

**COURSE DIRECTOR/FACULTY TEACHING BIOGRAPHICAL SKETCH**

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NAME: Elly Brokamp

INSTITUTION POSITION TITLE: Genetic Counselor, Assistant Professor in Pediatrics

GRADUATE PROGRAM POSITION TITLE: Practicum Coordinator, Course Director, Admissions Committee member

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

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Ohio State University, Columbus, OH	B.S	05/13	Molecular Genetics
Sarah Lawrence College, Bronxville, NY	M.S	05/16	Human Genetics

**A. Course Title:**

Introduction to Genetic Counseling, Pre-Practicum, and Public Health Genomics.

**B. Personal Statement (Brief statement of expertise and/or skill set that you offer for students taking the course(s) you are responsible for teaching):**

I've been a practicing certified and licensed genetic counselor since 2016 with previous roles in clinical genomics research projects. I began my career working mostly on VUMC's clinical site of the NIH-funded Undiagnosed Diseases Network (UDN) project. Clinically, I see general pediatric and adult genetics; I am interested in extreme rare diseases. My position has transitioned over the past few years to also include leading Vanderbilt's site for the Columbia's Variant Reinterpretation Stakeholder Study (VRiSS), becoming the Practicum Coordinator for Vanderbilt's Masters in Genetic Counseling program, and being a member of the in-house exome laboratory analysis team.

**C. Positions, Certification, and Honors (include dates):**

i. Positions and Employment:

2012-2014: Clinical Research Assistant for The Dilated Cardiomyopathy Research Project, Ohio State University, Department of Internal Medicine, Division of Human Genetics, Columbus, OH

2015-2016: Clinical Research Assistant for Simons VIP Connect, Geisinger Health System, Danville, PA

2016-present: Assistant in Pediatrics, Department of Pediatrics, Division of Medical Genetics and Genomic Medicine, Vanderbilt University Medical Center, Nashville, TN

ii. Certification:

2016-present Tennessee Licensed Genetic Counselor, #151

2018-present Registered Yoga Teacher-200 hour

iii. Honors:

**D. Contributions to Teaching and Mentorship:**

i. Please list any training/education you have had in course development and learning assessment, teaching, and leadership (i.e., courses, workshops, certificate programs). If you teach an online course(s) include any related training/education:

10/2019: Supervisor training- RIME Model

2017- 2019: Curriculum Development Committee bimonthly meetings for the Vanderbilt University Master of Genetic Counseling Program

08/2017: University of Alabama at Birmingham Supervisor Training

05/2017: Curriculum Development training workshops provided by Vanderbilt University School of Medicine Educator Development Core

04/2017: Vision Creation Workshop for Vanderbilt Master of Genetic Counseling Program

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

Mentorship:

08/2017-present: Faculty Member, Department of Pediatrics, Division of Genetics and Genomic Medicine

Clinical Supervision:

01/2017-05/2019: Primary Pediatric Rotation Supervisor for University of Alabama at Birmingham genetic counseling students

06/2018-08/2018: Primary Supervisor for Genetic Counseling Clinical Summer Research Rotation

10/2019-present: Primary Supervisor for Pediatric and Specialty Rotations

Leadership:

10/2019-present: Practicum Coordinator for VUGCP

**E. Professional Activities (Within the past 5 years):**

2016-present: Tennessee Genetic Counselor Association member

2017-2019: Faculty advisor for Vanderbilt University Undergraduate Genetic Counseling Club

2018-present: Sudden Death in the Young Expert Review Committee member

2018-present: Hazinski Society Member (professional development)

2019-present: National Society of Genetic Counselors Personalized Medicine SIG member

**F. Research, Funded Grants and/or Scholastic Endeavors: (Please only include accomplishments from the past 5 years):**

**Publications**

- Palmer C, McConkie-Rosell A, Holm I, LeBlanc K, Sinsheimer J, Briere L, Dorrani N, Herzog M, Lincoln S, Schoch K, Spillmann R, Brokamp E. "Understanding Adult Participant and Parent Empowerment Prior to Evaluation in the Undiagnosed Diseases Network". Journal of Genetic Counseling; March 2018
- Duis J, Wattum P, Scheimann A, Salehi P, Brokamp E, Fairbrother L, Childers A, Shelton A, Bingham N, Shoemaker A, Miller J. "A Multidisciplinary Approach to the Clinical Management of Prader-Willi syndrome". Molecular Genetics and Genomic Medicine; October 2018
- Macnamara E, Schoch K, Kelley E, Fieg E, Brokamp E, Signer R, LeBlanc K, McConkie-Rosell A, Palmer C. "Cases from the Undiagnosed Diseases Network: The Continued Value of Counseling Skills in a New Genomic Era in Journal of Genetic Counseling". Journal of Genetic Counseling; April 2019
- Reuter C, Kohler J, Bonner D, Zastrow D, Fernandez L, Dries A, Marwaha S, Davison J, Brokamp E, Herzog M, Hong J, Macnamara E, ROsenfeld J, Schoch K, Spillmann R, Loscalzo J, Drier J, Stoler J, Sweetser D, Palmer C, Phillips J, Shahi

V, Adams D, Yang Y, Ashley E, Fisher P, Mulihill J, Bernstein J, Wheeler M. "Yield of Whole Exome Sequencing in Underinsured Patients with Undiagnosed Diseases". Early publication in Journal of Genetic Counseling

- Patrick A, Wang W, Brokamp E, Graham T, Aune T, Duis J. "Juvenile idiopathic arthritis associated with a mutation in *GATA3*." *Arthritis Research and Therapy*; June 2019.
- Burdick K, Cogan J, Rives L, Robertson A, Koziura M, Brokamp E, Duncan L, Hannig V, Pfothenauer J, Vanzo R, Paul M, Bican A, Morgan T, Duis J, Newman J, Hamid R, Phillips J. "Limitations of exome sequencing in detecting rare and undiagnosed diseases." *American Journal of Human Genetics*; March 2020

## **Presentations**

- Brokamp E, Ahern C, Hercher L, Faucett A. "The Utility of Genomic Variant Databases in Genetic Counseling" poster presented at 35<sup>th</sup> Annual Educational Conference of the National Society of Genetic Counselors; 2016 Sep 28-Oct 1; Seattle, WA
- Phillips J, Bican A, Cogan J, Koziura M, Germano L, Hannig V, Fairbrother L, Pfothenauer J, Brokamp E, Sergent J, Duis J, Newman J, Hamid R. "Undiagnosed Diseases Network (UDN) Successes in Precision Medicine" poster presented at Annual Education Conference of ASHG; 2017 Oct 17-21; Orlando, FL
- Brokamp E, Koziura M, Phillips J, Bican A, Cogan J, Hannig V, Fairbrother L, Pfothenauer J, Duis J, Newman J, Hamid R. "Noncoding and Copy Number Variants Solve Multiple Undiagnosed Diseases Network (UDN) Mysteries" poster presented at Pediatric Research Conference at VUMC; 2018 Apr 20; Nashville, TN
- Brokamp E, Koziura M, Phillips J, Bican A, Cogan J, Fairbrother L, Duis J, Newman J, Hamid R. "Negative Whole Exome Sequencing...Now What?" poster presented at National Society of Genetic Counselors 36th Annual Education Conference ; 2018 Nov 13-17; Atlanta, GA
- Brokamp E, Koziura M, Phillips J, Bican A, Cogan J, Fairbrother L, Duis J, Newman J, Hamid R. "Evidence for a New MSL2-Related Disease Using Internal VUMC De-Identified Database" poster accepted for ACMG Clinical Genetics Meeting; 2019 Apr 2-6; Seattle, WA
- Brokamp E, Newman R, Morgan T, Shallow N, Wheeler F, Yenamandra A. "Individual with unique features of 49, XXXYY syndrome whose prenatal cfDNA screening predicted 47, XXY" poster presented at American College of Medical Genetics Online Conference 2020