HANNAH LLORIN

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WORK EXPERIENCE

Director, Genetic Counseling, Feb 2025 – Present
Atria Health and Research Institute, New York, NY

- Lead enterprise-wide implementation of an adult genomic screening program for 2,000+ patients in a preventive care setting; manage cross-functional partnerships with laboratories, vendors, and academic collaborators
- Direct genomic strategy and clinical protocols across the enterprise, spanning pediatrics, integrative health, gynecology, endocrinology, and neurology
- Oversee clinical validity, utility, and regulatory compliance of all genetic testing and reporting processes
- Partner with clinical, product, and engineering teams to design and deploy genomics-based clinical decision support tools
- Provide comprehensive genetic counseling for adult and pediatric patients across a broad range of indications

Primary Care Genetic Counselor, Feb 2023 – Feb 2025
LMND Medical Group, Remote

- Developed clinical protocols and 150+ clinical decision support tools for hereditary cancer and cardiac syndromes, polygenic risk scores, and pharmacogenomics
- Created and delivered a 60-hour training program on integrating genetics into primary care for a team of 30+ physicians and advanced practice providers
- Provided clinical expertise for provider- and patient-facing interfaces of a telegenetics platform and concierge medicine service
- Directed and collaborated on clinical research projects in health outcomes and implementation science

Reproductive Genetic Counselor, Aug 2021 – Feb 2023
Brigham and Women's Hospital, Boston, MA

- Counseled patients on cfDNA screening for aneuploidy and single gene disorders, preimplantation genetic testing, and diagnostic testing for complex fetal anomalies and pregnancy loss
- Coordinated and supervised clinical rotations for Harvard Medical School fellows, residents, and medical students and MGH Institute of Health Professions genetic counseling students

EDUCATION

University of Minnesota, Remote, Jan 2024 – Present
The Genetic Counseling Fellowship in ReSearch Training (GC-FIRST) Program
Empirical Project: *Effect of Pre-Test Genetic Counseling on Six-Month SSRI and SNRI Adherence in Outpatients Undergoing Pharmacogenomic Testing*
Scoping Review: *Service Delivery Models Involving Certified Genetic Counselors in Pharmacogenomics Services*
Advisors: Heather Zierhut, PhD, MS, CGC and Ian MacFarlane, PhD

Stanford University School of Medicine, Palo Alto, CA, Sept 2019 – Jun 2021
MS in Human Genetics and Genetic Counseling

Stanford University, Palo Alto, CA, Sept 2015 – Jun 2019
BS in Human Biology

LICENSURE AND CERTIFICATION

Certified Genetic Counselor
American Board of Genetic Counseling

Licensed Genetic Counselor in 29 states (AL, AR, CA, CT, DE, FL, GA, IA, ID, IL, IN, LA, MA, MI, MN, MT, ND, NE, NH, NJ, OH, OK, OR, RI, TN, UT, VA, WA, WI)

AWARDS

Massachusetts General Hospital Institute of Health Professions Genetic Counseling Program Outstanding Capstone Committee Member Award (2024)

ASHG Annual Meeting 'Reviewer's Choice Award' Abstract (2021)

Stanford University Class of 2019 Award of Excellence (2019)

ADDITIONAL EXPERIENCES

Assistant Adjunct Professor; Formerly Clinical Instructor Oct 2022 – March 2026
Institute of Health Professions Genetic Counseling Program

Advisory Board Member, Aug 2025 – Present
Stanford University MS Human Genetics and Genetic Counseling Program

Trainee Board Member, Jan 2025 – Present
Journal of Genetic Counseling

Gender Inclusivity Practice Resource Author Group Member, March 2024 – Present
National Society of Genetic Counselors

Perspectives in Genetic Counseling **Executive Editor,** Jan 2024 – Present
National Society of Genetic Counselors

Position Statement Working Group Content Expert, Dec 2023 – Nov 2024
National Society of Genetic Counselors

Medical Writer, Jun 2021 – Dec 2021
My Gene Counsel, LLC

Graduate Writing Tutor, Mar 2020 – Jun 2021
Stanford University Hume Writing Center

Graduate Teaching Assistant, Jul 2020 – Nov 2020
Stanford University School of Medicine, Physician Associate (PA) Program

Project Lead, Jul 2020 – Jun 2021
Stanford Genetic Counseling Diversity, Equity & Inclusion Committee

Co-President, Sept 2018 – Jun 2021
Stanford University Genetic Counseling Student Interest Group

Genetic Counseling Assistant, Jun 2018 – Jun 2019
Stanford Center for Inherited Cardiovascular Disease

MEDIA ENGAGEMENTS

Let's Talk About (Biological) Sex, Baby, NPR Short Wave (2025)

Hannah Llorin, GC Ready Podcast (2022)

LGBTQIA+ in the Clinical Setting, Myriad Live Podcast (2022)

Sex, Gender, and NIPT with Hannah Llorin and Kim Zayhowski, The Beagle Has Landed Podcast (2021)

PROFESSIONAL ORGANIZATIONS

Member, Clinical Pharmacogenetics Implementation Consortium, 2025 – Present

Member, National Society of Genetic Counselors, 2019 – Present

Member, Minority Genetics Professionals Network, 2018 – Present

Reviewer, Prenatal Diagnostics, 2025 - Current

Reviewer, Clinical Pediatrics, 2024 – Present

Reviewer, Journal of Genetic Counseling, 2022 – Present

Reviewer, Journal of Community Genetics, 2023

Reviewer, Psychiatric Genetics, 2023

PUBLICATIONS

Peer-Reviewed Research

1. Sturm, A.C., Detweiler, S., Bielenberg, J., Park, S., Ukandu, E., **Llorin, H.**, Elson, SL., McIntyre, MH., & Abul-Husn NS. (2026). Health Actions Following Direct-to-Consumer Genetic Testing for Medically Actionable Conditions. Genetics in Medicine Open.
2. Canavan, L., Haghighat, D., Brown, K., Brown-King, B., & **Llorin, H.** (2026). Intersex community perspectives on prenatal sex chromosome screening:" It silences intersex". Journal of genetic counseling.
3. **Llorin, H.**, Tennen, R., Laskey, S., Detweiler, S. & Abul-Husn, N. (2024). Shortcomings of ethnicity-based carrier screening for conditions associated with Ashkenazi Jewish ancestry. Genetics in Medicine Open.
4. Tyrie, D., Oliva, A., **Llorin, H.**, & Zayhowski, K. (2024). Transgender and gender diverse individuals' perspectives on discussions of fetal sex chromosomes in obstetrics care. Journal of Genetic Counseling.
5. Stevens, C., **Llorin, H.**, Gabriel, C., Mandigo, C., Gochyyev, P., & Studwell, C. (2023). Genetic counseling for fetal sex prediction by NIPT: Challenges and opportunities. Journal of Genetic Counseling.
6. Adams, S., **Llorin, H.**, Dobson, L. J., Studwell, C., Wilkins-Haug, L., Guseh, S., & Gray, K. J. (2023). Postnatal genetic testing on cord blood for prenatally identified high-probability cases. Prenatal Diagnosis.
7. Adams, S., **Llorin, H**., Maher, O., Dean, M., Dobson, L. J., Gbur, S., ... & Gray, K. J. (2023). Single gene non-invasive prenatal screening (NIPS-SGD) for autosomal dominant conditions in a high-risk cohort. Prenatal Diagnosis.
8. **Llorin, H.**, Graf, M., Chun, N., & Ford, J. (2022). Somatic tumor mutations in moderate risk cancer genes: Targets for germline confirmatory testing. Cancer Genetics.

Articles, Editorials, and Commentaries

1. **Llorin, H.**, Lundeen, T., Collins, E., Geist, C., Myers, K., Cohen, S., Zayhowski, K. (2024). Gender and Sex Inclusive Approaches for Discussing Predicted Fetal Sex: A Call for Reflection and Research. Journal of Midwifery & Women's Health.
2. **Llorin, H.,** & Zayhowski, K. (2023). The erasure of transgender and intersex identities through fetal sex prediction and genetic essentialism. Journal of Genetic Counseling.
3. **Llorin, H.**, & Kirkpatrick, B. (2023) Busting Common Misconceptions about Direct-To-Consumer Genetic Testing. NSGC Perspectives.
4. **Llorin, H.**, & Zayhowski, K. (2021) Degendering 'The Gender Test': Reframing Gender Conversations in Prenatal Genetics Clinics. NSGC Perspectives.
5. **Llorin, H.**, & Wand, H. (2021) National Organization of Rare Disorders (NORD) Database: Juvenile Hemochromatosis.

Conference Posters

1. **Llorin, H**.; Bostrom, M.; Baumgart, I.; Zierhut, H. Integrating Genetic Counselors into Pharmacogenomic Service Delivery: A Scoping Review. Poster presented at NHGRI Trainee Meeting; 2026 Mar 28-31; St. Louis, MO
2. Chilian, M., Zayhowski, K., Powers, L., Hazelberg, K, **Llorin. H** A qualitative study of transgender and gender diverse individuals' perspectives on preconception and prenatal genetic testing for nonmedical sex selection. Poster presented at National Society of Genetic Counselors Annual Conference; 2025 Nov 6-10; Seattle, WA.
3. Oritz, E., Martschenko, D., Bombalicki, M., Horan, S., **Llorin, H**., Clinical Genetic Counselors' Perspectives on Preimplantation Genetic Testing for Monogenic Conditions with Reduced Penetrance: A Mixed Methods Study. Poster presented at National Society of Genetic Counselors Annual Conference; 2024 Sept 17-21; New Orleans, LA.
4. Canavan, L., Haghighat, D., Brown, K., Brown-King, B., **Llorin, H.**, "It Silences Intersex": Intersex Community Perspectives on Prenatal Sex Chromosome Screening. Poster presented at National Society of Genetic Counselors Annual Conference; 2024 Sept 17-21; New Orleans, LA.
5. Greb, A., **Llorin, H**., Orthlieb, M., Abul-Husn, N. Preparing Primary Care Providers to Use Genetic Information in Patient Care. Poster presented at National Society of Genetic Counselors Annual Conference; 2023 Oct 17-21; Chicago, IL.
6. Asante, J., **Llorin, H**., Bunnell, P., Gochyyev, P., Adams, S. Impact of social determinants on the uptake of diagnostic genetic testing after increased nuchal translucency. Poster presented at National Society of Genetic Counselors Annual Conference; 2023 Oct 17-21; Chicago, IL.
7. Tyrie, D., Oliva, A., **Llorin, H**., Zayhowski, K. Transgender and Gender Diverse Individuals' Perspectives on Discussion of Fetal Sex Chromosomes in Obstetrics Care. Poster presented at National Society of Genetic Counselors Annual Conference; 2023 Oct 17-21; Chicago, IL.
8. Studwell, C., **Llorin, H**., Reiss, R., Wilkins-Haug, L. & Gray. K (2023). Discrepant results for Trisomy 21 by exome and microarray: A case study highlighting testing limitations and counseling challenges in the setting of fetoplacental mosaicism. Poster presented at the ISPD 27th International Conference on Prenatal Diagnosis and Therapy, 2023 Jun 18-21; Edinburgh, UK.
9. Maher, O., **Llorin, H**., Adams, S., Kelly, H., Dobson, L. Wilkins-Haug, L. & Gray. K (2023). Non-invasive Prenatal Screening for Single Gene Disorders (NIPS-SGD) in a General Obstetric Population. Poster presented at the ISPD 27th International Conference on Prenatal Diagnosis and Therapy, 2023 Jun 18-21; Edinburgh, UK.
10. Stevens, C., **Llorin, H**., Gabriel, C., Mandigo, C., Gochyyev, P., & Studwell, C. (2022). Genetic Counseling for Fetal Sex Prediction by NIPT: Challenges and Opportunities. Poster presented at National Society of Genetic Counselors Annual Conference; 2022 Nov 16-20; Nashville, TE.
11. **Llorin, H**., Graf, M., Chun, N., & Ford, J. (2022). Tumor genomic profiling identified mutations in moderate-risk breast and ovarian cancer genes: worthy targets for germline confirmatory testing. Poster accepted at American Society of Human Genetics 2021 Virtual Meeting.

GRADUATE MENTORSHIP

1. Cara McCoy, Genetic Counseling Graduate Student, MGH IHP 2024 - 2026**.** Primary Advisor, Thesis: LGB Individuals' Perspectives on Prenatal and Pediatric Genetic Testing for Queerness.

2. Lauren Ellingwood, Genetic Counseling Graduate Student, Boston University 2023 - 2025**.** Primary Advisor, Thesis: Genetic Counseling Perspectives on Preimplantation Genetic Testing via Whole Exome Sequencing
3. Maddie Mae Chillian, Genetic Counseling Graduate Student, MGH IHP 2023 - 2025**.** Primary Advisor, Thesis: Trans and Gender Diverse Individuals' Perspectives on Non-Medical Sex Selection. *Awarded NSGC Student Research Award (*$200*).*
4. Maggy Keppler, Genetic Counseling Graduate Student, University of California San Francisco 2023 - 2025**.** Committee Member, Thesis: Exploring Genetic Counselors' Perspectives on the Transfer of XXX, XXY, and XYY Embryos Following Preimplantation Genetic Testing. *Awarded NSGC ART/IVF Special Interest Group Grant Award (*$794*).*
5. Emily Ortiz, Genetic Counseling Graduate Student, MGH IHP 2022 - 2024**.** Primary Advisor, Thesis: Genetic Counselor Perspectives on PGT-M for Reduced Penetrance Conditions
6. Louis Canavan, Genetic Counseling Graduate Student, MGH IHP 2022 - 2024. Primary Advisor, Thesis: Intersex Individuals' Perspectives on Discussion of Fetal Sex Chromosomes in Obstetrics Care
7. Emily Mason, Genetic Counseling Graduate Student, University of South Carolina, 2022 - 2024. Committee Member, Thesis: Perception of Alzheimer's Actionability Among End Users of Direct-to-Consumer Genetic Testing
8. Jessica Asante, Genetic Counseling Graduate Student, MGH IHP 2021 - 2023. Primary Advisor, Thesis: Impact of Social Determinants of Health on the Uptake of Diagnostic Genetic Testing After Increased Nuchal Translucency
9. Alej Oliva and Dana Tyrie, Genetic Counseling Graduate Students, Sarah Lawrence College 2021 - 2023. Primary Co-Advisor, Thesis: Transgender and Gender Diverse Individuals' Perspectives on Discussion of Fetal Sex Chromosomes in Obstetrics Care. *Awarded NSGC Prenatal Special Interest Group Grant Award* ($300).
10. Catherine Gurri, Genetic Counseling Graduate Student, University of Maryland 2021 - 2023. Committee Member, Thesis: Assessing the Gender Inclusivity of Genetic Counseling Practices
11. Chelsea Stevens, Genetic Counseling Graduate Student, MGH IHP 2020 - 2022. Committee Member, Thesis: Genetic Counseling for Fetal Sex Prediction by NIPT: Challenges and Opportunities.

INVITED PRESENTATIONS

1. *Genetic Counseling in Assisted Reproductive Technology*. Boston University Genetic Counseling Program (2022, 2023, 2024)
2. *Non-Invasive Prenatal Screening for Single Gene Disorders*. UT Southwestern Medical Center (2024)
3. *Consumer Genetics*. Medical University of South Carolina (2024)
4. *Genetic Counseling Considerations for LGBTQIA+ Patients*. University of California Los Angeles (2023, 2024)
5. *Genetic Counseling Considerations for LGBTQIA+ Patients*. Medical University of South Carolina (2024)
6. *Non-Invasive Prenatal Screening for Single Gene Disorders*. NSGC Member Webinar Series (2023)
7. *Genetic Counseling on Fetal Sex Chromosomes & LGBTQIA+ Advocacy*. Institute of Health Professions Genetic Counseling Program (2022)
8. *Empowering and Inclusive Care for Sexual and Gender Minority Patients*. Myriad Genetics Evolving Strategies in Hereditary Cancer Continuing Education Series (2022)
9. *Gender Affirming Genetics Care: From Medicalization to Empowerment*. Minnesota Genetic Counselors Association Spring Education Conference (2022)
10. *Genetic Counseling Considerations for LGBTQIA+ Patients*. University of Arkansas for Medical Sciences Genetic Counseling Program (2022)
11. *PGT for Monogenic Conditions with Reduced Penetrance*. Boston University Genetic Counseling Program (2022)
12. *Genetic Counseling Considerations for LGBTQIA+ Patients*. Bay Path University Genetic Counseling Program Conference (2022)
13. *Gender Inclusive Genetics*. Emory Department of Genetics Grand Rounds (2022)
14. *Chorionic Villus Sampling, Amniocentesis, and Fetal Genetic Diagnosis*. Stanford University Genetic Counseling Program (2022)

15. *Further Distilling LGBTQIA+ Identities*. Stanford Genetic Counseling Professional Development Seminar Series (2021)
16. *Gender Identity, Gender Expression, and Sexual Orientation*. Stanford Genetic Counseling Professional Development Seminar Series (2021)
17. *Pregnancy Risk in Patients with Syndromic Heritable Thoracic Aortic Disease*. Stanford Medical Genetics Grand Rounds (2021)