Courtney Studwell, MS, LCGC, MB(ASCP)^{CM}

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EDUCATION

Boston University School of Medicine, Boston, MA — Sept 2017-May 2019
Master of Science in Genetic Counseling

- Capstone Project: *Understanding the practice of genomic results communication to extended family members in the Undiagnosed Diseases Network (UDN)*

University of Connecticut, Storrs, CT — Sept 2013–May 2017
Bachelor of Science in Diagnostic Genetic Sciences, Minor in Molecular and Cell Biology

- Honors Thesis: *Improving Cervical Cancer Outcomes in Rural Honduras with Low Cost HPV Screening*

CERTIFICATIONS AND LICENSURE

American Board of Genetic Counseling (ABGC), Certified Genetic Counselor — 2019-present
Commonwealth of Massachusetts, Licensed Genetic Counselor, License #GC539 — 2019-present
American Society for Clinical Pathology (ASCP), Technologist in Molecular Biology (MB) — 2017-present

PROFESSIONAL EXPERIENCE

Brigham and Women's Hospital, Boston, MA — Jun 2019 -present
Center for Advanced Molecular Diagnostics and Center for Fetal Medicine
Licensed Certified Genetic Counselor

- Assist in development, launch, and management of non-invasive prenatal screening assay at BWH
- Serve as liaison between ordering providers and the laboratory to facilitate appropriate and high-quality genetic testing
- Counsel patients in the Center for Fetal Medicine for a variety of prenatal indications including carrier status, abnormal prenatal screening, diagnostic testing, ultrasound findings and preimplantation genetic testing

Harvard Medical School, Boston, MA — Aug 2017-May 2019
Undiagnosed Diseases Network Coordinating Center
Research Assistant

- Consent participants and compose profiles for the participant webpage research project in order to aid in diagnosis and connect patients to researchers, clinicians, and other families
- Respond to inquiries from applicants and healthcare providers via email and phone
- Provide support for the network through recording committee meeting minutes and completing data entry

TEACHING EXPERIENCE

MGH Institute for Health Professions Genetic Counseling Program — **2020 - current**

Term lecturer

- Laboratory Methods Course (Fall 2021)

Guest lecturer

- Laboratory Methods, cytogenetics lecture (2020)
- Laboratory Methods, prenatal and preconception genetics (2020)

Thesis Advisor

- *Genetic Counseling for Fetal Sex Prediction by NIPT: Challenges and Opportunities* (2022)
- *The motivations for carrier testing and impact of carrier status as it relates to family planning for siblings of those affected by Fanconi anemia (FA)* (2023)

Student Supervision

- BWH Cytogenetics and Molecular Diagnostics Laboratory Rotation (2021, 2022)
- BWH Prenatal Rotation (2020, 2021)
- BWH Prenatal Observations (2019, 2020, 2021)

Boston University Genetic Counseling Program **2020-current**

Guest lecturer

- Genetic Diagnosis and Laboratory Methods, chromosomal microarray lecture (2020, 2021, 2022)
- Genetic Diagnosis and Laboratory Methods, coordination of cytogenetics lab visit (2020)
- Introduction to Human Genetics, introduction to cytogenetics lecture (2020, 2021)

Student Supervision

- BWH Prenatal Case Conference Observation

Harvard Medical School **2019 – present**

Student supervision

- Laboratory Genetics and Genomics (LGG) Fellowship, mentorship and clinical supervision in prenatal clinic
- Clinical Genetics Residency, clinical supervision for prenatal genetics rotation
- Medical students, clinical observation

LAB EXPERIENCE

Dartmouth-Hitchcock Medical Center, Lebanon, NH Jan-Jun 2017
Laboratory for Clinical Genomics and Advanced Technologies
Molecular Diagnostics Clinical Internship

- Full-time internship in preparation for certification as a molecular biology technologist; gained proficiency in a variety of molecular techniques including nucleic acid extraction, polymerase chain reaction, viral quantification, etc.
- Exposure to next generation sequencing library preparation, workflow and analysis on Illumina platform and to Affymetrix Cytoscan and Oncoscan microarray analysis

PROFESSIONAL PRESENTATIONS

Studwell C, Pelletier R, Ligon AH, Lennerz J, Lindeman N, Rehm H. Assessing germline send out testing at a large academic medical center: the Mass General Brigham experience. Poster presented at: National Society of Genetic Counselors Annual Education Conference; September 2021; virtual.

Studwell C, Dobson L, Turriff A, Durant T. Beyond common aneuploidies: Expanding existing chromosome testing technologies and subsequent prenatal care. Speaker and session coordinator for educational breakout session. National Society of Genetic Counselors Annual Education Conference; November 2020; virtual.

Studwell C, Ligon AH, Dubuc A, Mason-Suares H. Improved detection of low-level aneuploidy in chromosomal microarray analysis of products of conception. Poster presented at: American College of Medical Genetics Annual Clinical Genetics Meeting; March 2020; virtual.

Studwell C, LeBlanc K, Kelley E, Undiagnosed Diseases Network. Understanding the practice of genetic result communication to extended family members by participants in the Undiagnosed Diseases Network (UDN). Poster presented at: National Society of Genetic Counselors Annual Education Conference; November 2019; Salt Lake City, UT.

PUBLICATIONS

Guseh S, Wilkins-Haug L, Kaimal A, Dunn-Albanese L, Adams S, Carroll S, Discenza M, Dobson L, Brillinger M, Foster J, Gbur S, Green H, Herrig N, Mandigo C, Pacione M, Roberts P, Sassaman A, Steinberg K, **Studwell C**, Gray KJ. Utility of noninvasive genome-wide screening: a prospective cohort of obstetric patients undergoing diagnostic testing. Genet Med. 2021 Jul;23(7):1341-1348. doi: 10.1038/s41436-021-01147-4. Epub 2021 Mar 29. PMID: 33782554.

LeBlanc K, Kelley EG, Nagy A, Bater J, Berro T, McGuinness MA, **Studwell C**; Undiagnosed Diseases Network, Might M. Rare disease patient matchmaking: development and outcomes of an internet case-finding strategy in the Undiagnosed Diseases Network. Orphanet J Rare Dis. 2021 May 10;16(1):210. doi: 10.1186/s13023-021-01825-1. PMID: 33971915; PMCID: PMC8108446.

Studwell CM, Kelley EG; Undiagnosed Diseases Network, Sinsheimer JS, Palmer CGS, LeBlanc K. Family genetic result communication in rare and undiagnosed disease communities: Understanding the practice. J Genet Couns. 2021 Apr;30(2):439-447. doi: 10.1002/jgc4.1329. Epub 2020 Oct 27. PMID: 33108040; PMCID: PMC8207526.

Atkinson, A., **Studwell, C**., Bejarano, B., Castellón, A.M.Z., Espinal, J.A.P., Deharvengt, S.,…Tsongalis, G.J. (2018). Rural distribution of human papilloma virus in low- and middle-income countries. *Experimental and Molecular Pathology*, 104, 146-50

INVITED TALKS

NSGC Prenatal SIG Virtual Case Conference October 2021
*"Thank You, Next Tes*t", case presentation

NSGC Podcast Series December 2020
Communicating Results - Lessons from the Rare Disease Community, invited guest
https://hwcdn.libsyn.com/p/6/6/7/667f60b238028ff5/NSGC_MemberPodcast-December2020-1.mp3?c_id=89508227&cs_id=89508227&expiration=1643301169&hwt=85357c218117c11a5fa3956d78376dff

DNA Today Podcast November 2020
NSGC 2020 Recap, invited guest
http://dnapodcast.com/episodes/2020/11/23/135-nsgc-2020-recap

PROFESSIONAL MEMBERSHIPS

National Society of Genetic Counselors (NSGC)

American Society of Clinical Pathologists (ASCP)