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 Hiß, 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





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 17-18, 2015

האקדמיה THE ISRAEL YOUNG ACADEMY

Die Junge Akademie

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)