

Riley Wong

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/ Professional Experience

Principal Researcher · Emergent Research New York, NY · 2023

- Researching community governance infrastructures and privacy-preserving data collectives.

Staff Research Scientist · The Metagovernance Project New York, NY · 2023

- Researching cooperative models and collective governance.

Engineer · Landscape.FM New York, NY · 2023

- Building experimental electronic instruments and synthesizers.

Machine Learning Engineer · Google New York, NY · 2019—2022

- Built production-level deep learning pipelines for bias remediation and fairness.
- Google.org Fellow with The Trevor Project. Machine learning and natural language processing for crisis intervention of LGBTQ+ youth. One of Time's 100 Best Inventions of 2021, Social Good.
- 20% Magenta. Generative machine learning for music and art, powered by TensorFlow.
- QTPOC@Google Leadership Board. Served queer and trans communities of color at Google.
- AI Principles Ethics Fellow. Consulted on strategies for ethical AI design and development.

Google News Lab Fellow · ProPublica New York, NY · 2018

- Co-authored, published, pitched, analyzed and visualized data for investigative piece on racial disparities in cancer clinical trials: "Black Patients Miss Out on Promising Cancer Drugs."
- Featured on front page of ProPublica on publication. Republished, reprinted, or featured on: STAT News, Boston Globe, Mother Jones, Vice, Indianz, Axios, The Atlantic's People v. Cancer forum, and WURD Radio's Information is the Best Medicine.
- Awards: American Association for Cancer Research June L. Biedler Prize for Cancer Journalism. Society of American Business Editors and Writers Best in Business Honorable Mention in Health/Science.

Data Scientist · Penn Medicine Philadelphia, PA · 2017—2018

University of Pennsylvania, Perelman School of Medicine. Clinical Research Informatics Core.

- Researched interpretable machine learning methods, analyzed electronic healthcare data, trained and assessed predictive models for emergency room triage, surgery readmission risk, and cancer care.

Co-Director · Hack4Impact Philadelphia, PA · 2016—2018

- Managed and operated a 501c3 open-source tech for social good nonprofit.
- Technical lead for projects with the American Civil Liberties Union (ACLU) of Pennsylvania and the Berkman Klein Center for Internet & Society at Harvard University.
- Finalist for the Philadelphia Mayor's Award for Distinguished Group Service Project.

/ Education

University of Pennsylvania, School of Engineering and Applied Science.

Bachelor of Applied Science in Computer Science.

- **President and Executive Board**, Association for Computing Machinery's Special Interest Group on Computer Graphics and Interactive Techniques (ACM SIGGRAPH).
- **Director and Co-Founder**, Penn Play Game Jam.

/ Invited Talks, Lectures, Publications, Posters -----

- **Qualitative Governance.** Decentralized Web Camp. Governance track. June 2023.
- **Decentralized Networks for Community Care.** Decentralized Web Camp. Redwood Parliament Governance track. August 2022.
- **Creative Applications of Generative Machine Learning.** Guest lecture, DM-UY 1133: Creative Coding. New York University. Nov 2022.
- **Creative Applications of Deep Learning.** Recurse Center, Localhost. May 2019.
- **Black Patients Miss Out on Promising Cancer Drugs.** ProPublica. Sept 2018.
- **How We Compared Clinical Trial and Cancer Incidence Data.** ProPublica. Sept 2018.
- **Cancer Patient's Guide to Clinical Trials.** ProPublica. Sept 2018.
- **Machine Learning for Healthcare.** Philly Tech Week, Dev Conference. May 2018.
- **Predicting Readmission Risk after Orthopedic Surgery.** Symposium on Data Science and Statistics. May 2018.
- **Patterns of anti-cancer therapy use in the last 14 days of life in a community cancer institute.** Palliative and Supportive Care in Oncology Symposium. 2018.
- **Civic Tech Workshop.** University of Pennsylvania. Feb 2017.

/ Fellowships, Residencies, Awards -----

- **Cooperative Leaders and Scholars.** Cooperative Development Foundation, National Cooperative Business Association. 2023 cohort.
- **DWeb Fellow.** Decentralized Web Camp, Governance track. 2022.
- **Time's 100 Best Inventions of 2021.** Social Good. Crisis Contact Simulator: A Chatbot for Crisis Responders. 2021.
- **Kernel Founding Fellow.** KB5. 2021.
- **Google.org Fellow** with The Trevor Project. 2020.
- **Google AI Principles Ethics Fellow.** 2020.
- **The Recurse Center.** New York, NY. Spring 2019 cohort.
- **June L. Biedler Prize for Cancer Journalism.** American Association for Cancer Research. 2019.
- **Best in Business Honorable Mention in Health/Science.** Society of American Business Editors and Writers. 2019.
- **Interact Fellow.** 2018 cohort.
- **Google News Lab Fellow, ProPublica.** New York, NY. 2018.
- **Technical Teaching Fellow.** Hack the Hood. Oakland, CA. 2017.
- **hackNY Fellow.** New York, NY. 2015.
- **Mayor's Award for Distinguished Group Service Project, Finalist.** Philadelphia, PA. 2015.
- **Computer and Video Game Arts Scholarship.** Entertainment Software Association Foundation. 2013.

/ Community Leadership -----

- **DWeb NY.** 2022—present. Stewarding a community for the distributed web, federated technologies, digital commons, peer-to-peer networks, co-ops, governance, and privacy.
- **QTPOC@Google Leadership Board.** 2020—2022. One of four board members leading the only affinity group at Google serving queer and trans people of color.
- **TQBIPOC Tech Friends.** October 2016—present. Founder, mentor, and maintainer of an online community for transgender and queer people of color in the tech industry.

- **TransJustice Community School.** The Audre Lorde Project. 2019. New York, NY. Community organizing group created by and for transgender and gender non-conforming people of color.
- **LGBTQ+ Asian American and Pacific Islander Community Town Hall.** April 2017. Philadelphia, PA. Lead organizer and facilitator of the first state town hall in Pennsylvania to serve the queer and Asian community, backed by the Governor's Commission on Asian American Affairs.

/ Performances and Group Exhibitions

- Ambient set and sound bath at the Mycelium Pavilion. Decentralized Web Camp. Mendocino, CA. June 2023.
- **tender alchemy.** Live-coded audio-reactive visual set. Hex House. New York, NY. October 2022.
- **HELLOWORLD by WHITE RABBIT.** Gallery Sensei. New York, NY. 2015.
- Hunter Museum of Modern Art. Chattanooga, TN. 2013.
- Landis Gallery, Association of Visual Arts. Chattanooga, TN. 2013. Curator.
- Palate 2 Palette Gallery Stroll. Chattanooga, TN. 2013.
- Downtown Nashville Art Crawl. Nashville, TN. 2011.
- Schermerhorn Symphony Center. Nashville, TN. 2011.
- Association of Visual Arts. Chattanooga, TN. 2010.

/ Fiction, Poetry, and Art Publications

- **"hypnopompia."** Kernel Magazine, vol. 1. New York, NY. October 2021. Print and online.
- **"where do your idle thoughts go?"** Common Press, Kelly Writers House. Philadelphia, PA. 2018. Chapbook, print.
- **"ROSE COLORED GLASSES."** White Rabbit Art Book. New York, NY. 2015. Print.

/ Selected Writings

- **pokemon2pokemon: Using Neural Networks to Generate Pokemon as Different Elemental Types.** June 2019.
- **Implementing char-RNN from Scratch in PyTorch, and Generating Fake Book Titles.** April 2019.
- **samoyed2bernese: Using CycleGAN for Image-to-Image Translation between Samoyeds and Bernese Mountain Dogs.** April 2019.
- **joke2punchline, punchline2joke: Using a Seq2Seq Neural Network to "Translate" Between Jokes and Punchlines.** April 2019.
- **Implementing Neural Style Transfer from Scratch using PyTorch.** March 2019.
- **Circuit Cities with Pix2Pix: Using Image-to-Image Translation with Generative Adversarial Networks to Create Buildings, Maps, and Satellite Images from Circuit Boards.** March 2019.
- **Text Generation with GPT-2, OpenAI's Recently Released Language Model.** Feb 2019.
- **Generating Jazz Music with an LSTM Recurrent Neural Network.** Feb 2019.
- **Music and Mood: Assessing the Predictive Value of Audio Features on Lyrical Sentiment.** Jan 2018.
- **Algorithmic Bias.** June 2016.
- **Computational Creativity.** May 2016.