



NEIL THOMPSON

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| ACADEMIA | Research Scientist, MIT Computer Science & A.I. Lab | 2018 – |
| | ▪ Previously, Associate Member (2016-2018) | |
| | Visiting Professor, Harvard Lab for Innovation Science | 2017 – |
| | Principal Investigator, MIT Initiative on the Digital Econ. | 2017 – |
| | Assistant Professor, MIT Sloan School of Management | 2013 – 2018 |
| | ▪ Teaching: Competitive Strategy (Rating: 4.7/5.0) ▪ Teaching: Running Business Experiments (Rating: 4.7/5.0) | |
| | Co-Director, MIT Experimental Innovation Lab | 2016 – |
| | Associate Member, Broad Institute (Genetics) | 2015 – |
| EDUCATION | PhD in Business & Public Policy (Berkeley, Haas) | 2007 – 2012 |
| | ▪ PhD Minor: Computational Science and Engineering | |
| | Masters in Statistics (Berkeley) | 2010 – 2012 |
| | Masters in Computer Science (Berkeley) | 2008 – 2012 |
| | Masters in Economics (London School of Economics) | 2003 – 2004 |
| | Bachelors in Economics / Int'n Development (Queen's) | 1997 – 2001 |
| | Bachelors in Physics (Queen's) | 1997 – 2000 |
| BUSINESS | AMD (oncology diagnostics start-up with ~\$2M funding) | 2008 – |
| | ▪ Board of Directors and Advisor | |
| | Lawrence Livermore National Laboratory | 2008 |
| | ▪ Work on next-generation nuclear power and on technology transfer | |
| | Bain and Company | 2004 – 2007 |
| | Senior Associate Consultant (UK, South Africa & Australia) | |
| | ▪ Advised corporate leaders of FTSE 100 companies ▪ Led a group of 10+ in a multi-million dollar improvement program | |
| | Previous Employers | |
| | United Nations (Poland), Canadian Embassy (Egypt), Canadian Parliament, Canadian Department of Foreign Affairs, World Bank | |

NEIL THOMPSON

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

Deep Learning, Hardware Specialization and the Fracturing of a General-Purpose Technology *Working Paper*
Neil Thompson Svenja Spanuth
▪ 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 *In Progress*

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

Science is shaped by Wikipedia: Evidence from a Randomized Control Trial *Working Paper*
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 Pflingstag 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*

Open Innovation and the Rise of Digital
Neil Thompson Didier Bonnet Ines Ye *Working Paper*

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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 *Under Review, 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

NEIL THOMPSON

INVITED PRESENTATIONS

| | | |
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| MOORE'S LAW & COMPUTING PERFORMANCE | 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.)

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| TOOLS & INNOVATION | 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.)

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| EXECUTING ON INNOVATION & STRATEGY | 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 |
| PATENTING & LICENSING | 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 | |