

Arnon Levy

Curriculum Vitae

Last updated: July, 2016

arnon.levy@mail.huji.ac.il
<http://www.arnonlevy.org/>

Appointments

Senior Lecturer, The Hebrew University of Jerusalem, 2014 – present

Polonsky Postdoctoral Fellow, The Van Leer Jerusalem Institute, 2010 – 2014

Education

Harvard University, Ph.D., philosophy, 2010

Harvard University, A.M. (equivalent to an M.Sc.), organismic and evolutionary biology, 2010

The Hebrew University of Jerusalem, 2003, B.Sc. *Magna cum Laude*, joint honors: philosophy and biology

Areas of Specialization

Philosophy of science, philosophy of biology, philosophy of neuroscience

Areas of Competence

Moral & political philosophy, philosophy of mind, aesthetics: fiction and representation in art

Publications

Books

1. "Explanation and Understanding", Routledge New Problems of Philosophy (Invited, contract pending).

Edited volume:

2. "The Scientific Imagination: Philosophical and Psychological Perspectives" (with Peter Godfrey-Smith), Oxford University Press (under contract)

Research articles:

3. "Game Theory, Indirect Modeling & the Origins of Morality", Journal of Philosophy (2011) CVII (4):171-187
4. "Information in Biology: A Fictionalist Account", Noûs (2011) 45 (4):640-657
5. "Models, Fictions and Realism: Two Packages", Philosophy of Science (2012), 79 (5):738-748
6. "Three Kinds of New Mechanism", Biology & Philosophy (2013), 28 (1):99-114
7. "Abstraction and the Organization of Mechanisms" (with William Bechtel), Philosophy of Science (2013), 80 (2):241-261
8. "What was Hodgkin and Huxley's Achievement?" British Journal for the Philosophy of Science (2014), 65 (3):469-492
9. "Machine-likeness and Explanation by Decomposition" Philosophers' Imprint (2014), 14 (6)
10. "Modeling without Models", Philosophical Studies (2015), 172 (3):781-798
11. "Design sans Adaptation" (with Sara Green and William Bechtel), European Journal for Philosophy of Science (2015), 5 (1):15-29.
12. "Engineering & Biology: Counsel for a Continued Relationship" (with Brett Calcott, Mark Siegel, Orkun Soyer and Andreas Wagner), Biological Theory (online January 2015) DOI: 10.1007/s13752-014-0198-3
13. "Model Organisms are not (Theoretical) Models" (with Adrian Currie), British Journal for the Philosophy of Science (2015), 66(2): 327-348. (Selected as BJPS Editor's Choice).
14. "Models and Scientific Realism: Strange Bedfellows?" (forthcoming), in Saatsi, J. (Ed.), The Routledge Handbook of Scientific Realism, London: Routledge.
15. "Causal Order and Kinds of Robustness", (forthcoming), in Gissis, S., Lamm, E., Shavit, A. (Eds.), Landscapes of Collectivity in the Life Sciences, Cambridge, MA: MIT Press.
16. "Metaphor and Scientific Understanding" (forthcoming) in: The Scientific Imagination: Philosophical and Psychological Perspectives (co-edited with Peter Godfrey-Smith), Oxford University Press (under contract).

Book reviews:

17. "The organic codes: a review of Marcello Barbieri", (co-authored with Eva Jablonka), Acta Biotheoretica (2004), 52(1): 65-69.
18. "Explaining what? A Review of Explaining the Brain by Carl Craver," Biology & Philosophy (2009), 24: 137-145.
19. "Makes a difference: a Review of Depth, by Michael Strevens", Biology & Philosophy (2011) 26: 459-467.
20. "Anchoring Fictional Models: a Review of Models as Make-Believe by Adam Toon", Biology & Philosophy (2013), 28(4): 693-701.

21. “Essay Review: In search of Mechanisms”, *Philosophy of Science* (2015), 82(2): 321-325.

Awards, Honors, Fellowships

Polonsky Postdoctoral Fellowship, the Van Leer Jerusalem Institute, 2010-2014
Visiting Fellowship, Centre for the Foundations of Science, The University of Sydney, 2012
Fellow, Israel Institute for Advanced Studies, group on Computation & the Brain 2011
George Plimpton Adams dissertation Prize, Harvard University, 2010
Whiting Dissertation Completion Award, Harvard University, 2010-2011 (declined)
Mind, Brain & Behavior Summer Research Award, Harvard University, summer 2009
Bechtel Prize for best philosophy essay, Harvard University, 2008-09
Graduate Fellow, The Edmond J. Safra Center for Ethics, Harvard University, 2008-09
Mind, Brain & Behavior Graduate Student Term-Time Award, Harvard University, Spring 2008
Graduate School of Arts and Sciences Merit Fellowship, Harvard University, Fall 2007
Yedlin Prize for excellence in the study of philosophy, Hebrew University, 2001
Dean’s List, Faculty of Humanities, The Hebrew University of Jerusalem, 2000, 2001.

Selected Presentations

“Tackling complexity in a non-mechanistic fashion: spatiotemporal aspects” (With William Bechtel)
Philosophy of Science Association, Atlanta, November 2016

"Informational Metaphors and Scientific Understanding" (Invited talk)
University of Copenhagen, August 2016

"Causal Order and Kinds of Robustness" (Invited talk)
Landscapes of Collectivity, Tel Aviv University, June 2015; *Robustness in Neuroscience*, University of Pittsburgh, November 2015

“Abstraction & Idealization 2.0”
Israeli Association of Philosophy, Tel Aviv, February 2015; University of Cyprus, May 2015

“Against the Ontic Conception of Scientific Explanation”
Philosophy of Science Association, Chicago, November 2014

“Causal Order & the Uniqueness of Biology” (Invited talk)
Department of Philosophy, *the University of Copenhagen*, November 2014

“Scientific Explanation: A Two-Dimensional view”
Van Leer Jerusalem Institute, The Hebrew University – philosophy colloquium; UNC Chapel Hill, May 2014

“Against the Layered Picture of Neuroscientific Explanation” (Invited talks)
Interlevel Relations in Cognitive Neuroscience (Cologne), *Experimentation in Neuroscience (Pittsburgh)*, September-
November 2013

“Machine-Likeness and Explanation by Decomposition”
University of Oslo, May 2013

“What is Life? 2.0”
Between Biology & Physics: Reduction, Emergence & Complexity, Van Leer Jerusalem Institute, December 2012

“Causal Organization and Machine-likeness”
Philosophy of Science Association, San Diego, November 2012

“Model Organisms are not Models”
Australasian Association of Philosophy, July 2012; *EASPLS Geneva*, September 2012

“Causal Organization and Strategies of Abstraction” (Invited talks)
Sydney University, May 2012; *Australian National University*, June 2012

“What’s at Stake in Mechanism(s) Debates”
International Society for the History, Philosophy & Social Studies of Biology, Salt Lake City, July 2011

“Evolutionary Models and Political Stability”
Evolution, Cooperation & Rationality, *Bristol University*, June 2011

“What was Hodgkin and Huxley’s Achievement?” (Invited talk)
Philosophy & the Brain, The Hebrew University of Jerusalem, May 2011

“Fictional Models De Novo and De Re” (Invited talk)
Models and Make-Believe, Harvard University, March 2010

“Internal Progress & Illusions of Understanding: Skyrms on the Evolution of Justice”
International Society for the History, Philosophy & Social Studies of Biology, Brisbane, Australia, July 2009

“Idealization, Fiction & Causal Understanding” (Invited talk)
Models & Fiction, *London School of Economics*, London, UK, March 2009

“Idealization & Explanation in Models of the Evolution of Morality” (Invited talk)
Departmental colloquium, The department of History, Philosophy & Sociology of Science, *The Hebrew University of Jerusalem*, Israel, January 2009

“Source-Driven Learning & the Evolution of Morality”
Philosophy of Biology at Dolphin Beach 2, Australian National University, August 2007

Professional Service

Referee for: Australasian Journal of Philosophy, Biology & Philosophy, British Journal for Philosophy of Science, Erkenntnis, European Journal for Philosophy of Science, Israel Science Foundation, The Monist, The Netherlands Organisation for Scientific Research, Philosophia, Philosophy of Science, Studies in the History and Philosophy of Biology and the Biomedical Sciences, SPP, Synthese, Teorema.

Co-organizer, Annual conference of the Israeli Association of Philosophy, Jerusalem, February 2016

Co-organizer, “Models & Explanation”, The Van Leer Institute, June 2014

Co-organizer, “Between Biology & Physics: Reduction, Emergence & Complexity”, The Van Leer Jerusalem Institute and Tel Aviv University, December 2012

Co-Organizer, workshop on “Explanatory Styles in Biology”, The Van Leer Jerusalem Institute, March 2012

Mind, Brain & Behavior Steering Committee member, Harvard University, 2007-08, 2008-09

Co-organizer, The 13th Annual Harvard/MIT Graduate Student Philosophy Conference, 2005

References:

Peter Godfrey-Smith (CUNY grad center, Philosophy)
pgodfreysmith@gmail.com

William Bechtel (UCSD, Philosophy)
bill@mechanism.ucsd.edu

David Haig (Harvard, Organismic & Evolutionary Biology)
dhaig@oeb.harvard.edu

Ned Hall (Harvard, Philosophy)
ehall@fas.harvard.edu

Oron Shagrir (Hebrew University, Philosophy)
shagrir@cc.huji.ac.il