

# 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

2022–2024, Skip, Head of Product and Strategy

Set order flow strategy and shift in organizational direction to cross-chain connectivity/UX. Brokered key strategic partnerships with the Cosmos Hub, Celestia, Osmosis, Keplr, Leap. Directed research on the security properties of Skip's enshrined oracle and liquidity bridge architecture.

2022–2024, Timewave Labs, Co-Founder and Chief Strategy Officer

Architectural direction for primary product lines: automated DAO treasury management and protocol-to-protocol lending. Established key partnerships including Neutron, Stride, Osmosis, AADAO, dYdX. Facilitated the merger of the Neutron and Duality protocols.

2020–2022, Interchain Foundation, Board of Management

Led product strategy for the Cosmos Stack, responsible for negotiating product scope and delivery across all verticals. Product Manager for the x/gov, x/authz, x/feegrant, and x/groups modules. Co-developed Liquid Staking Module with Zaki Manian. Ran Cosmos Fee Market Working Group. Administered Interchain Funding Program and directed strategic investments into Celestia, Anoma, Penumbra. Lead author of the Cosmos Hub whitepaper.

2019, Vulcanze Inc., Scientist, Project Lead

Drafted Ethereum 1.x fee market revision specification, EIP-1559. Co-authored Wireline manuscript, system architecture, market design, and monetary policy for decentralized microservice network.

2018–2019, Monadic, Scientist, Strategy Consultant

Published Whitepaper, 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 ([20 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 4878]

*Integrating Proteomics and Transcriptomics for Systematic Combinatorial Chimeric Antigen Receptor Therapy of AML*. Cancer Cell. 9 Oct. 2017. (Vol. 32, Issue 4, pp. 506-519). Fabiana Perna, S. H. Berman (2/9)... M. Sadelain. [Cited 272]

*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 252]

#### INTERVIEWS, WRITING, EDITING

2023-2024 regular guest rotation on the Bell Curve Podcast, Blockworks

2024, *Crypto's Three-Body Problem*, co-authored with Toby Shorin, Laura Lotti, Other Internet

2024, *Sam Hart on Kudzu*, Taschen: On NFTs

2024, *How Slinky Can Prevent Oracle Manipulation Attacks*, co-authored with Marc Graczyk, Maghnus Mareneck.

2024, *Cosmos. Ethereum. EigenLayer*, co-authored with EigenLayer team

2023, *Accountability Along the Transaction Supply Chain*, Skip Ideas

2023, *x/builder: The first Sovereign MEV module for protocol-owned building*, co-authored with Barry Plunkett, David Terpay, Aleksandr Bezobchuk, Skip Ideas

2023, *The Sovereign MEV Toolkit*, co-authored with Barry Plunkett, Elijah Fox, Skip Ideas

2023, *The Power of Community Curation*, interviewed by María Paula Fernández, Right Click Save

2022, *The Cosmos Hub*. co-authored with Zaki Manian, Ethan Buchman, Max Einhorn, Jehan Tremback, Youssef Amrani, David Feiock, Jack Zampolin, Udit Vira, Sacha Saint-Leger, Kristi Poldsam, Jelena Djuric.

2022, *Curating Value Exchange: Presentation + Q&A with Hito Steyerl*, co-authored with Toby Shorin, Laura Lotti, Other Internet

2022, *Sam Hart*, interviewed by Brian Droitcour, Outland

2021, *Positive Sum Worlds: The Remaking of Public Goods*, co-authored with Toby Shorin, Laura Lotti, Other Internet

2021, *The Cosmos Hub is a Port City*, co-authored with Ethan Buchman

2020, *Crypto Social Coordination*, Toby Shorin, Laura Lotti, Bankless.com

2020, *Squad Wealth*, co-authored with Toby Shorin, Laura Lotti, Other Internet

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

## LECTURES, PRESENTATIONS

2023, *Shared Security Panel: Cosmos Hub, Babylon, Celestia*. Cosmoverse, Istanbul

2023, *The Blockspace Expo*. Protocol Berg, Berlin

2023, *The Nature of the Protocol*. Protocol Berg, Berlin

2023, *Experimental Fee Markets for App Chains*. Columbia CryptoEconomics Workshop, New York

2023, *A Journey Into the Cosmos: Fat Apps and User Adoption*. Permissionless II. Austin

2023, *Accountability Along the Transaction Supply Chain*. Anoma Intents Day, Palo Alto

2023, *PBS and Beyond*. MEVday. Paris

2023, *Multichain: Going Beyond Cosmos*. Awesomwasm. Berlin

2023, *ICS, Mesh, IBC & Privacy*. ZKV Presents: Privacy in Cosmos. Prague

2023, *The Future of MEV in Cosmos*, Gateway. Prague

2022, *ATOM 2.0 Panel*. Cosmoverse. Medellín

2022, *Cosmos MEV Panel*, Validator Commons Meetup. Medellín

2022, *Exchange Values*, organized by Hito Hito Steyerl and the Department of Decentralization, Bundeskunsthalle, Bonn

2021, *Iskra Delta Network Identity*. Ljubljana Biennale of the Graphic Arts, Ljubljana

2021, *Artificial Scarcity*. Art Fair Philippines, Manila (presented online)

2021, *Decentralized Art Panel*. ETHBerlin, Berlin

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

2018, *Social Architectures*, Harvard 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, *Art at the Boundaries of Computation*, Babycastles, 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, CRITICISM

2023, *Exquisite Corpse*, co-developed with Burak Arikan. prompts.studio

2022, *Ethereal Presence: NFTs and the Theater of Risk*, criticism by A.V. Marraccini, Artforum

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, *Åzone Futures Market*, artist, Guggenheim Museum, New York