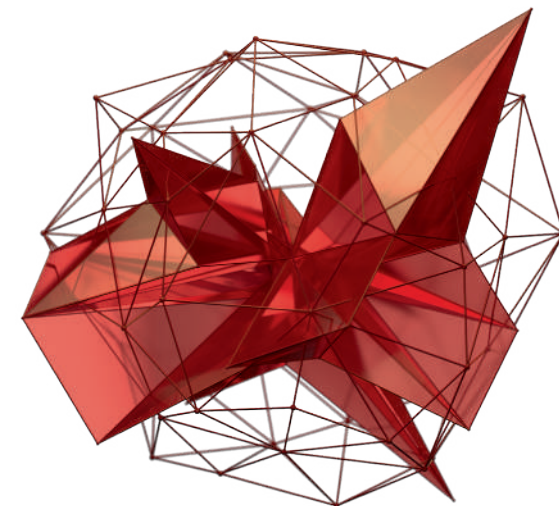
Design: www.kakoi.com

ORGANIZERS

Brian Nosek | Jonathan Schooler |
Jon Krosnick | Leif Nelson |
Jan Walleczek

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PROGRAM



METASCIENCE

2019 SYMPOSIUM

The Emerging Field of Research
on the Scientific Process.

September 5th-8th, 2019
Stanford University | Cubberley Auditorium

www.metascience2019.org

 **Fetzer Franklin
Fund** *Exploring Frontiers.
Breakthroughs.
Science.*

DAY 1 | THURSDAY, SEPTEMBER 5th, 2019

6:30 – 7:30 AM Breakfast (Reception Room, Sheraton Palo Alto)
****For hosted attendees only, registration required****

7:00 – 8:00 AM Registration (Cubberley Auditorium)

8:00 – 8:30 AM Welcome, Purpose & Logistics
Jan Walleczek *Fetzer Franklin Fund, USA*
Jonathan Schooler *University of California, USA*
Brian Nosek *Center for Open Science, USA*

TOPIC 1 ↓ **How Do Scientists Generate Ideas? ↓**

8:30 – 10:45 AM **Dean Keith Simonton** *University of California, USA*
Scientific Creativity: Discovery and Invention as Combinatorial

Roberta Sinatra *IT University of Copenhagen, DK*
Quantifying the evolution of scientific careers

Melissa Schilling *New York University, USA*
Where do breakthrough ideas come from?

COFFEE BREAK

11:00 – 12:30 PM **Jacob Foster** *University of California, USA*
Made to Know: Science as the Social Production of Knowledge (and its Limits)

Carole Lee *University of Washington, USA*
Gender-based homophily in collaborations across a heterogeneous scholarly landscape

LUNCH BREAK (CENTENNIAL LAWN)

1:30 – 2:15 PM **Marta Sales-Pardo** *Universitat Rovira i Virgili, ES*
Collaboration patterns in science

TOPIC 2 ↓ **What is Replication and Its Impact and Its Value? ↓**

2:20 – 3:05 PM **Tim Errington** *Center for Open Science, USA*
Barriers to conducting replications – challenges or opportunities?

COFFEE BREAK

3:20 – 5:35 PM **Shirley Wang** *Harvard Medical School, USA*
What does replicable ‘real world’ evidence from ‘real world’ data look like?

Jonathan Schooler *University of California, USA*
How replicable can psychological science be?: A highly powered multi-site investigation of the robustness of newly discovered findings

Daniele Fanelli *London School of Economics, UK*
Low reproducibility as divergent information: A K-theory analysis of reproducibility studies

6:00 – 8:00 PM **Dinner & Poster Session** (Centennial Lawn)
****All attendees invited****

DAY 2 | FRIDAY, SEPTEMBER 6th, 2019

6:30 – 7:30 AM Breakfast (Reception Room, Sheraton Palo Alto)
****For hosted attendees only, registration required****

TOPIC 2 ↓ **What is Replication and Its Impact and Its Value? ↓** ****Continued from Day 1****

8:00 – 9:30 AM **Annette N. Brown** *FHI 360, USA*
Is replication research the study of research or of researchers?

Adam Russell *DARPA, USA*
Fomenting (Reproducible) Revolutions: DARPA, Replication, and High-Risk, High-Payoff Research

TOPIC 3 ↓ **How Are Our Statistics, Methods, & Measurement Practices Affecting Our Capacity to Identify Robust Findings? Does the distinction between exploratory (hypothesis generating) and confirmatory (hypothesis testing) research matter? ↓**

9:30 – 10:15 AM **Bernhard Voekl** *University of Bern, CH*
Biological variation is more than random noise

COFFEE BREAK

10:30 – 12:00 PM **Michèle B. Nuijten** *Tilburg University, NL*
Checking Robustness in 4 Steps

Steven Goodman *Stanford University, USA*
Statistical methods as social technologies versus analytic tools: Implications for metascience and research reform

LUNCH BREAK (CENTENNIAL LAWN)

1:05 – 3:20 PM **Andrew Gelman** *Columbia University, USA*
Embracing Variation and Accepting Uncertainty: Implications for Science and Metascience

Zoltán Kekecs *Eötvös Loránd University, HU*
How to produce credible research on anything

Jan Walleczek *Phenoscience Laboratories, DE*
Counterfactual Meta-Experimentation and the Limits of Science: 100 Years of Parapsychology as a Control Group

COFFEE BREAK

3:35 – 4:20 PM **Edward Miguel** *University of California, USA*
Innovations in Pre-registration in Economics

TOPIC 4 ↓ **How do Scientists Interpret and Treat Evidence? ↓**

4:25 – 5:55 PM **Carl Bergstrom** *University of Washington, USA*
The inherent inefficiency of grant proposal competitions and the possible benefits of lotteries in allocating research funding

James Evans *University of Chicago, USA*
The social limits of scientific certainty

6:45 – 10:00 PM **Dinner**
****Private dinner by invitation only****

DAY 3 | SATURDAY, SEPTEMBER 7th, 2019

6:30 – 7:30 AM Breakfast (Reception Room, Sheraton Palo Alto)
****For hosted attendees only, registration required****

TOPIC 4 ↓ **How do Scientists Interpret and Treat Evidence? ↓** ****Continued from Day 2****

8:00 – 10:15 AM **Yang Yang** *Northwestern University, USA*
The Replicability of Scientific Findings Using Human and Machine Intelligence

Fiona Fidler *University of Melbourne, AU*
Misinterpretations of evidence, and worse misinterpretations of evidence

Caillin O'Connor *University of California, USA*
Scientific Polarization

COFFEE BREAK

10:30 – 11:15 AM **Daniel Kahneman** *Princeton University, USA*
The Psychology of Scientific Overconfidence: The Case of Psychology

TOPIC 5 ↓ **What Are the Cultures and Norms of Science? ↓**

11:15 – 12:00 PM **Paula Stephan** *Georgia State University, USA*
Practices and Attitudes Regarding Risky Research

LUNCH BREAK (CENTENNIAL LAWN)

1:05 – 2:35 PM **Staša Milojević** *Indiana University, USA*
The Changing Landscape of Knowledge Production

Dorothy Bishop *University of Oxford, UK*
The psychology of scientists: The role of cognitive biases in sustaining bad science

COFFEE BREAK

2:50 – 4:20 PM **Jevin West** *University of Washington, USA*
Echo Chambers in Science?

Simine Vazire *University of California, USA*
Towards a More Self-Correcting Science

4:30 – 5:30 PM OPEN DISCUSSION

7:00 PM **Dinner**
****Private dinner by invitation only****