

YONATAN BERMAN

London Mathematical Laboratory  
8 Margravine Gardens  
London W6 8RH  
United Kingdom

Phone: +44 7490 427676  
Email: y.berman@lml.org.uk  
Homepage: [www.yonatanberman.com](http://www.yonatanberman.com)

## Academic Positions

London Mathematical Laboratory  
Postdoctoral Fellow, 2018–present.

Paris School of Economics / World Inequality Lab  
Chateaubriand Postdoctoral Fellow, 2017–present.

## Education

Ph.D., Tel Aviv University, 2017.

Dissertation Title: “Stochastic Modeling of Inequality in Complex Financial and Economic Systems”.

The Wharton School, Visiting Student, 2015–2016.

University College London, Visiting Student, 2015–2016.

M.Sc. Physics, Ben-Gurion University of the Negev, 2012.

Dissertation Title: “A Simplified Spatial Reduced Order Model for Boiling Water Reactor Stability”.

B.Sc. Mathematics and Physics (Talpiot), The Hebrew University of Jerusalem, 2007.

## Additional Professional Positions and Visits

Stone Center on Socio-Economic Inequality, City University of New York  
Visiting Scholar, 2018–present.

London Mathematical Laboratory  
Visiting Scholar, 2015–2018.

Nuclear Research Center – Negev  
Researcher, 2008–2012.

## Research Interests

Economic Inequality, Social Mobility, Labor Economics, Economic Decision Theory, Political Economy

## Work in Progress

1. Anonymous and Non-Anonymous Growth Incidence Curves and the Distribution of Growth in the United States, 1968–2017 (with François Bourguignon).
2. On the Distribution of Estates and the Distribution of Wealth: Evidence from the Dead (with Facundo Alvaredo and Salvatore Morelli).
3. Wealth Inequality in the United States Since 1967: The Role of Income, Saving, Asset Prices and Wealth Mobility.
4. Microfoundations of Discounting (with Alex Adamou, Dio Mavroyiannis and Ole Peters).

## Working Papers

5. Growth, Inequality and Absolute Mobility in the United States, 1962–2014.
6. The Long Run Evolution of Absolute Intergenerational Mobility.
7. An Empirical Test of the Ergodic Hypothesis: Wealth Distributions in the United States (with Alex Adamou and Ole Peters).
8. The Long Run Evolution of Political Cleavages in Israel.
9. The Impact of Time Horizon on the Effect of Diversification (with Ron Berman).
10. Revisiting the Great Gatsby Connection: On the Mechanical Link Between Intergenerational Elasticity and Inequality.

## Peer-Reviewed Publications

11. Berman, Y., Y. Shapira and M. Schwartz (2017). A Fokker-Planck Model for Wealth Inequality Dynamics. *EPL* 118(3), 38004 (*Editor's choice*; also at *Europhysics News highlights* 48(5/6), 14).
12. Berman, Y., Y. Shapira and M. Schwartz (2017). Analytical Study of Index-Coupled Herd Behavior in Financial Markets. *EPL* 116(5), 58003.
13. Berman, Y. and Y. Shapira (2017). Revisiting  $r > g$ —The Asymptotic Dynamics of Wealth Inequality. *Physica A* 467, 562–572.
14. Berman, Y. and T. Aste (2016). To What Extent Does Immigration Affect Inequality? *Physica A* 462, 1029–1039.
15. X. Zhang, L. Feng, Y. Berman, N. Hu and H. E. Stanley (2016). Exacerbated Vulnerability of Coupled Socio-economic Risk in Complex Networks. *EPL* 116(1), 18001.
16. Berman, Y., E. Ben-Jacob and Y. Shapira (2016). The Dynamics of Wealth Inequality and the Effect of Income Distribution. *PLOS ONE* 11(4), e0154196.
17. Berman, Y., E. Ben-Jacob, X. Zhang and Y. Shapira (2016). Analyzing the Long Term Cohesive Effect of Sector Specific Driving Forces. *PLOS ONE* 11(3), e0152487.
18. Berman, Y., Y. Shapira and E. Ben-Jacob (2015). Modeling the Origin and Possible Control of the Wealth Inequality Surge. *PLOS ONE* 10(6), e0130181.

19. Berman, Y., Y. Shapira and E. Ben-Jacob (2014). Unraveling Hidden Order in the Dynamics of Developed and Emerging Markets”. *PLOS ONE* 9(11), e112427.
20. Shapira Y., Y. Berman and E. Ben-Jacob (2014). Modelling the Short Term Herding Behaviour of Stock Markets. *New Journal of Physics* 16, 053040.
21. Berman, Y. (2013). An Improved Homogenization Technique for Pin-By-Pin Diffusion Calculations. *Annals of Nuclear Energy* 53, 238–243.
22. Berman, Y., Y. Lederer and E. Meron (2012). A Simplified Spatial Model for BWR Stability. *Proceedings of PHYSOR 2012*, 1608–1619.

## Other Publications

23. Berman, Y. (2017). Intergenerational Mobility Measures in a Bivariate Normal Model. *ArXiv 1706.07783*.
24. Berman, Y. and T. Aste (2016). How did EU Immigrants Affect Income and Wealth Inequality in the UK? *SSRN 2803317*.

## Grants, Honors & Awards

Advanced Research Collaborative Fellowship, 2020

Laboratoires d’excellence OSE research grant, 2018–2019

Best Junior Scholar Paper, Trends in Inequality: Social, Economic and Political Issues, International Conference on Inequality, 2017

Chateaubriand Fellowship, 2017–2018

INET Young Scholars Initiative Travel Grant, 2017

Dan David Prize Scholarship for Young Researchers – for Combatting Poverty, 2016–2017

Israel Ministry of Science, Technology and Space International PhD Travel Grant, 2016

Arie and Ida Crown Memorial Foundation Scholarship, 2015–2016

London Mathematical Laboratory Summer Studentship, 2015

Tauber Family Foundation Scholarship, 2014–2016

Part of the Head of Israeli Atomic Energy Commission Award Winning Team, 2009

Outstanding Cadet of Class – Talpiot Program, 2007

Outstanding Cadet of Class – Talpiot Program, 2006

## Conference Presentations

- 2020 NBER/CRIW Conference on Measuring and Understanding the Distribution and Intra/Intergenerational Mobility of Income and Wealth (Washington, DC, scheduled).
- 2019 ASSA Annual Meeting (Atlanta, GA), Society for the Study of Economic Inequality (ECINEQ) Meeting (Paris, France), EEA-ESEM Annual Congress (Manchester, UK, scheduled).

- 2018 LIS/LWS User Conference (Belval, Luxembourg), French Economic Association Meeting (Paris, France), Equal Chances Conference (Bari, Italy).
- 2017 Econometric Society European Winter Meeting (Barcelona, Spain), Trends in Inequality: Social, Economic and Political Issues, International Conference on Inequality (Bologna, Italy), Society for the Study of Economic Inequality (ECINEQ) Meeting (New York City, NY), NetSci-X (Tel Aviv, Israel).
- 2016 The Conference on Complex Systems (Amsterdam, The Netherlands), Non-Stationarity and Ergodicity in Economic and Financial Systems (Amsterdam, The Netherlands), School on Complex Systems (Amsterdam, The Netherlands).
- 2015 DPG Conference (Berlin, Germany).

## Workshop and Seminar Talks

- 2019 City, University of London, Freie Universität (Berlin, Germany), Harvard University (Cambridge, MA), Columbia University (New York, NY), Norwegian University of Science and Technology (Trondheim, Norway, scheduled).
- 2018 Université Paris 1 Panthéon-Sorbonne, University of Haifa, The Hebrew University of Jerusalem, London School of Economics.
- 2017 Paris School of Economics, The Institute for Structural Reforms (Tel Aviv, Israel), London School of Economics, Tel Aviv University.
- 2016 Oxford University, NORDITA (Stockholm, Sweden).
- 2015 University College London, The Hebrew University of Jerusalem.
- 2011 Ben-Gurion University of the Negev (Be'er Sheva, Israel).

## Peer Review

Reviewer for *Econometrica*, *Journal of the European Economic Association*, *PLOS ONE*.

## Teaching

### University of Warwick

Ergodicity in Economics: Spring 2019

### Tel Aviv University

Electricity and Magnetism for Medicine Students: Spring 2014, Spring 2015, Spring 2016, Spring 2017

Classical Mechanics for Medicine Students: Autumn 2015, Autumn 2016, Autumn 2017

### The Hebrew University of Jerusalem

Talpiot Honors Students Seminar in Physics (lecturer in charge): Spring 2013