

# Samuel Hart Berman

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## CONTACT

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## EDUCATION

2010, Wesleyan University  
Bachelor of Arts, Majors in Chemistry,  
Molecular Biology & Biochemistry,  
Molecular Biophysics Certificate

## PROFESSIONAL EXPERIENCE

2019, Vulcanze Inc., Scientist, Project Lead

Drafted Ethereum 1.x fee market revision specification, EIP-1559. Co-authored Wireline technical manuscript (pre-print), including market architecture, supply schedule, modelling.

2018–2019, Monadic, Scientist, Strategy Consultant

Oversaw technical manuscript, *Open Source Coin*, A. Sellier, E. Diakomichalis, J. Haydon. March 2019. Initiated on-chain voting research. Product strategy for the peer-to-peer programming language, creative direction of radicle.xyz website & brand.

2017, ConsenSys, Strategy Consultant

Product strategy for off-chain API service extending WolframAlpha data offerings for prospective partnership between Wolfram Research & ConsenSys.

2017, FOAM, Scientific Consultant

Co-authored manuscript for trustless time synchronization and incentivized geospatial mesh network protocol. *FOAM Technical Whitepaper*. May 2018. Foamspace Corp.

2014–present, Avant.org, Founder, Editor-in-chief

Online magazine for critical interdisciplinary scholarship. Essays syndicated by Oxford University Center for Effective Altruism & Rhizome.org. Organized events with MoMA PS1, Transmediale, LEAP Berlin, New York Ecology Center & The School for Poetic Computation.

2013–2014, Museum of Modern Art PS1, Installation Manager

Oversaw the installation of large-scale temporary sculpture projects. Assisted in the production of *Warmup*, PS1's summer experimental concert series.

## LABORATORY RESEARCH

2016–2018, Memorial Sloan Kettering, Sadelain Group

Developed methodology for the identification of single & combinatorial chimeric antigen receptor candidates. Applied surface proteomics & RNA differential expression analysis toward pre-clinical optimization of therapeutic targets. Technology now in clinical trials led by Takeda Pharmaceuticals.

2015, Memorial Sloan Kettering, Filho Group

Evolutionary decomposition of heterogeneous & metastatic cancers. Genomic analyses of previously-uncharacterized cancer types. Developed bioinformatic analysis infrastructure for high-throughput sequencing pipelines.

2011–2014, Memorial Sloan Kettering, Brennan Group

Bioinformatic & genomic investigation of neurological & renal cancers, contributions to The Cancer Genome Atlas, including RNA-Seq characterization of intragenic rearrangements & splice variation in glioblastoma. Performed mouse model experiments to determine tumor heterogeneity via single cell variation. Experimental design & statistical consultation for Oncology & Pathogenesis department.

2009–2011, Wesleyan University, Beveridge Group

Mapped protein configuration free energy space by computing hydrogen protection factors via molecular dynamics simulation. Assessed metadynamics enhanced sampling techniques using experimental proton exchange data.

## SELECTED TECHNICAL PUBLICATIONS ([19 on Google Scholar](#))

The Somatic Genomic Landscape of Glioblastoma. *Cell*. 10 Oct. 2013 (Vol. 155, Issue 2, pp. 462-477). C. W. Brennan, R. Verhaak,... S. H. Berman (10/58)... L. Chin. [Cited by 2349]

Quantitative Assessment of Intragenic Receptor Tyrosine Kinase Deletions in Primary Glioblastomas: Their Prevalence and Molecular Correlates. *Acta Neuropathologica*. 29 Nov. 2013 (Vol. 127, Issue 5, pp. 747–759). E. R. Kastnerhuber, J. T. Huse, S. H. Berman (3/12)... C. W. Brennan. [Cited 27]

Integrating Proteomics and Transcriptomics for Systematic Combinatorial Chimeric Antigen Receptor Therapy of AML. *Cancer Cell*. Oct. 2017. 32 (4), 506-519. F. Perna, S. H. Berman, R. K. Soni, J. Mansilla-Soto, J. Eyquem, M. Hamieh, R. Hendrickson, C. W. Brennan, M. Sadelain. [Cited 55]

## SELECTED INTERVIEWS, WRITING, EDITING

2019, *Headless Brands*, co-authored with Toby Shorin, Laura Lotti, Other Internet

2018, *On Cybernetic Publishing, User-Agent*, Edited by Anastasia Kubrak

2018, *Art on the Blockchain*, conversation with Ruth Catlow

2017, *Bot Ecology*, conversation with Francis Tseng, Eyebeam, NY

2015, *Watch This Space*, edited by Francesca Gavin, Pentagram

2014–2016, Edited 40+ essays published with Avant.org

## SELECTED LECTURES

2019, *The Erotics of Infrastructure: Evolution & Institution*, Kunst Werke, Berlin

2018, *Social Architectures*, Berkman Klein Center for Internet & Society, Cambridge

2018, *Social Organism*, Gray Area Foundation, San Francisco

2018, *Decentralization as Texture*, Trust, Berlin

2018, *Artificial Scarcity*, MIT Media Lab, Cambridge

2017, *People Pie Pool* by Brian Belott, Performa 2017, Abrons Arts Center, New York

2017, *Open Source Feeds*, with Max Fowler, Pioneer Works, New York

2016, *Cybersecurity*, with Charles Broskoski & Francis Tseng, 47 Canal, New York

2016, *Engineered Ecology*, with Chris Woebken, Lower East Side Ecology Center, New York

2014, *Artists & Brands: Rules of Engagement*, with Julia Kaganskiy, NEW INC, New York

## SELECTED EXHIBITIONS, CURATION

2019, *der zyklus: formenverwandler*, co-curated with Harm van den Dorpel & Kei Kreutler, Full Node, Berlin

2019, *Web of Trust*, co-organized technical presentation series, Trust, Berlin

2019, *RadicalxChange*, co-organized Arts Track, Detroit

2018, *Internet Archive Decentralized Web Summit*, co-organized Arts Track with Mindy Seu, San Francisco Mint, San Francisco

2018, *Proof of Work* by Simon Denny, artist, Schinkel Pavillon, Berlin

2018, *Secrets at Mediacity Seoul*, co-curated with Sarah Hamerman, commissioned by Monoskop, Seoul

2018, *Peer-to-Peer Web New York*, co-organized with New Computers, The School for Poetic Computation, New York

2017–2018, *Ethereal Summit*, curator, San Francisco & New York

2017, *Cybernetics Conference*, co-organized with the Cybernetics Library, Prime Produce, New York

2017, *Trust and Believe*, co-curated with Paul Soulellis & Norah Khan, Eyebeam, New York

2016, *Ázone Futures Market*, artist, Guggenheim Museum, New York