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## NEIL THOMPSON

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<b>ACADEMIA</b>	<b>Research Scientist, MIT Computer Science &amp; A.I. Lab</b> 2018 – <ul style="list-style-type: none"><li>Previously, Associate Member (2016-2018)</li></ul>
	<b>Principal Investigator, MIT Initiative on the Digital Econ.</b> 2017 –
	<b>Visiting Professor, Harvard Lab for Innovation Science</b> 2017 – 2019
	<b>Assistant Professor, MIT Sloan School of Management</b> 2013 – 2018 <ul style="list-style-type: none"><li>Teaching: Competitive Strategy (Rating: 4.7/5.0)</li><li>Teaching: Running Business Experiments (Rating: 4.7/5.0)</li></ul>
	<b>Co-Director, MIT Experimental Innovation Lab</b> 2016 –
	<b>Associate Member, Broad Institute (Genetics)</b> 2015 –
<b>EDUCATION</b>	<b>PhD in Business &amp; Public Policy</b> (Berkeley, Haas) 2007 – 2012 <ul style="list-style-type: none"><li>PhD Minor: Computational Science and Engineering</li></ul>
	<b>Masters in Statistics</b> (Berkeley) 2010 – 2012
	<b>Masters in Computer Science</b> (Berkeley) 2008 – 2012
	<b>Masters in Economics</b> (London School of Economics) 2003 – 2004
	<b>Bachelors in Economics / Int'n Development</b> (Queen's) 1997 – 2001
	<b>Bachelors in Physics</b> (Queen's) 1997 – 2000
<b>BUSINESS</b>	<b>AMD</b> (oncology diagnostics start-up with ~\$2M funding) 2008 – <ul style="list-style-type: none"><li>Board of Directors and Advisor</li></ul>
	<b>Lawrence Livermore National Laboratory</b> 2008 <ul style="list-style-type: none"><li>Work on next-generation nuclear power and on technology transfer</li></ul>
	<b>Bain and Company</b> 2004 – 2007 Senior Associate Consultant (UK, South Africa & Australia) <ul style="list-style-type: none"><li>Advised corporate leaders of FTSE 100 companies</li><li>Led a group of 10+ in a multi-million dollar improvement program</li></ul>
	<b>Previous Employers</b> United Nations (Poland), Canadian Embassy (Egypt), Canadian Parliament, Canadian Department of Foreign Affairs, World Bank

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## RESEARCH

**MOORE'S LAW & COMPUTING PERFORMANCE** **The Economic Impact of Moore's Law: Evidence from when it faltered**  
Neil Thompson *Working Paper*

**There's Plenty of Room at the Top: What will drive growth in computer performance after Moore's Law ends?** *R&R Science*  
Charles Leiserson Neil Thompson Joel Emer Bradley Kuszmaul Butler Lampson Daniel Sanchez Tao Schardl

**The Decline of Computers as a General Purpose Technology**  
Neil Thompson Svenja Spanuth *In Review, Communications of the ACM*  
▪ Basis of new public-private partnership proposal to the NSF

**How far can Deep Learning take us? A look at Performance and Economic Limits** *In Progress*  
Neil Thompson Kristjan Greenewald Keeheon Lee

**Algorithm Designers are the Unsung Heroes of Computing Performance**  
Neil Thompson Yash Sherry *In Progress*

**TOOLS & INNOVATION** **Gene synthesis allows biologists to source genes from farther away in the tree of life** *Nature Communications*  
Aditya Kunjapur Philipp Pfungstag Neil Thompson

**Science is shaped by Wikipedia: Evidence from a Randomized Control Trial** *In review, Journal of Political Economy*  
Neil Thompson Douglas Hanley

**When the Frontier of Science moves forward, who moves with it and who doesn't? Evidence from the DNA-editing technology, CRISPR**  
Neil Thompson Samantha Zyontz *Revising for Management Science*

**Could Better Tools Reverse the Long-Term Decline in Innovation per Researcher? Evidence from the creation of new genetic sequences**  
Neil Thompson Philipp Pfungstag Aditya Kunjapur Joachim Henkel *Working Paper*

**EXECUTING ON INNOVATION & STRATEGY** **Trade-offs in Firm Culture? Nope, You Can Have It All**  
Lucy Hu Hyo Kang Donald Sull Neil Thompson *Working Paper*

**Overcoming your Digital Transformation Shortfalls using Open Innovation** *In Review, Sloan Management Review*  
Neil Thompson Didier Bonnet Ines Ye

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## RESEARCH (CONT.)

**PATENTING & LICENSING** **University Licensing and the Flow of Scientific Knowledge**  
Neil Thompson Arvids Ziedonis David Mowery *Research Policy*

**How to Measure and Draw Causal Inferences with Patent Scope**  
Jeffrey Kuhn Neil Thompson *Int'n Journal of the Economics of Business*

**Does Winning a Patent Race lead to more follow-on Innovation?**  
Neil Thompson Jeffrey Kuhn *R&R, Journal of Legal Analysis*

**How patents shape product market outcomes: Evidence from a randomized control trial** *In Progress*  
Neil Thompson Albina Khairullina Chris Tucci Donald Sull

**OTHER** **First Solar (Business Strategy Teaching Case)**  
Neil Thompson Jennifer Ballen

**Addgene Depositors Get More Citations (Blog Post)**  
Samantha Zyontz Neil Thompson

**FUNDING** 9 grants, totaling ~\$1,300,000

**AWARDS** Best Case Award for “Bringing New Technology to Market” (EFMD) 2018  
#3 most-downloaded paper, Q3 2017 (SSRN) 2017  
Top 10% most-downloaded authors (SSRN) 2016 – 2017  
Wharton Reimagine Education: Stars Hybrid Learning Bronze Award 2016  
Best paper finalist, DRUID Conference 2016  
An Academy of Management “Best Paper” award 2012  
Robert Noyce Fellowship 2011 – 2012  
Winner, Greatest Team Impact for the Client (Bain & Company) 2012  
British Council Chevening Scholar 2003 – 2004

**ACTIVITIES** **Council on Competitiveness** – Advanced Computing Initiative 2019  
**National Academies Panel** – Signals of Trust in Scientific Comm. 2018  
**National Academies Panel** – Transformational Tech. Advances 2017  
**Algorithm-Wiki.org** – Crowdsourced algorithm database (Founder) 2017  
**Government Advisory** – Future of Moore’s Law 2016  
**Gates Foundation** – Facilitator, Product Development Workshop 2017  
**Neuroscience, Gallant Lab** - Decoding semantics from brain activity 2010

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### INVITED PRESENTATIONS

<b>MOORE'S LAW &amp; COMPUTING PERFORMANCE</b>	DRUID Conference	Copenhagen, upcoming
	ISC High Performance Computing keynote	Frankfurt, upcoming
	Council on Competitiveness BUILD workshop	Austin, 2019
	Ottawa University	Ottawa, 2019
	Queen's Smith School of Business	Ontario, 2019
	Council on Competitiveness BUILD workshop	San Diego, 2019
	Initiative on the Digital Economy Lunch Seminar	Cambridge, 2019
	Wharton Innovation Management Conference	Philadelphia, 2018
	Council on Competitiveness BUILD workshop	Pittsburgh, 2018
	Institutions and Innovations Conference	Boston, 2018
	NSF High End Computing Working Group	Washington DC, 2018
	Northeastern University	Boston, 2018
	Harvard Business School Digitization Lunch	Boston, 2018
	Lawrence Berkeley National Laboratory	Berkeley, 2018
	OECD	Paris, 2018
	Trancik Lab Meeting	Cambridge, 2018
	United Health Care Day	Horsham PA, 2018
	Initiative on the Digital Economy Annual Meeting	Cambridge, 2017
	MIT Computer Science and A.I. Lab Lunch presentation	Cambridge, 2017
	Institutions and Innovations Conference	Boston, 2016
	Hebrew University Dept. of Economics Seminar	Jerusalem, 2016
	Moore's Law 2.0 Conference	Washington, 2015
	NYU Stern, Management and Organizations Seminar	New York, 2015
	NBER Summer Institute, Innovation Session	Boston, 2015
	NBER Summer Institute, Productivity Session	Boston, 2015
	Carnegie Mellon Strat., Entrep., & Tech. Change Seminar	Pittsburgh, 2015
	Copenhagen Conference on Innovation and Entrep.	Denmark, 2014
	IBM Research Presentation	Yorktown NY, 2014
	National Business Economics Issue Council	Portland, 2014
	Intel Economics Seminar	Santa Clara, 2014
	Intel Parallelism Tool Seminar	Santa Clara, 2014
	Econ of I.P., Software and the Internet Conference	Toulouse, 2013
CfP Technological Conference	Stockholm, 2013	
American Economic Association Annual Meeting	San Diego, 2013	
Institutions and Innovation Conference	Cambridge, 2012	
Innovation Seminar	Berkeley, 2012	
Institutional Analysis Seminar	Berkeley, 2012	
CCC	Maryland, 2012	

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### INVITED PRESENTATIONS (CONT.)

<b>TOOLS &amp; INNOVATION</b>	Web Conference, Wiki workshop	San Francisco, 2019
	Carleton College Convocation	Minnesota, 2019
	MIT Computer Science Faculty Seminar	Cambridge, 2019
	National University Singapore	Singapore, 2018
	AIEA-NBER Conference	Malaysia, 2018
	Searle Innovation Economics Conference	Chicago, 2018
	Academia and Wikipedia Conference	Ireland, 2018
	Druid Conference	Copenhagen, 2018
	London Business School, Sumatra Conference	London, 2018
	OECD	Paris, 2018
	Munich Summer Institute	Munich, 2018
	Initiative on the Digital Economy Annual Mtg.	Cambridge, 2018
	Entrepreneurship & Innovation Research Conf.	Hong Kong, 2018
	National Academies Panel	Cold Spring Harbor, 2018
	NBER Digitization Meeting	Palo Alto, 2018
	American Economic Association Annual Meeting	Philadelphia, 2017
	MIT TIES Seminar	Cambridge, 2017
	NBER Productivity Lunch	Cambridge, 2017
	Caltech HSS Seminar	Pasadena, 2017
	USC Marshall Digital Seminar	Los Angeles, 2017
	MIT Health Systems Innovation Seminar	Cambridge, 2017
	Kellogg Strategy Seminar, Northwestern	Chicago, 2017
	Institutions and Innovation Conference	Boston, 2017
	Wikimedia Research Showcase	YouTube, 2017
	Harvard Center for Research on Computation & Society	Cambridge, 2017
	Innovation Growth Lab Annual Meeting	Barcelona, 2017
	ZEW/MaCCI Conf. on Innovation and Patenting	Mannheim, 2017
Smith Entrepreneurship Research Conference	College Park MD, 2017	
MIT Field Experiments Conference	Cambridge, 2015	
Institutions and Innovation Conference	Boston, 2014	
Institutions and Innovation Conference	Boston, 2013	

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### INVITED PRESENTATIONS (CONT.)

<b>EXECUTING ON INNOVATION &amp; STRATEGY</b>	MIT CSAIL Alliances Annual Meeting	Cambridge, 2019
	Initiative on the Digital Economy Annual Conference	Cambridge, 2019
	MIT CIO Symposium	Cambridge, 2019
	MIT Latin American CEO Conference	Silicon Valley, 2019
	Qualcomm I.P. team lunch	San Diego, 2019
	Wharton Technology and Innovation Conference	Philadelphia, 2019
	ILP Management Conference	Cambridge, 2019
	CC Singapore Applied Innovation Exchange	Singapore, 2018
	French Chamber of Commerce	Singapore, 2018
	French Chamber of Commerce	Shanghai, 2018
	CC NY Applied Innovation Exchange	New York, 2018
<b>PATENTING &amp; LICENSING</b>	Boston Univ. Tech. Policy IP Day	Cambridge, Upcoming
	Empirical Law Conference	Austin, 2018
	Innovation Growth Lab Annual Meeting	Washington DC, 2017
	North American Patent Office IP Statistics Conf.	Mexico City, 2017
	Boston University Law and Economics Seminar	Cambridge, 2017
	Harvard Law, Economics & Organizations Seminar	Cambridge, 2017
	USPTO - Economic Impacts of Intellectual Property	Alexandria VA, 2017
	Munich Summer Institute	Munich, 2017
	Searle Conference on Innovation Economics	Chicago, 2017
	Shanghai Tech Entrepreneurship and Management Seminar	Shanghai, 2016
	Boston University Strategy and Innovation Seminar	Boston, 2016
	Searle Conference on Innovation Economics	Chicago, 2016
	Roundtable for Engineering Entrepreneurship Research	Atlanta, 2016
	DRUID Conference	Copenhagen, 2016
	EPFL Management of Technology Seminar	Lausanne, 2016
	MIT TIES Seminar	Cambridge, 2016
	Institutions and Innovations Conference	Boston, 2015
	CBS Innovation and Organizational Economics Seminar	Copenhagen, 2013
	Academy of Management	Boston, 2012
	Duke Strategy Conference	Durham, 2012
NBER Summer Institute, Econ of IP and Innovation	Cambridge, 2011	
Roundtable for Engineering Entrepreneurship Research	Atlanta, 2010	