Curriculum Vitae: Updated August 31, 2022

I. IDENTIFYING DATA

Full Name	Christina G. Tise, MD, PhD
Preferred First Name	Christy
Former Last Name	Perry
Current Position	Clinical Instructor, Pediatrics - Medical Genetics
Current Affiliation	Stanford University
Email Address	cgtise@stanford.edu

II. EDUCATION HISTORY

Colleges and Universities Attended

Aug 2006 – May 2009	BS, Biochemistry, Virginia Tech, Blacksburg, VA
Aug 2010 – May 2018	MD, University of Maryland School of Medicine, Baltimore, MD
June 2012 – Dec 2015	PhD, Epidemiology and Human Genetics: Human Genetics and Genomic Medicine, University of Maryland School of Medicine, Baltimore, MD

Residency and Fellowship Training

June 2018 – June 2019	Internship, Pediatrics, Lucile Packard Children's Hospital, Stanford, CA
July 2019 – June 2021	Residency, Medical Genetics, Stanford University Medical Center & Lucile Packard Children's Hospital, Stanford, CA
July 2021 – June 2022	Fellowship, Clinical Biochemical Genetics, Stanford University Medical Center & Lucile Packard Children's Hospital, Stanford, CA

Board Certification and Licenses

2019 – Present	California Medical License – Physician and Surgeon A
2019 – Present	Drug Enforcement Administration (DEA) Registration
Sept 2021 – Present	American Board of Medical Genetics and Genomics: Clinical Genetics and Genomics (#2021106)
Board Eligible (offered Aug 2023)	American Board of Medical Genetics and Genomics: Clinical Biochemical Genetics

III. EMPLOYMENT

Academic Appointments: No prior appointments

Other:

Jan 2016 – April 2016 Postdoctoral Research, Translational Genetics Department, Regeneron Genetics Center LLC, Regeneron Pharmaceuticals, Inc., Tarrytown, NY

IV. HONORS AND AWARDS

2006	Virginia Tech Alumni Association of Delaware Scholarship Recipient
2006-2009	Dean's List, Virginia Tech
2006	University Writing Award and Publication, Virginia Tech
2007-2009	University Honors Program, Virginia Tech
2009	Summa Cum Laude & Commonwealth Scholar, Virginia Tech
2010-2014	Wilbur E. Pestles Medical School Scholarship Recipient for Delaware Residents
2011	Anatomy Honors Project, Indexing of Embryology Specimen Collection, UMSOM
2011	3rd Place Oral Presentation Award, Medical Student Research Day, UMSOM
2013	2nd Place Poster Presentation Award, Cardiovascular Retreat, UMSOM
2014	Elaine Miye Otani Scholar, Program in Epidemiology and Human Genetics, UMSOM
2015	Best Poster Presentation Award, Graduate Research Conference, UMSOM
2015	St. Jude Future Fellow, St. Jude Children's Research Hospital
2016	Commencement Speaker, Program in Epidemiology & Human Genetics, UMSOM
2016	PhD Thesis of the Year Award, Graduate Program in Life Sciences, UMSOM
2018	J. Edmund and Kathryn S. Bradley Award for Excellence in Pediatrics, UMSOM
2018	Outstanding Recent Biochemistry Undergraduate Alumni Award, Virginia Tech
2020	Henry Christian Award, American Federation for Medical Research
2021	Pfizer/ACMGF Next Generation Biochemical Genetics Fellowship Award
2022	Abbott Nutrition Subspecialty Travel Award, Western Society for Pediatric Research
2022	Trainee Travel Award, Society of Inherited Metabolic Disorders
2022	Top-Rated Abstract, American College of Medical Genetics

V. BIBLIOGRAPHY

Complete list of published work available in MyBibliography

Peer-Reviewed Publications (16 total, 1 in press, 1 submitted)

Peer-Reviewed Original Research (6 total)

1. Ellero-Simatos S, Lewis JP, Georgiades A, Yerges-Armstrong LM, Beitelshees AL, Horenstein RB, Dane A, Harms AC, Ramaker R, Vreeken RJ, **Perry CG**, Zhu H, Sànchez CL, Kuhn C, Ortel TL, Shuldiner AR, Hankemeier T, Kaddurah-Daouk R. Pharmacometabolomics reveals that serotonin is implicated in aspirin response variability. *CPT: Pharmacometrics & Systems Pharmacology,* 2014 Jul 16;3(7):e125.3, e125.
   **Contributed to the study design, performed experiments, generated and collected data, interpreted data, produced figures, and edited manuscript*
2. **Perry CG,** Maloney KA, Beitelshees AL, Jeng L, Ambulos NP, Shuldiner AR, Blitzer MG. Educational innovations in clinical pharmacogenomics. *Clin Pharmacol Ther;* 2016 Jun;99(6):582–584.
3. **Tise CG,** Perry JA, Anforth LE, Pavlovich MA, Backman JD, Ryan KA, Lewis JP, O'Connell JR, Yerges-Armstrong LM, Shuldiner AR. From Genotype to Phenotype: Nonsense Variants in SLC13A1 Are Associated with Decreased Serum Sulfate and Increased Serum Aminotransferases. *G3;* 01 Sept 2016;6(9), 2909–2918.
4. **Tise CG,** Anforth LE, Zhou AE, Perry JA, McArdle PF, Streeten EA, Shuldiner AR, Yerges-Armstrong LM. Sex-specific effects of serum sulfate level and SLC13A1 nonsense variants on DHEA homeostasis. *Mol Genet Metab Rep;* Mar 2017;10, 84–91.
5. **Perry CG,** Holmes KG, Gruber-Baldini AL, Anderson KE, Shulman LM, Weiner WJ, Reich SG. Are Patients with Psychogenic Movement Disorders More Likely to be Healthcare Workers? *Mov Disord Clin Pract;* 2016 Apr 26;4(1):62-67.
6. **Tise CG,** Morales JA, Lee AS, Velez-Bartolomei F, Floyd BJ, Levy RJ, Cusmano-Ozog KP, Feigenbaum AS, Ruzhnikov MRZ, Lee CU, Enns GM. Aicardi-Goutières syndrome may present with positive newborn screen for X-linked adrenoleukodystrophy. *Am J Med Genet A;* 2021 Jun;185(6), 1848– 1853.

Peer-Reviewed Case Reports/Series (4 total)

7. **Tise CG**, Joshi NS, Erice-Taganas AD, Blecharczyk EM. Case 1: Rapidly Rising Bilirubin Level in a 3-day-old Term Infant. *NeoReviews;* 2020 Oct;21(10), e687–e690.
8. Morales JA*, **Tise CG***, Narang A, Grimm PC, Enns GM, Lee CU. Profound neonatal lactic acidosis and renal tubulopathy in a patient with glycogen storage disease type IXα2 secondary to a de novo pathogenic variant in PHKA2. *Mol Genet Metab Rep;* 2021 Jun;27, 100765
   **Contributed equally to this work as first author*
9. Morales AM, Curry C, **Tise CG**, Kratz L, Enns G. Clinical characterization of a new individual with mild SC4MOL deficiency: diagnostic and therapeutic implications. *J Transl Genet Genom;* 2022;6:257-65.
   **Contributed to writing of the manuscript, provided revisions to scientific content, and provided grammatical revisions*
10. **Tise CG**, Matalon DR, Manning MA, Byers HM, Grover M. Short Bones, Renal Stones, and Diagnostic Moans: Hypercalcemia in a Girl Found to Have Coffin-Lowry Syndrome. *J Investig Med High Impact Case Rep;* 2022.

Peer-Reviewed Publications In Press or Submitted (2 total)

11. Cusmano-Ozog KP, Renck A, **Tise CG**. Recent tPA administration can cause pseudo-hyperargininemia and may mimic arginase deficiency or arginine supplementation. In press, *JIMD Reports*.
12. **Tise CG**, Palma MJ, Cusmano-Ozog KP, Matalon DM. Creatine transporter deficiency presenting with failure-to-thrive without seizures: a case report of a potentially under-recognized phenotype. Submitted to *J Investig Med High Impact Case Rep.*

Peer-Reviewed Publications Other (4 total)

13. **Perry CG,** Shuldiner AR. Pharmacogenomics of anti-platelet therapy: how much evidence is enough for clinical implementation? *J Hum Genet;* 2013 Jun;58(6), 339–345.
14. Fisch AS, **Perry CG**, Stephens SH, Horenstein RB, Shuldiner, AR. Pharmacogenomics of antiplatelet and anti-coagulation therapy. *Curr Cardiol Rep;* 2013 Jul;15(7), 381.
    **Contributed to the outline and writing of the manuscript, provided revisions to scientific content, and provided grammatical revisions*
15. **Tise CG.** Medical genetics training in the COVID-19 era: A resident's perspective. *Am J Med Genet A;* 07 June 2021;185(10), 2861–2862.
16. **Tise CG,** Byers HM. Genetics of recurrent pregnancy loss: A review. *Curr Opin Obstet Gynecol;* 2021 Apr 1;33(2), 106–111.

Non-Peer-reviewed Articles (1)

1. Thompson R, Raabe J, **Tise C**, Bindiganavile S, Bhat N, Lee A. Noonan syndrome. American Academy of Ophthalmology, EyeWiki. Sept 2019. https://eyewiki.aao.org/Noonan_syndrome.
   **Contributed to the writing of the article, provided revisions to scientific and clinical content, and provided grammatical revisions*

Book Section (1)

1. **Perry, C**. Chapter 7.3 Writing About the Image: "A Picture Worth 1,454 Words." In *Composition at Virginia Tech: Written, Spoken, and Visual Composition* (pp. 157–160). Pearson Custom Publishing, 2007.

Published Abstracts (15 of 35 total)

1. **Perry C**, Holmes K, Anderson K, Gruber-Baldini A, Fishman P, Shulman L, Weiner W, Reich S. Are Patients with Psychogenic Movement Disorders More Likely to be Healthcare Workers? *Neurology* 78(1):X15, 2012. Poster presentation, Annual American Academy of Neurology Meeting, New Orleans, LA, April 2012.
2. **Perry C**, Holmes K, Gruber-Baldini A, Anderson K, Shulman L, Weiner W, Reich SG. Are patients with psychogenic movement disorders more likely to be healthcare workers? *Mov Disord* 27: S87, 2012. Poster presentation, Movement Disorder Society's International Congress of Parkinson's Disease and Movement Disorders, Dublin, Ireland, June 2012.

3. Kant R, **Perry CG**, Lewis JP, Horenstein RB, Streeten EA, Shuldiner AR, Munir KM. Vitamin D Inhibits Human Platelet Aggregation: Implications for Hypercoagulable State in Diabetes. *Diabetes* 63 (1): A569, 2014.
4. Taylor SI, Perry JA, Ryan K, **Perry CG**, Damcott CM, Horenstein RB, Mitchell B, O'Connell JR, O'Conner TD, Pollin TI, Silver KD, Yerges-Armstrong L, Shuldiner AR. Genetic Variant (R27S) in Insulin-like Peptide 5 is Associated with Increased Insulin Sensitivity. *Diabetes* 64 (1): A457, 2015. Poster presentation, American Diabetes Association Scientific Sessions, Boston, MA, June 2015.
5. **Tise CG**, Kleinberger JW, Pavlovich MA, Daue ML, Loesch DP, Reid JG, Overton JD, O'Connell JR, Perry JA, Yerges-Armstrong LM, Shuldiner AR, Zaghloul NA. Autism in the Amish: Exome Sequencing Unveils Novel Coding Variant. *J Investig Med* 67: 238, 2019. Oral presentation, Western Medical Research Conference, Carmel, CA, January 2019.
6. **Tise CG**, DeFilippo C, Ruzhnikov M, Stevenson DA. Monozygotic Twins Discordant for Cranial Dysinnervation Disorder: Evidence of Vascular Disruption. *J Investig Med* 68: 264, 2020. Oral presentation, Western Medical Research Conference, Carmel, CA, January 2020.
7. **Tise CG**, Grover M, Matalon DR, Byers H. Short Bones, Renal Stones, and Diagnostic Moans: Hypercalcemia in a Girl Found to Have Coffin-Lowry Syndrome. *J Investig Med* 69:105, 2021. Oral presentation, Western Medical Research Conference, Virtual, January 2021.
8. Tise C, Velez-Bartolomei F, Morales JA, Lee C, Bernstein J, Enns G. Unexpected diagnoses in patients with abnormal newborn screening. *Molecular Genetics and Metabolism* 132: S354, 2021. American College of Medical Genetics Annual Clinical Genetics Meeting, Virtual, March 2021.
9. Niehaus AD, **Tise CG**, Manning MA, Stevenson DA. Variable Expressivity in NTRK1-Congenital Insensitivity to Pain with Anhidrosis (CIPA). *J Investig Med* 70: 192-193, 2022. Poster presentation, Western Society for Pediatric Research Annual Meeting, Carmel, CA, January 2022.
10. Frankel R, **Tise CG**, Sanyoura M, Bernstein JA, Philipson LH. Different Exons, Different Disorders: Anthelia and Branchial Sinus Anomalies are Features of a Distinctive KMT2D-associated Disorder. *J Investig Med* 70: 239, 2022. Oral presentation, Western Society for Pediatric Research Annual Meeting, Carmel, CA, January 2022.
11. Tahata S, **Tise CG**, Floyd B, Cusmano-Ozog K. Barth Syndrome: At the Confluence of Cardiology, Dysmorphology, and Biochemical Genetics. presentation. *J Investig Med* 70: 272, 2022. Oral presentation, Western Society for Pediatric Research Annual Meeting, Carmel, CA, January 2022.
12. **Tise CG**, Lee CU, Mendelsohn BA, Woods J, Cusmano-Ozog K. MT-ATP6-Associated Mitochondrial Disease Can Present with Low Citrulline by Newborn Screening and More: Defining the Biochemical Phenotype. *J Investig Med* 70: 237, 2022. Oral presentation, Western Society for Pediatric Research Annual Meeting, Carmel, CA, January 2022.
13. **Tise CG**, Grand K, Morales JA, Gates R, Graham Jr JM, Enns GM, Gomez-Ospina N, Mak J, Cowan T, Cusmano-Ozog K. Biochem for the Win! The Added Value of Biochemical Genetic Testing for Diagnosis and Variant Interpretation in the Genomic Era. *Genetics in Medicine* 24: S24, 2022. Poster presentation, American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting, Nashville, TN, March 2022.

14. Tahata S, **Tise C**, Floyd B, Cusmano-Ozog K, Ruzhnikov M, Enns G. Transplantation and Long-Term Follow-Up in DNAJC19-Associated Dilated Cardiomyopathy with Ataxia. *Molecular Genetics and Metabolism* 134: 302, 2022. Poster presentation, Society for Inherited Metabolic Disorders Annual Meeting, Orlando, FL, April 2022.
15. **Tise CG**, Mendelsohn BA, Lee CU, Woods J, Hall P, Tang H, Rinaldo P, Cowan T, Cusmano-Ozog K. Mitochondrial-ATP6-associated Disease Presents with Distinct Pattern on Newborn Screening: Should It Be Included as a Secondary Condition? *Molecular Genetics and Metabolism* 135: 247-248, 2022. Oral presentation, Society for Inherited Metabolic Disorders Annual Meeting, Orlando, FL, April 2022.

Abstracts (20 of 35 total)

16. **Perry C**, Holmes K, Anderson K, Gruber-Baldini A, Fishman P, Shulman L, Weiner W, Reich S. Are Patients with Psychogenic Movement Disorders More Likely to Be Healthcare Workers? Oral presentation, University of Maryland SOM Annual Medical Student Research Day, Baltimore, MD, November 2011.
17. Ellero-Simatos S, Georgiades A, Lewis JP, **Perry CG**, Ramaker R, Yerges-Armstrong L, Beitelshees AL, Horenstein RB, Dane A, Harms A, Zhu H, Shuldiner AR, Hankemeier T, Kaddurah-Daouk R. Pharmacometabolomics of Aspirin: New Insights about an Old Drug. Poster presentation, International Conference of the Metabolomics Society, Glasgow, Scotland, July 2013.
18. **Perry CG**, Ellero-Simatos S, Georgiades A, Lewis JP, Ramaker R, Yerges-Armstrong L, Beitelshees AL, Horenstein RB, Dane A, Harms A, Zhu H, Shuldiner AR, Hankemeier T, Kaddurah-Daouk R. Pharmacometabolomics of Platelet Aggregation: The Effect of Serotonin in Response to Aspirin Administration. Poster presentation, Annual University of Maryland SOM Cardiovascular Retreat, Baltimore, MD, November 2013.
19. **Perry CG**, Ellero-Simatos S, Lewis JP, Georgiades A, Yerges-Armstrong L, Beitelshees AL, Horenstein RB, Dane A, Harms A, Ramaker R, Zhu H, Sànchez CL, Kuhn C, Ortel TL, Shuldiner AR, Hankemeier T, Kaddurah-Daouk R. Pharmacometabolomics reveals that serotonin is implicated in aspirin response variability. Oral presentation, Graduate Research Conference, University of Maryland SOM, Baltimore, MD, March 2014.
20. **Perry CG**, Maloney KA, Doyle LE, Ambulos Jr. NP, Wachbroit RS, Blitzer MG, Shuldiner AR. Personal Genomes in Medical Education: Pharmacogenomics. Poster presentation, American College of Medical Genetics Annual Clinical Genetics Meeting, Nashville, TN, March 2014.
21. **Perry CG**, Perry JA, Anforth LE, O'Connell JR, Yerges-Armstrong LM, Shuldiner AR. From Genomic Nonsense to Biological Significance: SLC13A1 Nonsense Variants, Serum Sulfate and More. Poster presentation, Graduate Research Conference, University of Maryland SOM, Baltimore, MD, March 2015.
22. **Perry CG**, Maloney KA, Blitzer MG, Jang LJ, Ambulos Jr. NP, Shuldiner AR. Embedding Pharmacogenomics and Personalized Medicine Education into the Medical School Curriculum. Poster presentation, American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting, Salt Lake City, UT, March 2015.

23. **Perry CG,** Perry JA, Anforth LE, Pavlovich MA, Ryan KA, O'Connell JR, Yerges-Armstrong LM, Shuldiner AR. From Genomic Nonsense to Biological Significance: SLC13A1 Nonsense Variants, Serum Sulfate, and Clinical Implications. Poster presentation, Pharmacogenetics Research Network Semi-Annual Meeting, State College, PA, April 2015.
24. **Perry CG**, Perry JA, Anforth LE, Pavlovich MA, Ryan KA, O'Connell JR, Yerges-Armstrong LM, Shuldiner AR. From Genomic Nonsense to Biological Significance: SLC13A1 Nonsense Variants, Serum Sulfate, and Clinical Implications. Poster presentation, St. Jude Future Fellow Research Conference, Memphis, TN, June 2015.
25. **Perry CG**, Maloney KA, Blitzer MG, Jang LJ, Ambulos Jr. NP, Shuldiner AR. Embedding Pharmacogenomics and Personalized Medicine Education into the Medical School Curriculum. Poster presentation, Up Close and Personalized International Congress on Personalized Medicine, Tel Aviv, Israel, June 2015.
26. **Perry CG**, Perry JA, Anforth LE, Pavlovich MA, Ryan KA, O'Connell JR, Yerges-Armstrong LM, Shuldiner AR. From Genomic Nonsense to Biological Significance: SLC13A1 Nonsense Variants, Serum Sulfate, and Clinical Implications. Poster presentation, 30th Annual MD-PhD National Student Conference, Keystone, CO, July 2015.
27. **Perry CG**, Yerges-Armstrong LM, Shuldiner AR, Zaghloul NA. Reeling in the Effect of Decreased Sulfate on Embryonic Development and Risk of Autism Spectrum Disorder through Disruption of slc13a1 in Zebrafish. Poster presentation, Annual Meeting of The American Society of Human Genetics, Baltimore, MD, October 2015.
28. **Perry CG**, Yerges-Armstrong LM, Morton DH, Shuldiner AR, Puffenberger EG, Streeten EA. Is It All Nonsense? Autism Spectrum Disorder, Low Serum Sulfate, and a Nonsense Mutation in SLC13A1 Observed in an Old Order Mennonite Family with Osteoporosis-Pseudoglioma Syndrome. Poster presentation, American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting, Tampa, FL, March 2016.
29. **Tise CG**, Kleinberger JW, Pavlovich MA, Daue ML, Perry JA, O'Connell JR, Reid JG, Overton JD, Yerges-Armstrong LM, Shuldiner AR, Zaghloul NA. Autism Spectrum Disorder in the Amish: Exome Sequencing in a Founder Population Unveils Novel Coding Variants. Poster presentation, Annual Meeting of The American Society of Human Genetics, Orlando, FL, October 2017.
30. **Tise CG**, Kleinberger JW, Pavlovich MA, Daue ML, Loesch DP, Reid JG, Overton JD, O'Connell JR, Perry JA, Yerges-Armstrong LM, Shuldiner AR, Zaghloul NA. Autism in the Amish: Exome Sequencing Unveils Novel Coding Variant. Poster presentation, 10th Annual Pediatrics Research Retreat, Stanford, CA, April 2019.
31. **Tise CG**, Kleinberger JW, Pavlovich MA, Daue ML, Loesch DP, O'Connell JR, Perry JA, Yerges Armstrong LM, Shuldiner AR, Zaghloul NA, Regeneron Genetics Center. Autism spectrum disorder in the Amish: Exome sequencing unveils a novel missense variant in EvC ciliary complex subunit 1 (EVC), a known regulator of the sonic hedgehog signaling pathway. Poster presentation, Annual Meeting of The American Society of Human Genetics, Houston, TX, October 2019.
32. **Tise CG**, Bernstein JA, Enns GM. The Value of Additional Molecular and Biochemical Evaluation in Patients with Abnormal Perinatal Screening. Dynamic poster presentation, Annual Meeting of The American Society of Human Genetics, Virtual, October 2020.

33. Liu LY, **Tise CG**, Marqueling AL. ERCC2 Overlap syndrome: novel report of a 9-month-old boy with phenotypic features of xeroderma pigmentosum, trichothiodystrophy, and cerebrooculofacioskeletal syndrome. Oral presentation, Annual Pre-AAD Society for Pediatric Dermatology Meeting: Cases of the Year Session, Virtual, March 2021.
34. **Tise CG**, DeFilippo C, Gates RW, Ruzhnikov M, Webb BD, Jabs EW, Stevenson DA. Support for a Vascular Disruption Process from a Case of Monozygotic Twins Discordant for Congenital Cranial Dysinnervation Disorder. Oral presentation, David W. Smith Workshop, Stevenson, WA, September 2021.
35. Niehaus AD, Mendelson BA, Zimmerman B, Lee CU, Manning MA, **Tise CG**. Neonatal Lupus: An Intrauterine Exposure Associated with Positive Newborn Screening for X-ALD. Oral presentation, David W. Smith Workshop, Norfolk, VA, August 2022.

VI. GRANT FUNDING

Current:

07/2021 – 06/2023 Funder: Pfizer/American College of Medical Genetics Foundation, Next Generation Clinical Laboratory Biochemical Genetics Fellowship Award
Title: The Role of Inborn Errors of Metabolism in Pregnancy Loss: A Population and Biochemical Approach
Role: PI

Submitted: None

Completed: None

VII. CLINICAL TRIALS: NONE

VIII. PATENTS: NONE

IX. EDITORIAL SERVICE:

Ad Hoc Reviewer

2022 – Present *Molecular and Cellular Biochemistry*

X. SERVICE AS GRANT REVIEWER: NONE

XI. UNIVERSITY ADMINISTRATIVE SERVICE

Committee Service:

2012 – 2016 Medical Science Training Program Advisory Committee Student Member and Interviewer, UMSOM
2012 – 2016 Graduate Student Association Representative, UMSOM

2013 – 2016 Ambassador for Epidemiology & Human Genetics Program, UMSOM
2018 – 2019 Pediatric Residency Counsel Representative for Medical Genetics, Stanford University School of Medicine
2019 – 2020 Medical Genetics Wellness Committee, Resident Representative, Stanford University School of Medicine

Leadership Roles:
2011 – 2012 President of Medical Genetics Interest Group, UMSOM
2011 – 2012 President of Medical Students for Choice, UMSOM
2020 – 2021 Inaugural Chief Resident for Medical Genetics Residency Program, Stanford University Medical Center & Lucile Packard Children's Hospital University

Quality Improvement Projects:
2021 – Pres. Stanford Biochemical Genetic Newborn Screening Workbook Pilot Project (Study phase of PDSA cycle). SMART Aim: Design, develop and produce an interactive trainee resource to increase the educational yield to administrative burden ratio associated with taking newborn screening call. Assess trainees' improved knowledge, clinical application, and engagement using a pre- and post-assessment at the beginning and end of each call week and the 2022-2023 academic year.

XII. SERVICE TO PROFESSIONAL ORGANIZATIONS

Membership:
American Medical Association (AMA) Member
American College of Medical Genetics (ACMG) Member
Society for Inherited Metabolic Disorders (SIMD) Member
American Federation for Medical Research (AFMR)
Western Society for Pediatric Research (WSPR) Member

Committee Service:
2020 Judge for American Society for Human Genetics DNA Day Highschool Essay Contest
2021– Pres. American College of Medical Genetics, Membership Committee

Leadership Roles:
2020 – Pres. Global Genomic Medicine Collaborative (G2MC), Young Investigator Representative to Steering Committee

XIII. INVITED PRESENTATIONS

Grand Rounds:
Nov 2019 "Gene Therapy Using Adeno-Associated Viral Vectors". Medical Genetics Grand Rounds, Division of Medical Genetics, Stanford University, Stanford, CA.

Nov 2020 "Uterine Transplantation: Genetics, Ethics, and Growing Pains". Medical Genetics Grand Rounds, Division of Medical Genetics, Stanford University, Stanford, CA.

National and Regional Meetings:

July 2013 "Pharmacometabolomics of Platelet Aggregation: The Effect of Serotonin in the Presence of Aspirin". 5th Annual University of Maryland Medical Science Training Program Retreat, Baltimore, MD.

Oct 2021 "An Evaluation of Confirmatory Practices in X-ALD Newborn Screening: Are We Doing Enough?" Association of Public Health Laboratories Newborn Screening Symposium, Virtual.

Jan 2022 "Elevated C26 Alternative Diagnoses & Travere Newborn Screening Reflex Testing Program". 6th Annual Adrenoleukodystrophy Standards of Care Meeting Roundtable Discussion, Adrenoleukodystrophy Alliance, Virtual.

International Meetings: None

IX. COMMUNITY SERVICE

2008 – 2009 Biochemistry Club, Gilbert Linkous Elementary School Science Ambassador, Virginia Tech, Blacksburg, VA. Role: Assisted in organizing and leading weekly visits to a local elementary school where students were provided various lessons to cultivate interest in science at a young age.

2009 – 2010 RAFT Crisis Hotline, New River Valley Community Services, Blacksburg, VA. Role: Answered incoming calls and assisted and assessed callers' needs using skills obtained from the required training course.

2010 – 2011 Community Connections, University of Maryland Emergency Department, UMSOM, Baltimore, MD. Role: Assisted uninsured patients with the process of applying for Maryland health insurance programs.

2010 – 2012 Adolescent Empowerment Program, Baltimore YO! and Baltimore City Juvenile Justice Center, UMSOM, Baltimore, MD. Role: Taught the monthly sexual health education course to students. Curriculum included various sexual health related issues such as contraception, parenting, nutrition, and sexually transmitted diseases.

2014 Vivian T. Thomas Medical Arts Academy High School Internship Program, UMSOM, Baltimore, MD. Role: Mentored a high school senior through the entire process of a basic science laboratory research project.

2017 Delaware Miss Amazing Pageant – Celebrating the Abilities of Girls and Women with Disabilities, Wilmington, DE. Role: Buddy for Miss Amazing Pageant Contestant with Down Syndrome throughout the day, assisting with orientation, interviews, rehearsal, and final pageant performance.

2021 Stanford Medicine Healthcare Workers COVID Vaccination Clinic. Role: Administered intramuscular injections to Stanford healthcare workers during multiple 8-hour volunteer shifts.

X. TRAINEES

Undergraduate Students: None

Graduate Students:

Leslie Anforth, PharmD Candidate. 05/2014-08/2014. Primary research mentor for Health Professions – Student Training in Aging Research Program (HP-STAR) Summer Student, University of Maryland School of Medicine, Baltimore, MD.

Sabina Cook, Genetic Counseling Masters Candidate. 2021-2022. Primary research mentor for thesis project: *Evaluating the Use and Clinical Impact of Molecular Genetic Testing in Children Who Screen Positive by California Newborn Screening for an Inborn Error of Metabolism.*

Residents/Fellows:

Annie Niehaus, MD, Medical Genetics Resident. 2020-Present. Primary research mentor for residency research projects pertaining to California newborn screening for X-linked adrenoleukodystrophy.

Postdoctoral scholars: None

XI. TEACHING

Courses Taught:

PREV 620: *Principles of Biostatistics*, Graduate Teaching Assistant, University of Maryland School of Medicine, Baltimore, MD, 2013.

Foundations of Disease, Problem-based Facilitator, University of Maryland School of Medicine, Baltimore, MD, 2013 – 2016.

Host Defenses and Infectious Disease, Problem-based Facilitator, University of Maryland School of Medicine, Baltimore, MD, 2013 – 2016.

Pathophysiology and Therapeutics, Problem-based Facilitator, University of Maryland School of Medicine, Baltimore, MD, 2013 – 2016.

PREV 619: *Introduction to SAS*, Graduate Teaching Assistant, University of Maryland School of Medicine, Baltimore, MD, 2014.

GENE 284: *Medical Genetics Seminar*, Curated Content and Lead Discussion ~5-10x per Year, Stanford University Masters in Genetic Counseling Training Program, Stanford, CA, 2019 – 2021.

GENE 2020: *Human Genetics*, Problem-based Facilitator, Stanford University School of Medicine, Stanford, CA, 2020 – Present.

BIOC 200: *Applied Biochemistry*, Problem-based Facilitator, Stanford University School of Medicine, Stanford, CA, 2020 – Present.

GENE 280: *Metabolic Genetic Counseling*, Guest Lecturer, Stanford University Masters in Genetic Counseling Training Program, Stanford, CA, 2021 – Present.

GENE 272: *Introduction to Medical Genetics*, Course Instructor, Stanford University Masters in Genetic Counseling Training Program, Stanford, CA, 2022 – Present.

GENE 274A & 274B: *A Case Based Approach to Clinical Genetics*, Course Co-Instructor, Stanford University Masters in Genetic Counseling Training Program, Stanford, CA, 2022 – Present.

Lectures Developed and Presented:

Pediatric Residency Program Didactics, Lucile Packard Children's Hospital, Stanford, CA

- *Genetic Testing 101*
- *Gene Therapy Using Adeno-Associated Viral Vectors*

Medical Genetics Residency Program Didactics, Stanford University Medical Center & Lucile Packard Children's Hospital, Stanford, CA

- *Biochemical Genetics Weekly Metabolic Minute & Highlight of the Week (Lecture Series)*
- *Cocktails and Wagging Tails: A Tale of Genetic Hypersociability (Williams syndrome)*
- *Craniofacial Anomalies and Orofacial Clefts*
- *3-methylcrotonyl-CoA carboxylase deficiency (3-MCC deficiency)*
- *Lesch Nyhan syndrome*
- *Cystinuria: Prenatal Diagnosis by Ultrasound*
- *Incidental Findings by Newborn Screening (Zellweger spectrum disorder)*
- *Biochemical Genetics Jeopardy*
- *Prenatal Genetics Jeopardy*
- *Cytogenetics Jeopardy*
- *Regions of Homozygosity: Finding the Needle in the Haystack Effectively*
- *Five Carbon Acylcarnitines and Associated Diseases*
- *CLIR Clinical Utility: A Group Exercise in Newborn Screening Pretest Probability*
- *Newborn Screening 101*