

CURRICULUM VITAE

Owen Marshall

Visiting Assistant Professor
Departments of Information Science and S&TS
Cornell University

411 Morrill Hall, Ithaca, NY 14850
omarshall@cornell.edu
owen-marshall.com

Education:

- | | |
|-------------|--|
| 2013 - 2017 | PhD, Cornell University
Science & Technology Studies |
| 2010 - 2013 | MA, Cornell University
Science & Technology Studies |
| 2005 - 2009 | B.Sc., Barrett Honors College, Arizona State University
Political Science and Global Studies (double major) |

Professional Experience:

- | | |
|-------------|--|
| 2022 - 2025 | Visiting Assistant Professor
Cornell University, Ithaca, NY.
Information Science/Science & Technology Studies (co-appointment) |
| 2020 - 2022 | Postdoctoral Associate
Cornell University, Ithaca, NY.
Information Science/Science & Technology Studies (co-appointment) |
| 2018 - 2020 | NSF Postdoctoral Fellow
University of California – Davis, Davis, CA.
Program in Science & Technology Studies |
| 2017 - 2018 | Postdoctoral Scholar & Lecturer
University of California – Davis, Davis, CA.
Program in Science & Technology Studies |

Publications:

Book Manuscript:

Marshall, Owen. *Auto-Tune and The Political Economy of Pitch Correction*.
(Peer-reviewed and currently under revision for MIT Press.)

Peer-Reviewed Journal Articles, Competitive Conference Papers, and Edited Book Chapters:

[UNDER REVIEW] Marshall, Owen and Marina Johnson-Zafiris (co-first authors), Christopher Csikszentmihalyi, Steven Jackson, Jen Liu, and Joseph Ferdinando. 2024. "From Citizen Science to Redistributive Computing: New Repertoires of Contention for Community Resistance to Bitcoin Mining in New York". *Computer Supported Cooperative Work*.

[UNDER REVIEW] Marshall, Owen. 2023. "Oil and Voice: Auto-Tune, Linear Predictive Coding, and the Security-Petroleum Complex". *History and Technology, Special Issue on "Oil Spillover" in technological innovation*.

Marshall, Owen. 2021. "From Proving Ground to Bumblehive: Utah's Weird Information Landscape". *Pulse: The Journal of Science and Culture*.

Marshall, Owen. 2021. "Infrastructural Inversions in Sound Art and STS". In *The Routledge Handbook of Art, Science, & Technology Studies*. edited by Hannah Star Rogers, Megan K. Halpern, Dehliia Hannah, and Kathryn de Ridder-Vignone. Abingdon: Routledge: 124-129.

Marshall, Owen. 2021. "The Maniac-Making Machine: A Media History of Delayed Auditory Feedback". *Technology and Culture* 62(3): 839-860.

Marshall, Owen. 2021. "Un-Silencing an Experimental Technique: Listening to the Electrical Penetration Graph". *Science, Technology, and Human Values* 46(5): Online, 1-22.

Marshall, Owen. 2020. "Shibboleths in the Studio: Informal Demarcation Practices Among Audio Engineers". *Social Studies of Science* (May 2020): 1-20.

Marshall, Owen. 2019. "Jitter: Clocking as Audible Media". *International Journal of Communication* 13 (April 2019): 1846-1862.

Marshall, Owen. 2018. "Auto-Tune in Situ: Digital Vocal Correction and Conversational Repair". In *Critical Approaches to the Production of Music and Sound*, edited by Samantha Bennett and Eliot Bates. New York: Bloomsbury Academic: 175-192.

Marshall, Owen. 2014. "Synesthetizing Sound Studies and the Sociology of Technology". *Sociology Compass* 8 (April 2014): 948-58. doi:10.1111/soc4.12189.

Other Publications:

Marshall, Owen. 2022 "Lie, Cheat, and Steal: The CIA's Disastrous Scientific Legacy". *Science for the People* 25(3): 8-13.

Marshall, Owen. 2022 "Boom and Bust: The Fight Against Bitcoin Mining in New York State". *Science for the People* 25(2): 46-49.

Marshall, Owen. 2018. Review of Andrew Nelson's "The Sound of Innovation: Stanford and the Computer Music Revolution". *Annals of the History of Computing*, (January-March), 89-90.

Marshall, Owen. 2014b. "Learning to Listen Beyond Our Ears: Reflections on World Listening Day". *Sounding Out!* <https://soundstudiesblog.com/2014/07/21/learning-to-listen-beyond-our-ears-reflecting-upon-world-listening-day/>

Marshall, Owen. 2014a. "A Brief History of Auto-Tune". *Sounding Out!*
<https://soundstudiesblog.com/2014/04/21/its-about-time-auto-tune/>

Doctoral Dissertation:

Marshall, William Owen. 2017. "Tuning In Situ: Articulations of Voice, Affect, and Artifact in the Recording Studio". Cornell University. Committee Members: Trevor Pinch, Rachel Prentice, Michael Lynch, and Steven Jackson.

Fellowships and Grants:

2024 [UNDER REVIEW] NFRF2023 International Joint Initiative for Research in Climate Change Adaptation and Mitigation Competition
Pluralizing the Energy Transition: Local Experts, critical making, and resilience
Award Amount: \$700,000 (distributed among several Co-PIs)
Project Leader Prof. Matt Ratto

2024 [UNDER REVIEW] Fondazione Cariplo Young Researchers Grant, Politecnico di Milano
Pseudotechnology: Examining the Sociomaterial Negotiation of Electromagnetic Hypersensitivity and Wireless Technologies
Project Leader and Co-PI Prof. Chris Hesselbein

Fall 2022 – Spring 2023 Central New York Humanities Corridor Grant
Crypto-Feudalism Working Group
Award Amount: \$2,250
Co-organizer Prof. Jodi Dean

Summer 2018-2020 NSF Postdoctoral Research Fellowship, Science Technology and Society
Award 1827858: Grant Title: *Sounding Data in Art-Science Collaboration*
Award Amount: \$200,351
Faculty Mentor Prof. Colin Milburn

Spring 2015-2016 NSF Doctoral Dissertation Research Improvement Grant
Award 1455647. Grant Title: *Rearticulating the voice: Vocal correction technology in design and practice*. Award Amount: \$14,994
Dissertation Supervisor Prof. Trevor Pinch

Teaching:

Primary Instructor:

STS 4041 *Senior Seminar on Controversies in Science, Technology, and Medicine* (Spring 2023)
Cornell University

STS 2011 *What is Science?: An Introduction to The Sociology of Science* (Spring 2024)
Cornell University

- STS 1123 *Science and Society: Controversies* (Spring 2023)
Cornell University
- STS 152 *Sounding Data: Critical & Creative Approaches to Sonification* (Spring 2018)
UC Davis
- STS 190 *Sounding Data: Critical & Creative Approaches to Sonification* (Spring 2017)
UC Davis
- STS 161 *Time: Mechanism and Measurement* (Winter 2017 & 2018)
UC Davis
- STS 1123 *Technology and Society: Sound Cultures* (Spring 2012)
Cornell University

Teaching Assistantships:

- STS 2051 *Ethical Issues in Health and Medicine* (Spring 2012 & 2014)
Prof. Stephen Hilgartner. Cornell University
- STS 2011 *What is Science?: An Introduction to the Sociology of Science* (Fall 2012)
Prof. Trevor Pinch. Cornell University
- STS 2011 *What is Science? An Introduction to the Sociology of Science* (Fall 2011)
Prof. Park Doing. Cornell University

Invited Talks:

- Spring 2023 *Imagining the Future of Greendige: A Summary of Survey Results*
Virtual Town Hall on the Future of the Greenidge Generation Power Plant Site.
Hosted by Seneca Lake Guardian. Online.
- Spring 2022 *Oil and Voice: Auto-Tune, Linear Predictive Coding, & the Petroleum-Industrial Complex.*
Oil Spillovers Colloquium, Rice University, Houston, TX.
- Fall 2021 *The Maniac-Making Machine: A Media Genealogy of Delayed Auditory Feedback.*
Media Studies Colloquium, Cornell University, Ithaca, NY.
- Fall 2020 *The Aphid Synthesizer: Un-Silencing an Experimental Technique*
Media Objects Conference. Cornell University, Ithaca, NY.
- Spring 2020 *Sounding Data in Art-Science Collaboration: Dispatches from a Double-bind*
Dept. of Performance Studies Forum, University of California. Davis, CA.
- Winter 2019 *A Voice from Nowhere?*
Audiovisual performance with Margaret Laurena Kemp, Symposium on Emptiness,
Nothing, and Absence. University of California. Davis, CA.
- Fall 2018 *Prosodic Styles of Charismatic Speech: TED Talks and Glossolalia*

Great Lakes Association for Sound Studies (GLASS) Meeting, Northwestern University. Evanston, IL.

Winter 2015 *Articulating Voice, Affect, and Artifact in the Recording Studio*
Science, Technology, and Society Colloquium at University of Maastricht, Netherlands.

Workshops, Conference Papers, and Other Presentations:

Spring 2023 *Cryptocurrency and Neo-Feudalism: A Conversation with J. Dean, D. Golumbia, & B. Paris*
Morrill Hall, Cornell University, Ithaca, NY. (Organizer and Presenter)

Fall 2022 *The Work of Proof Around Proof of Work: Mapping Environmental Knowledge Production in the Greenidge Bitcoin Plant Controversy.* Next-Generation Blockchain and Visions of Web3 II Panel. Social Studies of Science Annual Meeting, Cholula, Mexico. (Presenter and Chair).

Fall 2022 *Beg Permission or Ask Forgiveness? Making Technologies Without Consent of the Governors.* Co-Construction of Data and Communities as Forms of Life. Social Studies of Science Annual Meeting, Cholula, Mexico. (Co-Presenter and Session Chair).

Fall 2022 *How Do We Socialize the Lab?* Social Studies of Science Annual Meeting, Cholula, Mexico. (Discussant).

Fall 2021 *Reification of Persons and (Per)sonification of Microbes: toward a decommodified microbiome.* Post-Capitalist Techno-Science. Social Studies of Science Annual Meeting, online. (Presenter and Session organizer).

Fall 2020 *SCOT and Marx: How Marxism and the Sociology of Technology Might Benefit Each other.* Social Studies of Science Annual Meeting, online.

Fall 2019 *The Aphid Synthesizer: Un-Silencing Electropenetrography*
Social for Social Studies of Science Annual Meeting, New Orleans, LA.

Summer 2019 *Listening and Transduction: Sound Studies Meets STS*
Workshop with Jennifer Hsieh. Cal-STIS Network Retreat, Marin Headlands, CA.

Spring 2019 *Jitter: Clocking as Audible Media (part of session on "Listening Out")*
Society for Cinema and Media Studies. Seattle, WA.

Summer 2018 *Collective Voicing: Sound and Data at the Human-Technology Interface*
Science Studies Research Group Workshop, Cornell University. Ithaca, NY.

Fall 2017 *Shibboleths in the Studio: On Boundary Objects for Boundary-Work*
Science and Technology Studies Food for Thought Seminar Series, University of California. Davis, CA.

Fall 2017 *Sounding Data: Pedagogies of Sonification for STS*
"Sounding Worlds" Panel. Prof. Stefan Helmreich, Discussant.
Society for Social Studies of Science Annual Meeting, Boston, MA.

- Spring 2017 *The Sounding Data Radio Hour*
Sonification Recital for students of STS 190. KDVS Radio 90.3 FM. Davis, CA.
- Fall 2015 *Vocal Pitch Correction and the Problem of Emotional Expression*
Society for Social Studies of Science Annual Meeting, Denver, CO.
- Spring 2015 *Pitch Correction Technology in Design and Practice*
Cornell University Science Studies Research Group Seminar. Ithaca, NY.
- Spring 2014 *Birth of Auto-Tune: A Genealogical Praxiography of Pitch Correction*
Boneflute to Auto-Tune: A Conference on Music & Technology in History, Theory and Practice, University of California. Berkeley, CA.
- Spring 2014 *Pitch Correction and Conversational Repair in the Recording Studio*
Northeastern Science and Technology Studies (NESTS) Graduate Student Conference, Cornell University. Ithaca, NY.
- Spring 2014 *Articulating Bodies, Technologies, and Affects in LA Recording Studios*
Cornell University Science Studies Research Group Seminar. Ithaca, NY.
- Spring 2013 *Tape Loops and Synthesizer Building Workshop (w/ Taylan Cihan)*
DIY Electronic Music Symposium, Cornell University. Ithaca, NY.
- Spring 2013 *Viral Sovereignty: Equity and Epistemics in Global Disease Surveillance*
Cornell University Science Studies Research Group Seminar. Ithaca, NY.
- Fall 2012 *Tuning in the Human: Pitch Correction in Practice*
Music: Technology, Cognition, Society Conference, Cornell University. Ithaca, NY.
- Fall 2012 *Standardizing Standardization in Pitch Correction Technology*
Science Studies Reading Group Workshop, Cornell University. Ithaca, NY.
- Fall 2012 *Standardizing Standardization in Pitch Correction Technology*
Anthropology Graduate Students Association Ethnography Workshop, Cornell University. Ithaca, NY.
- Fall 2012 *Standardizing Standardization in Pitch Correction Technology*
Massachusetts Institute of Technology Science and Technology Studies Graduate Conference, Cornell University. Ithaca, NY.
- Spring 2011 *Viral Sovereignty: Equity and Epistemics in Global Disease Surveillance*
Science and Technology Studies Graduate Conference, Cornell University. Ithaca, NY.

Performances and Installations:

- Fall 2023 *Some Bitcoin Mines, the Sounds They Make, and Local News Stories About Them*
Audiovisual installation for *Crypto-Minding: Strategies for Bypassing Industrial Genocide*
MAST – Module in Art, Science, and Technology. Nova Gorizia, Slovenia.

- Fall 2023 *How Thought Moves (Pinch and Bohm, 1978)*
Analog synthesizer performance accompanying excerpt from 1978 interview between Trevor Pinch and theoretical physicist David Bohm. For *Trevorfest* conference in memory of Trevor Pinch (1952-2021). Cornell University, Argos Warehouse, Ithaca, NY.
- Spring 2023 *Some Bitcoin Mines and the Sounds They Make*
Audiovisual Installation at *Repair and Redress* Workshop, The Soil Factory, Cornell University, Ithaca, NY. (Co-Organizer and Presenter).
- Fall 2022 *Stan Brakhage's Dog Star Man: 16mm Screening with Live Electronic Score*
Cornell Cinema, Cornell University, Ithaca, NY. (Organizer & Performer w/ A. Southard)
- Spring 2019 *Action Potentials: Four Channel audio installation for sonified plant biotadata, For Music for Concrete* Infrastructural Listening and Site-Specific Sound Art Series, UC Davis Arboretum Gazebo, Davis, CA.
- Spring 2015 *Reterritorializing the Voice, or "Death by Auto-Tune"*
Audiovisual Performance/Lecture, *Megapolis Audio Art Festival*, Oakland, CA.

Selected Employment, Collaborations, & Affiliations:

- Jun 18-30, 2021 Sound Designer – “Re: CLICK” Virtual theater production
Northwestern University American Musical Theater Project. Online.
- Dec 9-12, 2020 Sound Designer – “Re: CLICK” Virtual theater production
Northwestern University American Musical Theater Project. Online.
- 2018 – 2020 Founder and Organizer – “Music for Concrete” Infrastructural
Listening and Site-Specific Sound Art Series.
UC Davis ModLab for Digital Humanities. Davis, CA.
- Mar 14, 2018 Sound Designer – “Growing Tales: Exploring Vocal Tactics”
Della Davidson Studio, UC Davis Dept. Performance Studies. Davis, CA.
- Feb 13, 2018 Sound Designer – “Versions of Lear”
Arena Theater, UC Davis Dept. of Theater and Dance. Davis, CA.
- 2015 - 2016 Visiting Graduate Student – UC Berkeley Center for Science, Technology,
Medicine and Society (CSTMS) Program. Berkeley, CA.
- 2015 - 2016 Sound Designer – Frack the Game
UC Davis ModLab for Digital Humanities. Davis, CA.
- 2015 - 2017 Affiliated Graduate Student – Cornell Institute for the Social Sciences Creativity,
Innovation and Entrepreneurship Project. Ithaca, NY.
- 2010 - 2011 Producer - The Science and Politics Podcast

The Consortium for Science Policy and Outcomes at Arizona State University.
Tempe, AZ.

2009 - 2010

Production Intern – Vocalo.org Community Radio Project
Chicago Public Radio. Chicago, IL.

2008 - 2009

Music Director – KASC 1260 AM Radio Station
Arizona State University. Tempe, AZ.

2008 - 2009

Editor-in-Chief – Triple Helix Undergraduate Science and Society Review
Arizona State University. Tempe, AZ.

2007 - 2009

Research Intern – Global and Comparative Knowledges Project
The Consortium for Science Policy and Outcomes
Arizona State University. Tempe, AZ.