

# JENNIFER REN

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## CONTACT

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## PERSONAL STATEMENT

Because health is impacted by social and systemic factors, I cultivated a multidisciplinary skill set through my education and numerous professional experiences in technology, product design, and civic planning. I aim to become a surgeon-innovator who builds interdisciplinary partnerships to creatively translate technology into solutions that elevate the health of marginalized communities.

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## EDUCATION

M.D.	<b>Icahn School of Medicine at Mount Sinai</b>	2020 - Present
	<b>Stanford University</b>	2013 - 2018
B.A.	Human Biology, <i>concentration in Health Systems and Policy</i>	
Minor	Computer Science	
	<b>Illinois Mathematics and Science Academy</b>	2010 - 2013

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## POSITIONS AND EMPLOYMENT

2023 - 2024	Research Fellow, <b>Mount Sinai Department of Otolaryngology</b>	New York, NY
	<i>Built a clinical AI tool to conduct multilingual hearing evaluation and launched a prospective randomized control trial as primary investigator to evaluate it in real-world scenarios.</i>	
Summer 2021	Research Fellow, <b>Rock Health</b>	Remote (HQ: San Francisco, CA)
	<i>Analyzed data on venture deals, M&amp;A activity, and IPOs/SPACs in digital health.</i>	
2018 - 2020	Program Manager, <b>Microsoft (Azure Machine Learning)</b>	Bellevue, WA
	<i>Shipped tools to mount/upload, wrangle, explore, and prepare big data for machine learning. Initiated development efforts for data tooling to support Responsible AI practices.</i>	
Summer 2017	Product Management Intern, <b>Civis Analytics</b>	Chicago, IL
	<i>Managed feature development for git integration by collaborating with user experience designers and engineers. Shipped Python 2 and R kernels for hosted Jupyter Notebooks on the Civis Platform.</i>	
Summer 2016	Research Fellow, <b>New York City Economic Development Corporation</b>	New York, NY
	<i>Researched hospital M&amp;A activity to design quasi-governmental initiatives to support NYC's healthcare sector.</i>	
2015	Product Design Intern, <b>Counsyl (acquired by Myriad Genetics)</b>	South San Francisco, CA
	<i>Conducted ethnographic research within ob/gyn clinics to inform product development decisions on patient education tools. Designed web-based tool to promote transparency around insurance billing.</i>	

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## FELLOWSHIPS, HONORS, AND AWARDS

2024	Distinction in Research, <i>Icahn School of Medicine at Mount Sinai</i>
2023	The Ronald Hoffman, MD Research Fellowship, <i>Mount Sinai Department of Otolaryngology</i>
2021	Poster of the Year for the Single Practice Innovation, <i>American Academy of Home Care Medicine</i>
2021	Robert M. Kaiser Scholarship, <i>American Academy of Home Care Medicine</i>
2019	2nd Place (out of 54) in "Hack for Ethics" Category, <i>Microsoft Hackathon</i>
2017	Notation in Cardinal Service for Integrating Academic Learning with Public Service, <i>Stanford University</i>
2016	Stanford in Government Fellowship, <i>Stanford University</i>

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## TEACHING

Spring 2024	AI in Medicine Workshop <i>Invited 40 attendees across the globe from 200+ interested participants for a 3-day in-person workshop aimed at equipping trainees (medical students, residents, fellows) on how to critically evaluate clinical AI tools. Speakers included clinicians, computer scientists, researchers, and industry folks from institutions including Mount Sinai, MIT, and Columbia.</i>	Co-Founder and Co-Organizer
Spring 2023	RAD 0333: AI in Healthcare	Advisor
Spring 2023	MDE 0529: Designing Healthy Cities	Advisor
Spring 2022	<a href="#">RAD 0333: AI in Healthcare</a> <i>Provides an overview of the current medical AI landscape, common terminology and machine learning models, the benefits and limitations of AI in medicine, technical and ethical considerations, and how to critically evaluate AI models in research literature versus clinical settings.</i>	Co-Creator and Course Director
Fall 2021	MDE 0529: Designing Healthy Cities <i>Provides students with a historical foundation for understanding the intersections between health and spatial design, moves into case studies to learn from their successes and challenges, and examines ongoing work in the (re)design of cities aimed at boosting urban health/health equity.</i>	Co-Creator and Course Director

## ADMINISTRATIVE LEADERSHIP APPOINTMENTS

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Research	Advisor, <b>BioDesign Targeted Healthcare Innovation Fellowship (THRIVE)</b> <i>Advising and supporting a THRIVE team to use computer vision to digitize and automate interpretation of audio-grams. This fellowship is supported by the NIH Clinical and Translational Science Awards (CTSA) program.</i>	2024 - Present
Education	Speaker and Consultant, <b>AI Education Task Force</b> <i>Invited to present to the AI steering committee to share my experiences on how to develop relevant AI education for medical students as future physicians.</i>	2024 - Present
Education	Nutrition Education Coalition, <b>Medical Education Curricular Development</b> <i>Invited to develop nutrition education modules for the medical school to be embedded longitudinally throughout the undergraduate medical education experience, including didactics during ambulatory care clerkships.</i>	2020 - Present
Education	Co-Founder and Co-Lead, <b>Diversity Innovation Hub (Incubator)</b> <i>Co-created the inaugural Incubator, which grows teams working on solutions to address social/structural determinants of health. Accepted 8 startups. Created 8 weeks of programming, hosted 4 workshops, and recruited 14 mentors from industry/clinicians. Managed team of 4. Disbursed \$2000 of prize money.</i>	2020 - 2021

## JOURNAL PUBLICATIONS

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\* equal contribution

- J1. Spatial Design of Centers of Care for Patients with Visual Impairment: A Systematic Review  
Stephanie Ying, **Jennifer Ren**, Simran Malhotra, John Bucuvalas  
*In submission*
- J2. [Characteristics of homebound patients associated with receipt of home-based vaccination against COVID-19](#)  
**Jennifer Ren\***, Anish Kumar\*, Duzhi Zhao, Katherine Ornstein, Peter Gliatto  
*Journal of the American Medical Directors Association, 2024*
- J3. [The Inappropriate Consult: Discordant Expectations of Specialty Expertise and Areas for Improvement in Interdisciplinary Resident Education](#)  
Charles Sanky, Caroline Gentile, **Jennifer Ren**, Eric Bortnick, Stephen Krieger  
*Neurology Education, 2023*
- J4. [Using Machine Learning to Efficiently Vaccinate Homebound Patients Against COVID-19: A Real Time Immunization Campaign](#)  
Anish Kumar\*, **Jennifer Ren\***, Katherine Ornstein, Peter Gliatto  
*Journal of Medical Internet Research, 2022*
- J5. [Assessment of Published Literature Regarding Skin of Color in Pediatric Dermatology](#)  
Mary Sun, Britney Wilson, Sarah Weitzman, **Jennifer Ren**, Dedee Murrell, Jenny Murase  
*Pediatric Dermatology, 2021*

- J6. [Covid-19 Vaccines for Homebound Patients and Their Caregivers](#)  
Peter Gliatto, Emily Franzosa, Silvia Chavez, Amber Ng, Anish Kumar, **Jennifer Ren**, Linda DeCherrie, Katherine Ornstein  
*NEJM Catalyst*, 2021

## OTHER PUBLICATIONS

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- O1. [H1 2021 Digital Health Funding: Another Blockbuster Year... In Six Months](#)  
Adriana Krasniansky, Megan Zweig, Bill Evans, Jasmine DeSilva, Pavan Shah, **Jennifer Ren**, Gabrielle Dell'Aquilo, Charlotte Hawks, Claire Egan Doyle  
*Rock Health*, 2021
- O2. [Enabling More Inclusive Healthcare: Four Market Approaches To LGBTQ+ Digital Health](#)  
Adriana Krasniansky, **Jennifer Ren**, Jasmine DeSilva, Irene Golden, Megan Zweig  
*Rock Health*, 2021

## INVITED PRESENTATIONS

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| 2024 | <a href="#">The Ohio State University College of Medicine Annual Education Symposium</a><br><i>Keynote: "Future Direction of AI and Technology in MedEd"</i> | Columbus, OH      |
| 2019 | <a href="#">Strata Data Conference</a><br><i>Workshop: "Forecasting financial time series with deep learning on Azure"</i>                                   | San Francisco, CA |
| 2019 | Microsoft Build  | Redmond, WA       |

## ORAL PRESENTATIONS

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\* equal contribution

- P1. Vestibular testing and rehabilitation differences between vestibular migraine, Meniere's disease, and dually-diagnosed patients  
**Jennifer Ren**, Susmita Chennareddy, Andrea Feghali, Jennifer Kelly, Spencer Johnson, Maura Cosetti, Enrique Perez  
*American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS)*, 2024
- P2. Endoscopic Versus Microscopic Tympanoplasty: A Single-Blinded Randomized Control Trial  
Aparna Govindan, Mia Saade, **Jennifer Ren**, Zachary Schwam, Enrique Perez, Maura Cosetti, George Wanna  
*American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS)*, 2024
- P3. The effect of anxiety on hypoglossal nerve stimulation adherence and amplitude settings  
Horacio Romero Castillo, Nikhita Jain, **Jennifer Ren**, Brandon Oby, Fred Lin, Courtney Chou  
*American Academy of Otolaryngology-Head and Neck Surgery (AAO-HNS)*, 2024
- P4. Factors Associated with High-Risk Ergonomic Posture During Office Based Rhinology Procedures: A Prospective Trial  
Katherine Liu, Shaun Edalati, **Jennifer Ren**, Mohamed Darwish, Alfred Marc Iloreta, Anthony Del Signore, Satish Govindaraj  
*American Rhinologic Society (ARS) Annual Meeting*, 2024
- P5. Spatial Design of Centers of Care for Patients with Visual Impairment—A Systematic Review  
Stephanie Ying\*, **Jennifer Ren**\*, Simran Malhotra, John Bucuvalas  
*Healthcare Design Conference + Expo*, 2023
- P6. [Trauma Activations from Electric Scooter, E-bike, and Moped Use - Before and During the COVID-19 Pandemic](#)  
Charles Sanky, **Jennifer Ren**, Alexander Meshel, Rebecca Chou, David Youssef, Julian Sackey, Ryan O'Halloran, Chad Meyers  
*American College of Emergency Physicians (ACEP) & Annals of Emergency Medicine*, 2023
- P7. [Empowering medical students with peer-to-peer learning: case studies in medical AI education](#)  
Areeba Abid\*, Adrien Ezerzer\*, Katherine Link\*, **Jen Ren**\*  
*Association For Medical Education In Europe (AMEE)*, 2022

- P8. **Architecture Can Heal: Using Spatial Literacy to Adapt Health Care Spaces During the COVID-19 Pandemic**  
Ashley Marsh, Amie Shao, John Bucuvalas, Michael Dolinger, Neel Shah, **Jennifer Ren**, Grace Galvin  
*Institute for Healthcare Improvement (IHI) Forum, 2020*

## ABSTRACTS AND POSTER PRESENTATIONS

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\* equal contribution

- A1. **Demographic differences in vestibular evoked myogenic potential tests in symptomatic populations**  
**Jennifer Ren**, Susmita Chennareddy, Sreekar Miriyala, Jennifer Kelly, Maura Cosetti  
*XXXII Bárány Society, 2024*
- A2. **Addressing Differences In Anticipated Versus Actual Cochlear Implant Processor Usage: A Quality Improvement Initiative**  
**Jennifer Ren**, Lorie Singer, Sabrina Vitulano, Zachary Schwam, Jason Adams, Enrique Perez, George Wanna, Maura Cosetti  
*American Cochlear Implant Alliance (ACIA), 2024*
- A3. **Postural Stability, Balance Confidence, And Quality Of Life Improvements Post Cochlear Implantation**  
Jennifer Kelly, Anat Lubetzky, **Jennifer Ren**, Nathalie Chouery, Maura Cosetti  
*American Cochlear Implant Alliance (ACIA), 2024*
- A4. **Evaluating The Impact of Sleep Position on Efficacy of Hypoglossal Nerve Stimulation**  
Horacio Romero Castillo, Nikhita Jain, **Jennifer Ren**, Brandon Oby, Fred Lin, Courtney Chou, Emmanuel During  
*American Academy of Sleep Medicine and Sleep Research Society (SLEEP), 2024*
- A5. **Needs Assessment for Enhanced Nutrition Education in Undergraduate Medical Education**  
Nina Rodriguez, Nicola Feldman, **Jennifer Ren**, Yeji Park, Matthew Lin, Rainier Soriano  
*Association of American Medical Colleges Northeast Group on Educational Affairs (AAMC NEGEA), 2024*
- A6. **Treatment patterns of complex patients dually diagnosed with vestibular migraine and Meniere's Disease: a retrospective single-center cohort study**  
**Jennifer Ren**, Susmita Chennareddy, Jennifer Kelly, Andrea Feghali, Maura Cosetti, Zachary Schwam, Enrique Perez  
*Combined Otolaryngologic Spring Meeting / American Otologic Society (COSM/AOS), 2024*
- A7. **Audiologic Outcomes Following Spontaneous Temporal Bone Encephalocele and CSF Leak Repairs**  
Avanish Yendluri, **Jen Ren**, Maria Mavrommatis, Enrique Perez, Maura Cosetti, George Wanna, Zachary Schwam  
*Combined Otolaryngologic Spring Meeting / American Neurotology Society (COSM/ANS), 2024*
- A8. **Endoscopic Stapedotomy: Does Oval Window Packing Matter?**  
Maria Mavrommatis, Jun Yun, **Jennifer Ren**, Maura Cosetti, Enrique Perez, George Wanna, Zachary Schwam  
*Combined Otolaryngologic Spring Meeting / American Otologic Society (COSM/AOS), 2024*
- A9. **Spatial Design of Centers of Care for Patients with Visual Impairment—A Systematic Review**  
Stephanie Ying, **Jennifer Ren**, Simran Malhotra, John Bucuvalas  
*Women in Ophthalmology Summer Symposium, 2023*
- A10. **Characterizing Homebound Patients Who Benefit From Home-Based Vaccinations During The Covid-19 Pandemic**  
**Jennifer Ren\***, Anish Kumar\*, Duzhi Zhao, Katherine Ornstein, Peter Gliatto  
*Annual Scientific Meeting of the American Geriatrics Society (AGS), 2023*
- A11. **Lessons learned from peer-to-peer education: an international trend in medical AI**  
Areeba Abid\*, Adrien Ezerzer\*, Katherine Link\*, **Jen Ren\***  
*Association For Medical Education In Europe (AMEE), 2022*
- A12. **Optimizing Geospatial Routes with Machine Learning for Home-Based COVID Vaccination Campaigns**  
Anish Kumar, **Jennifer Ren**, Katherine Ornstein, Peter Gliatto  
*AcademyHealth Annual Research Meeting, 2022*

- A13. [Enabling More Inclusive Healthcare: Four Market Approaches to LGBTQ+ Digital Health](#)  
**Jen Ren**, Adriana Krasniansky, Ann-Gel Palermo  
*Fifth Annual Karen Zier Medical Student Research Day at the Icahn School of Medicine at Mount Sinai, 2021*
- A14. [Leveraging Machine Learning for Route Planning: Efficiently Vaccinating Homebound Patients Against COVID-19](#)  
**Jennifer Ren**, Anish Kumar, Peter Gliatto  
*American Academy of Home Care Medicine (AAHCM), 2021*

## SERVICE

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- 2021-2022 Executive Team, **Mount Sinai Emergency Medicine Interest Group**  
*Co-organized 2021 Northeast Medical Student Symposium. Organized skills nights. Ran virtual shadowing events.*
- 2017-2018 Resident Assistant, **Stanford Education and Society Theme (EAST) House**  
*Helped design and run education-themed programming. Cultivated community and supported residents' needs.*

## PROFESSIONAL AFFILIATIONS

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- 2024 - Present Association of American Medical Colleges (AAMC) Group on Educational Affairs
- 2024 - Present American College of Surgeons
- 2023 - Present Surgical Palliative Care Society
- 2023 - Present Society of Surgical Ergonomics
- 2021-2022 American Academy of Emergency Medicine Resident & Student Association (AAEM/RSA)

## SKILLS

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Technical	R, Python
Languages	English (native), Mandarin (native)