

Big Data and the Future of Research in the Digital Age

A Collaborative Symposium of The Israel Young Academy
and The German Young Academy | Jerusalem, February 17-19, 2015



TUESDAY, FEBRUARY 17

10:30–11:15 Greetings & Opening remarks

Co-Chairs: Sharon Aronson-Lehavi, Comparative Literature, Bar-Ilan University
Sibylle Baumbach, English Studies, University of Mainz

11:15–13:00 Defining Big Data: Transformations in the Natural Sciences, Humanities, and Social Sciences

Co-Chairs: Tamar Herzig, History, Tel Aviv University
Silja Klepp, Social Anthropology, University of Bremen

Big Data in Political Science: Transformations in Theory, Methods, and Empirics

Carina Schmitt, Political Science, University of Bremen

Is there Big Data in the Humanities?

Sinai Rusinek, Digital Humanities, Polonsky Fellow

Automated Discourse Analysis

Stefanie Hieß, Sociology, University of Jena

Martin Wunderlich, Natural Language Processing, University of Munich (LMU)

13:00–14:00 Light lunch & coffee

14:00–15:30 Conducting Big Data Research and Research Projects: Methods, Challenges, and Limits (Part I)

Co-Chairs: Roded Sharan, Computer Science, Tel Aviv University
Carina Schmitt, Political Science, University of Bremen

Measuring Cultural Persistence of Antisemitism: Medieval Data and their Limits

Rebekka Voss, Jewish Studies, University of Frankfurt
Moritz Schularick, Economics, University of Bonn

Jewish and Arab Judges – Jewish and Arab Defendants: The Effect of Ethnicity in the Courtroom

Oren Gazal-Ayal, Law, University of Haifa

A Re-edition of Cryptic Scrolls from Qumran: Enhanced Algorithmic Methods to the Aid of Textual Studies

Jonathan Ben-Dov, Biblical Studies, University of Haifa

15:45–17:15 Conducting Big Data Research and Research Projects: Methods, Challenges, and Limits (Part II)

Co-Chairs: Dan Peer, Immunology, Tel Aviv University
Wolfram Pernice, Nanotechnology, Karlsruhe Institute of Technology

In Search of the Magic Metric: Quantifying Scientific Excellence Using a Single Number

Dan Oron, Physics, Weizmann Institute of Science

Combining Airborne, Ground-Based and Satellite Data to Investigate Aerosol Interactions with the Atmosphere and Climate

Bernadette Weinzierl, Atmospheric Physics, University of Munich (LMU)

Beyond Data Storage, Analyses, and Distribution: Do We Have the Technology to Make the Web Capable of Sensing?

Yael Hanein, Engineering, Tel Aviv University

17:15–17:45 Coffee Break

18:00 Keynote Address

Big Data vs. 'Slow Data': The Medici and the Future of Early Modern Archives

Alessio Assonitis, Director, The Medici Archive Project, Italy

Chair: Jonathan Ben-Dov

Introduction of the Speaker: Tamar Herzig

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WEDNESDAY, FEBRUARY 18

09:30–11:15 Visual Media, Visualizing Big Data, and Virtual Realities

Co-Chairs: Orit Kedar, Political Science, The Hebrew University of Jerusalem
Evelyn Runge, Media Studies/Journalism, University of Hildesheim

BioNumbers and Proteomaps:

Making Cell Biology by the Numbers Accessible and Visual

Ron Milo, Plant and Environmental Sciences, Weizmann Institute of Science

Photo/Journalism

Evelyn Runge, Media Studies/Journalism, University of Hildesheim

Do Digital Media Require Digital Methods?

Thoughts on Researching Digital Photography

Paul Frosh, Communication and Journalism, The Hebrew University of Jerusalem

11:15–11:45 Coffee Break

11:45–13:30 Everything is Possible: Creativity in the Digital Age

Co-Chairs: Sharon Aronson-Lehavi, Comparative Literature, Bar-Ilan University
Sibylle Baumbach, English Studies, University of Mainz

Composing with YouTube

Gordon Kampe, Musicology/Composing, Folkwang University of the Arts, Essen

Artists' Material and the Museum in the Digital Age

Rita Kersting, The Israel Museum

Speculative Bionic Designs

Ido Bachelet, Nanotechnology, Bar-Ilan University

13:30–14:30 Lunch

14:30–16:15 Ethical Challenges, Privacy, and Data Security in the Digital Age

Co-Chairs: Oren Gazal-Ayal, Law, University of Haifa
Angelika Riemer, Immunology, German Cancer Research Center (DKFZ), Heidelberg

The Second Genome Revolution: A Sequenced Genome for Every Person

Rotem Sorek, Molecular Genetics, Weizmann Institute of Science

Project EURAT: Ethical and Legal Aspects of Whole Human Genome Sequencing

Angelika Riemer, Immunology, German Cancer Research Center (DKFZ), Heidelberg

S-M-L-XL: Privacy Implication of Big Data

Michael Birnhack, Law, Tel Aviv University

16:15–16:30 Coffee Break

16:30–17:30 Keynote Address

Genetic Media: The Convergence of Internet and Genetic Information

Yaniv Erlich, Columbia University, New York, and the New York Genome Center

Chair & Introduction of the Speaker: Roded Sharan

17:30 Final Discussion

THURSDAY, FEBRUARY 19

09:00–13:00 Excursion and Strategy Meeting

of The Israel Young Academy and The German Young Academy (closed event)