

COURSE DIRECTOR/FACULTY TEACHING BIOGRAPHICAL SKETCH

Follow this format for all faculty course directors (For courses directed by program leadership use the Program Directors/Co-Directors or other Program Leadership form).

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NAME: Ellie Jacoby, MGC, CGC

INSTITUTION POSITION TITLE: Assistant in Pathology, Microbiology, and Immunology – Laboratory Genetic Counselor

GRADUATE PROGRAM POSITION TITLE: Laboratory Sciences in Medical Genetics Course Director

EDUCATION/TRAINING: (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Drake University, Des Moines, IA	Bachelor of Science	05/2020	Major: Health Sciences – Clinical and Applied Minor: Biology Concentration: Women’s and Gender Studies
Vanderbilt University School of Medicine, Nashville, TN	Master of Genetic Counseling	05/2022	Genetic Counseling
University of Colorado Anschutz Medical Center, Aurora, CO	Fellowship	06/2023	Rare Disease and Neuromuscular Genetic Counseling Fellowship

A. Course Title(s): Laboratory Sciences in Medical Genetics, GC 6520

B. Please provide a brief statement of expertise and/or skill set that you offer for students taking the course(s) you are responsible for teaching (Standard A2.5.2). *If you will be asked to teach an online course, please list completed training and/or education related to distance learning. In addition, please include a description of your knowledge and content expertise related to genetic counselor specific education. Please describe training or experiences which have supported the development of your teaching skills. Please describe any future plan for obtaining training to support the ongoing development of teaching skills).*

Before becoming co-course director, I spent time in college tutoring a wide range of students in organic chemistry and as a teaching assistant for a professional pharmacy course. This laid the foundation for my love of teaching complex material, navigating assignment development and grading, and communication between educators and students. As a rare disease and neuromuscular genetic counseling fellow, I taught lectures to residents and other professionals and had the opportunity to learn from a new healthcare system. Furthermore, completing Vanderbilts Master of Genetic Counseling program two years prior to this role has allowed me to not only develop the material, but to teach it in a way that is directly relevant to board, clinic, and laboratory experiences. Now with my role as a laboratory genetic counselor, I have experience mentoring students from a plethora of programs and backgrounds on skill sets including variant interpretation, report writing, panel curation, and other routine laboratory functions.

C. Positions, certification, and honors (include dates):

I. Positions and employment:

- **Vanderbilt University Medical Center | Laboratory Genetic Counselor**, Nashville, TN, November 2022 – present
- **GeneXsure, LLC | Genetic Counseling Assistant**, Nashville, TN, March 2021 – July 2022

II. Certification (please include specific field):

- **Board Certified Genetic Counselor**, Diplomate of the American Board of Genetic Counseling, September 2022

D. Please list your Teaching/Mentorship/Clinical Supervision/Leadership Activities. (within the last 5 years):

- I.* Guest Lecture, Southern California University, Master of Science in Genetic Counseling, Professional Genetic Counseling Practice II, Summer 2025
- II.* Course Director, Laboratory Sciences in Medical Genetics, Spring 2025
- III.* Guest lecture, Vanderbilt University
 - Medical Genetics 2, Spring 2022 - 2025
 - Foundations of Genetics and Genomics, Fall 2024
- IV.* Guest Lecture, University of Cincinnati, Master in Pharmacoeconomics, Spring 2025
- V.* Vanderbilt/VUMC mentorship 2024-2025
 - Master of Genetic Counseling Students
 - Pathology Microbiology and Immunology Residents
 - Master of Laboratory Science Students
 - Laboratory Genetics and Genomics Fellows
 - Molecular Genetic Pathology Fellows
- VI.* Guest Lecture, University of Colorado Anschutz Medical School
 - Neurology residents, March 2023
 - Psychiatry residents, November 2022

E. Professional Activities (Within the last 5 years):

- Master of Genetic Counseling Advisory Board, member, June 2022 – May 2025
- Vanderbilt Laboratory Medicine Rounds. *Emerging Laboratory Genetic Technologies: the next, next generation sequencing*. February 14, 2025.
- Genetic Counseling Professional Issues Panel. *Negotiating Salary and Finding a Job*. January 31, 2024
- Inherited Neuropathy Consortium's International Virtual Grand Rounds. *Case Series: CHCHD10 Duplication including CMT*. May 2023.
- Children's Hospital of Colorado Neuromuscular and Rehabilitation Journal Club. *DMD Gene and Dystrophinopathy Phenotypes Associated with Mutations: A Systematic Review for Clinicians*. June 16, 2023
- Personalized and Precision Medicine Journal Club. *Exploring the impact of virtual SPIKES training on genetic counselors' confidence to deliver difficult news*. October, 2023.
- National Society of Genetic Counselors, Member.
- Tennessee Genetic Counseling Association, Member.
- Phi Beta Kappa Society, Member.

F. Research, funded grants and/or scholastic endeavors including accepted abstracts and other publications: *(Please only include accomplishments from the last 5 years):*

- I. *Molecular diagnosis of DMD-related dystrophinopathies in patients with non-representative phenotypes by using a broad neuromuscular next generation sequencing panel. American College of Medical Genetics and Genomics Annual Meeting. Los Angeles, CA, March 18-22, 2025.*
- II. *Ellie Jacoby, Dianna Quan, Emily Todd, Brooke Hawkes, Nicholas Rafaels, Harry Smith, Kristy Crooks. Prevalence of pathogenic transthyretin gene variants in the Rocky Mountain West region. Muscle Nerve. 2025 Feb;71(2):252-256.*
- III. *Whole exome sequencing results in a definitive diagnosis for individuals exhibiting common global developmental delay and intellectual disability at early stages. American Society of Human Genetics Annual Meeting. Denver, CO November 5-9, 2024.*
- IV. *Prevalence of pathogenic transthyretin gene variants in the Rocky Mountain West region. American Association of Neuromuscular and Electrophysiology Medicine Annual Conference, Phoenix, AZ, November 2023.*
- V. *"I have not had this opportunity, but it would be ideal:" Psychiatrists' perspectives on genetics and the role of genetic counselors. National Society of Genetic Counselors Annual Conference, Nashville, TN, October 2022.*
- VI. *Ingrid Lizarraga, Amanda Kahl, Ellie Jacoby, Mary Charlton, Charles Lynch, Sonia Sugg. 2021. The role of age, rurality and distance traveled in predicting contralateral prophylactic mastectomy for breast cancer in a Midwestern state. Breast Cancer Research and Treatment. 2021 Jul;188(1):191-202.*