

Samuel Hart Berman

CONTACT

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EDUCATION

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

SKILLS

Publishing

Scientific manuscript & grant writing,
expository composition, technical editing,
digital layout & figure generation

Production

Curation, financing, coordination of
scientific & cultural events & installations

Programming

R, Python, Javascript, Nix, Bash, HTML, CSS

Bioinformatics

Statistical analysis of high throughput
genomic & epigenomic sequence data,
surface proteome, microarray, &
methylation profiling

Bioengineering

CRISPR-Cas9 gene editing, protein
engineering in mouse & human models,
biophysical spectroscopy, elementary
natural product synthesis

FELLOWSHIPS & AWARDS

2018, The Danish Arts Foundation International Research Programme Grant

2009–2010, Scientific Computing & Informatics Award

2008–2009, Howard Hughes Medical Institute Summer Fellowship

2007–2010, Wesleyan Merit Scholarship

LABORATORY RESEARCH

2016–2018, Memorial Sloan Kettering, Sadelain Group

Developed methodology for the identification of single-ligand & combinatorial chimeric antigen receptor candidates. Employed surface proteomics and RNA differential expression analysis toward pre-clinical optimization of therapeutic targets. Technology now in commercial production with Takeda Pharmaceuticals.

2015, Memorial Sloan Kettering, Filho Group

Evolutionary decomposition of heterogeneous & metastatic cancers. Establishing genomic analyses of multiple rare cancer types. Implemented state of the art bioinformatic tools as part of high-throughput sequencing workflows.

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 & splicing variation in glioblastoma. Performed mouse model experiments to determine tumor heterogeneity via single cell variation. Bioinformatic experimental design & analysis consultation for Oncology & Pathogenesis department investigators.

2009–2011, Wesleyan University, Beveridge Group

Mapped protein configurational free energy space by computing hydrogen protection factors via molecular dynamics simulation. Assessed the accuracy of metadynamics enhanced sampling techniques with respect to experimental proton exchange.

SELECTED TECHNICAL PUBLICATIONS ([full listing](#))

FOAM Technical Whitepaper. May 2018. Foamspace Corp.

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 1689]

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. Kasthuber, J. T. Huse, S. H. Berman (3/12)... C. W. Brennan. [Cited by 21]

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 by 14]

Epigenetic Profiling Reveals a Unique Histone Code in Chordoma. *Neurosurgery*. Aug. 2016 (Vol. 63, Suppl. 1:208). N. Moussazadeh, S. H. Berman, I. Laufer, M. Gounder, Y. Zheng, J. Sommer, M. H. Bilsky, N. L. Kelleher, C. W. Brennan.

PROFESSIONAL EXPERIENCE

2017, NumPress, Technical Consultant

Co-authored specification of blockchain oracle service, extending WolframAlpha data offerings as part of a prospective partnership between Wolfram Research and ConsenSys.

2017, FOAM, Technical Consultant

Co-authored technical documents specifying a decentralized time synchronization and geospatial protocol for an incentivized proof-of-location network.

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

Online magazine for critical interdisciplinary scholarship. Essays syndicated by Oxford University Center for Effective Altruism & Rhizome at the New Museum. Curatorial projects at MoMA PS1, Transmediale, LEAP Gallery & The School for Poetic Computation.

2013–2014, Museum of Modern Art PS1, Installation & Technical Consultant

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

2012–2014, Boiler Room New York, Founding Member, Producer & Technical Lead

Event organization & maintenance of broadcast system streaming to tens of thousands of live viewers.

2013, 319 Scholes Gallery, Technical Director

Managed installation of new media exhibitions & maintenance of audio / visual equipment.

WRITING & EDITING

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

2016, *Handmade Computer* by Taeyoon Choi, Editor, Avant.org

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

2014, *Egalitarian Economics*, Avant.org

2014, *Critical Engineering*, Avant.org

2013, *Future Organisms*, Dazed and Confused

2013, *The Extrapolation Factory*, Dazed and Confused

2013, *Sampling Sonic Culture: MoMA's Cautious Entry Into a World of Noise*, Rhizome

LECTURES

2018, *Social Organism*, Gray Area Foundation, SF

2018, *Decentralization as Texture*, Trust, Berlin

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

2017, *Open Source Feeds*, Pioneer Works, NY

2016, *Cybersecurity*, 47 Canal, NY

2016, *Platforms*, Triangle Gallery

2016, *Engineered Ecology*, Lower East Side Ecology Center, NY

2016, *Speculation in City Government*, Apexart, NY

2016, *Numeral Corporation*, Åzone Summit, Guggenheim Museum, NY

2014, *The House in the Sky*, Eyebeam, NY

2014, *Artists & Brands: Defining Rules of Engagement*, NEW INC, New Museum, NY

2013, *Digital Wasting Deception*, Transmediale, Berlin

2013, *Anonymonth*, CTM, Berlin

CURATION

2018, *Ethereal Arts NY 2018*, Ethereal Summit 2018, NY

2018, *Internet Archive Decentralized Web Summit*, San Francisco Mint, SF

2018, *Peer-to-Peer Web New York*, The School for Poetic Computation, NY

2018, *Field Remediations*, Queens Museum, NY

2017, *Øx*, Ethereal Summit 2017, NY

2017, *Cybernetics Conference*, Prime Produce, NY

2017, *Trust and Believe*, Eyebeam, NY

2016, *Circuit Scores: Electronics After David Tudor*, The School for Poetic Computation, NY

2015, *Sonic Research: Psychoacoustics Sessions*, MoMA PS1, NY

2015, *Variable World: A Symposium on Simulation*, LEAP Gallery, Berlin

2014, *Inventing Time on Film*, SOHO House, NY

EXHIBITION

2018, *Secrets at Schinkel Pavillon*, part of *Proof of Work*, organized by Simon Denny, Berlin

2018, *Secrets at Mediacity Seoul*, commissioned by Monoskop, Seoul, Korea

2018, *Cybernetics Library*, part of *Uncomputable*, curated by Taeyoon Choi and Alexander R. Galloway, School For Poetic Computation, NY

2017, *People Pie Pool*, produced by Brian Belott, Performa, NY

2016, *PAN Showcase*, Institute of Contemporary Art, London

2016, *Åzone Futures Market*, Guggenheim Museum, NY

2016, *Fog of War*, part of *Alternative Unknowns* curated by Chris Woebken & Elliott Montgomery, Apexart, NY

2015, *Weather Machine*, *Art Hack Day: Deluge*, Pioneer Works, NY

2013, *Evil Media Distribution Center*, Transmediale Berlin (Premier) & Netherlands Architecture Institute, organized by Matsuko Yokokoji & Graham Harwood