

# Frances “Frankie” Peterson-Burch PhD(c) RN BSN

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## **Education**

Doctor of Philosophy, anticipated defense: Summer 2021  
University of Pittsburgh School of Nursing (minor in genetics)  
Grade Point Average: 3.82

Bachelor of Science (accelerated), 2015  
West Virginia University School of Nursing  
Grade Point Average: 3.76 (magna cum laude)

Bachelor of Arts, 2009  
West Virginia University Department of English  
Grade Point Average: 3.84 (summa cum laude)

## **Licensure**

RN License Number RN677688 (Pennsylvania) 2015-present  
CPR certified by the American Heart Association 2014-present

## **Research Awards and Scholarships**

2019	International Society of Nurses in Genetics (ISONG) Research Award—\$2,000
2019-2020	Margaret E. Wilkes Scholarship Fund Award, University of Pittsburgh School of Nursing—\$2,085
2019-2020	Doris and Davina Gosnell Endowed Nursing Scholarship, University of Pittsburgh School of Nursing—\$2,500
2018-2020	Low Vision Scholarship, Jonas Philanthropies— \$10,000
2018	Ruth and Bill Fincke PhD Student Research Award, University of Pittsburgh-- \$1,350
2016-2018	Jonas Legacy Scholarship, Jonas Philanthropies—\$10,000
2016-2017	Judith A. Erlen Nursing PhD Student Research Award, University of Pittsburgh School of Nursing—\$1,000
2015-2018	T32NR009759; Targeted Research and Academic Training of Nurses in Genomics, University of Pittsburgh— fellowship with full tuition, fees, and expenses
2009	Eleanor Tucker Donley Memorial Scholarship, West Virginia University—\$1,000
2008	Outstanding Junior English Major, West Virginia University—\$1,000
2006-2009	Promise Scholarship, State of West Virginia—full tuition and fees to any public college or university in the state
2006	Gage Cosner Memorial Scholarship, Frankfort High School, Ridgeley, WV—\$500

## **Other Honors and Activities**

2020	Invited Content Expert in the Low Vision Support Planning Committee, Jonas Philanthropies
2019	Conference Co-Organizer, Jonas Philanthropies and the University of Pittsburgh School of Nursing Present “Nursing Leadership: What’s Your Superpower?”
2019	Invited Presenter, International Society of Nurses in Genetics Regional Meeting, University of Pittsburgh
2015-2020	Mentor, Undergraduate Research Mentorship Program, University of Pittsburgh
2017	Participant, Summer Genetics Institute, National Institutes of Health
2017	Invited Panelist, Jonas Philanthropies/New York Academy of Medicine’s Lecture on Low Vision and Blindness
2015	Student nurse, Amizade Multilateral Partnership for Interprofessional Exchange to provide basic medical services to villages along the Amazon and Tapajos Rivers in Brazil
2014-2015	Student ambassador, West Virginia University School of Nursing
2015	Peer mentor to incoming accelerated BSN students, West Virginia University School of Nursing
2014-2015	Volunteer, West Virginia University Children’s Hospital

2014-2015 Parish Nurse Volunteer, Immaculate Conception Catholic Church, Clarksburg, WV  
2009 Exchange student, Australian Catholic University in Brisbane, Australia  
2006-2007 Student journalist, *The Daily Athenaeum* (West Virginia University's student newspaper)

### **Academic Positions**

Teaching Fellow, NUR 1134c/1234c: Transition into Professional Nursing Clinical, Spring 2020 (clinical portion of course)  
University of Pittsburgh School of Nursing—Undergraduate (Traditional and Accelerated Students)  
Faculty: Dr. Luann Sowko

- Assist Dr. Sowko in implementing clinical policies to ensure that students are able to transition from a student nurse role to an independent nurse role in their last semester
- Approve and monitor student schedules to confirm that students fulfill the requirements of the course
- Orient student and clinical preceptors to course policies and expectations
- Conduct on-site orientation, midterm, and final site visits to monitor student performance
- Serve as the first point of contact for student and preceptor questions and concerns

Teaching Fellow, NUR 1680: Introduction to Genetics and Molecular Therapeutics, Fall 2019  
University of Pittsburgh School of Nursing—Undergraduate  
Faculty: Dr. Susan Wesmiller

- Assist Dr. Wesmiller in lecture preparation and presentation
- Assist Dr. Wesmiller in exam reviews
- Proctor exams
- Create and grade assignments
- Answer student questions
- Create and film the "Coffee Break" video series that review difficult material and address relevant genetic concepts

Teaching Fellow, NUR 1134c/1234c: Transition into Professional Nursing Clinical, Summer 2019 (clinical portion of course)  
University of Pittsburgh School of Nursing—Undergraduate (Traditional and Accelerated Students)  
Faculty: Dr. Darcy Waechter

- Assist Dr. Waechter in implementing clinical policies to ensure that students are able to transition from a student nurse role to an independent nurse role in their last semester
- Approve and monitor student schedules to confirm that students fulfill the requirements of the course
- Orient student and clinical preceptors to course policies and expectations
- Conduct on-site orientation, midterm, and final site visits to monitor student performance
- Serve as the first point of contact for student and preceptor questions and concerns

Teaching Fellow, NUR 1680: Introduction to Genetics and Molecular Therapeutics, Spring 2019  
University of Pittsburgh School of Nursing—Undergraduate  
Faculty: Dr. Mandy Schmella

- Assist Dr. Schmella in lecture preparation and presentation
- Assist Dr. Schmella in exam reviews
- Proctor exams
- Create and grade assignments
- Answer student questions
- Create and film the "Coffee Break" video series that review difficult material and address relevant genetic concepts

Graduate Student Researcher, August 2015-December 2017  
University of Pittsburgh School of Nursing, Department of Health Promotion and Development  
Principle Investigator: Dr. Denise Charron-Prochownik

- Provide research support, data analysis, poster creation, and research dissemination
- Edited the newest edition of the READY-Girls (Reproductive Health Education & Awareness of Diabetes in Youth for Girls), a preconception counseling and reproductive health program for adolescent females with diabetes
- Assisted in the READY-Girls cultural adaption for Native American adolescents
- Assisted in the READY-Girls cultural adaptation for Latina adolescents and their families
- Wrote and produced three scripts that were requested by the American Diabetes Association to our research team to represent vulnerable populations in the *Eliminating Disparities* campaign.
- Organized study team's participation in the American Diabetes Association Walk for a Cure, 2015-2016

Undergraduate Student Researcher, October 2014-August 2015  
West Virginia University's Erma Byrd Biomedical Research Center in Morgantown, WV  
Principle Investigator: Dr. Taura Barr

- Processed blood and aliquoted cells, serum, and plasma for use in biomarker and DNA analysis
- Provided research support for a community-based genomics project
- Assisted Dr. Barr in data collection and community discussion regarding genomic implications of health during our stroke education presentation for Osher Lifelong Learning Institute (OLLI) at West Virginia University and at the Villages at Heritage point in Morgantown, WV
- Assisted Dr. Barr in a community-led project pertaining to transitions of care after stroke discharge in rural areas
- Performed data entry tasks and patient record de-identification
- Assisted Dr. Barr in DNA extraction activities at Waynesburg Central Elementary School in Waynesburg, PA
- Organized project to investigate potential links between natural gas fracking and stroke incidence (not completed due to graduation)

### **Other Relevant Work Experience**

Refractive Surgical Coordinator/Marketing Director, April 2011-May 2013  
Regional Eye Associates in Morgantown, WV  
Supervisor: Shelley Idleman

- Provided patient education and assistance to both existing and potential refractive surgical patients
- Coordinated LASIK (standard and custom), photorefractive keratectomy (PRK), phototherapeutic keratectomy (PTK), intraocular collamer lens (ICL), and clear lens extraction (CLE)
- Managed surgically-approved patients informed consents, prescription information, and surgical charts
- Gave thorough post-operative instructions to patients and families
- Prepared patient payments and prepared billing sheets for accounting
- Represented Regional Eye Associates in health fairs and other community health programs
- Coordinated all internal and external marketing efforts for all seven of the practice's regional offices
- Wrote and produced all marketing publications and patient educational materials
- Oversaw and maintained the Regional Eye Associates website
- Organized billboard production and design for various locations around the tri-state region
- Mentored and oversaw the performance of the 2012 Regional Eye Associates summer marketing intern
- Wrote and distributed a monthly employee newsletter

### **Publications**

- Abujaradeh, H., Olshansky, E., **Peterson-Burch, F.**, Montgomery, K., Zender, R., Sorkin, D., & Charron-Prochownik, D. (2020). Adolescent Latinas' with Diabetes and their Mothers' Understanding of Diabetes and Reproductive Health: Converging Themes to Inform a Culturally Sensitive Preconception Counseling Program. *Journal of Pediatric Health Care*. 35(2):205-215. doi: <https://doi.org/10.1016/j.pedhc.2020.10.004>
- Wagner, M. A., Wesmiller, S. W., Maydick, M., Gawron, L. M., **Peterson-Burch, F. M.**, & Conley, Y. P. (2020). Symptom Science: Omics and Response to Non-Pharmacological Interventions. *Biological research for nursing*, 1099800420975205. Advance online publication. <https://doi.org/10.1177/1099800420975205>
- **Peterson-Burch, F.**, Rinderknecht, A., & Conley, Y. (2020). miRNAs Related to Age-Related Macular Degeneration: An Introduction for the Ophthalmic Nurse. *INSIGHT: The Official Journal of the American Society of Ophthalmic Registered Nurses*. 45(3):14-30.
- **Peterson-Burch FM**, Olshansky E, Abujaradeh HA, Choi JJ, Zender R, Montgomery, K., Case, A, Sorkin, D, Chaves-Gnecco, D., Libman, I., Taylor Lucas, C., Zaldivar, F. & Charron-Prochownik, D. (2018). Cultural understanding, experiences, barriers, and facilitators of healthcare providers when providing preconception counseling to adolescent Latinas with diabetes. *Research Journal of Women's Health*. 5: 1-13. <http://dx.doi.org/10.7243/2054-9865-5-2>.
- **Peterson-Burch F**, Abujaradeh H, Charache N, Fischl A, Charron-Prochownik D. (2018). Preconception Counseling for Adolescents and Young Adults with Diabetes: a Literature Review of the Past 10 Years. *Current Diabetes Reports*. 18(3):11. doi: 10.1007/s11892-018-0983-7. PMID 29450662.
- **Peterson-Burch, F.** (2018). Family Matters: The Nurse's Role in Assessing Family Health History in Ocular Disease. *Insight: The Journal of the American Society of Ophthalmic Registered Nurses*. 43(4):23-25. NIHMSID: 949874
- **Peterson-Burch F.**, Reuter-Rice K, Barr T. (2017). Rethinking Recovery: Incorporating Holistic Nursing Perspectives in Post-Stroke Care. *Holistic Nursing Practice*. 31(1):3-6. doi: 10.1097/HNP.000000000000187.

- Fischl, A., Charron-Prochownik, D., Becker, D., Herman, W.H., McEwen, L., Plesko, C.M., **Peterson-Burch, F.**, and Sereika, S. (2017). Agreement Between Self-Reports and Medical Records in the Reporting of Pregnancy Outcomes in Women with Type 1 Diabetes. *Research Journal of Women's Health*; 4(6). doi: 10.7243/2054-9865-4-6.

## Abstracts

- Abujaradeh, H., Olshansky, E. **Peterson-Burch, F.**, Montgomery, K., Sorkin, D., Zender, R., Schmitt, P. & Charron-Prochownik, D. (2017) Examining Perceptions of Communication Regarding Diabetes, Sex, Family Planning, Pregnancy, and Preconception Counseling Among Diabetic Young Latinas, Their Mothers and Healthcare Providers. *Nursing Research*, 66(2), E112-E113. [Abstract].
- Olshansky, E., **Peterson-Burch, F.**, Choi, J., Schmitt, P., Zender, R., Charron-Prochownik, D.C. (2016). Barriers and facilitators for health care providers to discuss reproductive health with Latinas diabetes mellitus. *Diabetes: The Journal of the American Diabetes Association*, 65 (1), 658-P. [Abstract].
- Olshansky, E., **Peterson-Burch, F.**, Choi, J., Schmitt, P., Zender, R. & Charron-Prochownik, D. (2016). Barriers and Facilitators for Healthcare Providers (HCP) to Discuss Reproductive Health (RH) with Adolescent Latinas with Diabetes (DM). *Diabetes*, 65, suppl. 1, A170. June.
- **Peterson-Burch, F.**, Charron-Prochownik, D., Schmitt, P., Zender, R., Choi, J. & Olshansky, E. (2016). Exploring Cultural Experiences and knowledge of a Health Professional Expert Panel on Reproductive Health among Adolescent Latinas with Diabetes. *Nursing Research*, 65(2), E106. March/April. [Abstract]

## Posters

- Charron, Prochownik, D., Abujaradeh, H., Codner, E., Downs, J., Escobar, AM, Fischl, A., Giraudo, FA, Montgomery, K., Moore, K., Olshansky, E., **Peterson-Burch, F.**, & Stotz, S. (2020). Culturally Competent Approach to Adapting a Validated Diabetes Preconception Counseling (PC) Intervention to Prevent Pregnancy-Related Complications in Adolescent and Young Adults (AYA) Females of Ethnically Diverse Populations. Presented at the Eastern Nursing Research Society (ENRS), March 26-27. Boston, MA. [Poster].
- **Peterson-Burch, F.**, Weeks, D., Gorin, M., & Conley, Y. (2019) miRNAs Related to Age-Related Macular Degeneration, Given Nuclear and Mitochondrial Genetic Susceptibility. Presented at the International Society of Nurses in Genetics (ISONG), November 7-10. San Antonio, TX [Poster].
- Charron-Prochownik, D., Stotz, S., Olshansky, E., Terry, M., Downs, J., Abujaradeh, H., **Peterson-Burch, F.**, Moore, K. (2019). Culturally Adapting a Validated Diabetes Preconception Counseling Program for Adolescents from Different Ethnic Groups: Exploring Similarities from Healthcare Providers' Perspectives. Presented at the International Society of Pediatric and Adolescent Diabetes (ISPAD), October 30-November 2, 2019. Boston, MA. [Poster].
- Charache, N., Charron-Prochownik, D., Libman, I., Abujaradeh, H., Sereika, S., **Peterson-Burch, F.** & Fischl, A. (2019). Exploring Concerns of Complications including Reproductive Health (RH) in Adolescent and Young Adult (AYA) Males with Type 1 Diabetes (T1D): Strategies for Developing an eHealth Intervention. Presented at the National Conferences on Undergraduate Research (NCUR), April 10-13. Kennesaw, GA [Poster].
- Abujaradeh, H., **Peterson-Burch, F.**, Olshansky, E. Montgomery, K., & Charron-Prochownik, D. (2018). Markup Methodology to Culturally Tailor Pre-existing Preconception Counseling Program for Latina Adolescent Girls with Diabetes and their Mothers. Presented at the American Diabetes Association, June 22-26. Orlando, FL. [Poster].
- **Peterson-Burch, F.**, Gorin, M., Weeks, D.E., & Conley, Y.P. (2017). Genetic and Viral Infection Risk Factors for Age-Related Macular Degeneration. Presented at the International Society of Nurses in Genetics (ISONG) World Congress, November 3-5. Reston, VA. [Poster].
- Charron-Prochownik, D. Abujaradeh, H., **Peterson-Burch, F.**, Montgomery, K., Sorkin, D., Zender, D., Charache, N., & Olshansky, E. (2017). Perceptions among Diabetic Adolescent Latinas and their Mothers Regarding Diabetes, Family Planning and Pregnancy: Converging Themes to Inform Preconception Counseling. Presented at the American Diabetes Association, June 22-26. San Diego, CA. [Poster].
- Abujaradeh, H., Olshansky, E. **Peterson-Burch, F.**, Montgomery, K., Sorkin, D., Zender, R., Schmitt, P. & Charron-Prochownik, D. (2017) Examining Perceptions of Communication Regarding Diabetes, Sex, Family Planning, Pregnancy, and Preconception Counseling Among Diabetic Young Latinas, Their Mothers and Healthcare Providers. Presented at the Eastern Nursing Research Society (ENRS) 29th Annual Scientific Sessions, April 5-7. Pittsburgh, PA. [Poster].
- **Peterson-Burch, F.**, Charron-Prochownik, D., Montgomery, K., Sorkin, D., Zender, R., Abujaradeh, H., Olshansky, E. (2017). Reproductive health awareness and communication in diabetic adolescent Latinas and their mothers. Presented at the Society for Behavioral Medicine, March 29-31. San Diego, CA. [Poster].
- Charache, C., **Peterson-Burch, F.**, Olshansky, E., Montgomery, K., Abujaradeh, H., Sorkin, D., Zender, R., & Charron-Prochownik, D. (2017). Perceptions and Influence of the Extended Family in Sex, Family Planning and Pregnancy Among Adolescent Latinas with Diabetes. Presented at the National Council on Undergraduate Research Conference, April 6-8. Memphis, TN. [Poster]

- Moore, K., Stotz, S., Marshall, G., Terry, M., Schmitt, P., **Peterson-Burch, F.**, and Charron-Prochownik, D, for the Stopping-GDM Study Group. (2016). Tribal Health Leaders' Recommendations for a Community-based Gestational Diabetes Prevention Counseling and Education Program for American Indian and Alaska Native Girls. Presented at the American Public Health Association, October 29-November 2. Denver, CO. [Poster]
- **Peterson-Burch, F.**, Charron-Prochownik, D., Schmitt, P., Zender, R., Choi, J. & Olshansky, E. (2016). Exploring Cultural Experiences and Knowledge of a Health Professional Expert Panel on Reproductive Health Among Adolescent Latinas with Diabetes. Presented at the Eastern Nursing Research Society (ENRS) 28th Annual Scientific Sessions. Pittsburgh, PA, April. [Poster].
- Olshansky, E., **Peterson-Burch, F.**, Choi, J., Schmitt, P., Zender, R. & Charron-Prochownik, D. (2016). Barriers and Facilitators for Healthcare Providers (HCP) to Discuss Reproductive Health (RH) with Adolescent Latinas with Diabetes (DM). Presented at the American Diabetes Association, New Orleans, LA. June 10-14. [Poster].
- Choi J., Sereika S.M., White N.H., Abramson N., Powell III B.A., Schmitt P.L., **Peterson-Burch F.**, and Charron-Prochownik D. (2015). Examining Family Planning Behavior in Adolescent Females with Type 2 Diabetes: Importance of Starting at Puberty. Presented at the 7<sup>th</sup> Annual Pediatric Nursing Conference at Children's Hospital of Pittsburgh, Pittsburgh, PA. May 6.

### Memberships

- International Society of Nurses in Genetics, 2015-present
- American Society of Ophthalmic Registered Nurses 2016-present
- Sigma Theta Tau Eta Chapter (University of Pittsburgh School of Nursing), 2016-present

### Current Studies

*miRNAs Related to Age-Related Macular Degeneration, Given Nuclear and Mitochondrial Genetic Susceptibility*  
 May 2018-present  
 Co-Principle Investigators: Frances Peterson-Burch and Yvette Conley

The purpose of this dissertation study is to explore relationships between miR-hsa-590-3p and miR-hsa-146a-3p and age-related macular degeneration, given genetic susceptibility. Our case-control study will examine these miRNAs in a family cohort of AMD-affected and age-matched unaffected participants. Sample selection will be based on risk nuclear SNPs [CFH (rs1061170) and ARMS2 (rs10490924)]. In addition, this study considers associations between expressive quantitative trait loci (eQTLs) of genes that code for the aforementioned miRNAs and AMD using publicly available data from the International Age-related Macular Degeneration Genomics Consortium. This dissertation work is currently in the analysis phase.

*Persistent Viral Infection as a Risk Factor of Age Related Macular Degeneration*  
 October 2016-present  
 Co-Principle Investigators: Frances Peterson-Burch and Yvette Conley.

This study was conducted at the Conley lab in the University of Pittsburgh School of Nursing and used antigen screenings to determine whether individuals with age related macular degeneration have a higher rate of herpes simplex virus-1, while considering genetic susceptibility. This observational study was the first of its kind to explore viral associations with age related macular condition while considering genetic contributions. A manuscript with the findings is being developed.

*Family Health History Collection, Decision-Making, and Genetic Information Seeking Practices.*  
 February 2016-December 2017  
 Co-Principal Investigators: Frances Peterson-Burch & Shelley Layman.

This study was conducted at the West Virginia University Department of Emergency Medicine, West Virginia University Student Health, and West Virginia University Hospital Suncrest Urgent Care Center. This study seeks to explore family health history practices with related healthcare decision-making behaviors, barriers and facilitators to behavioral change, perceived risk of health outcomes based on family health history, public understanding of environmental influence on genetics, genetic fatalistic attitudes, and preferred sources of genetic information. A manuscript with the findings is being developed.

## **Community Presentations**

- 2015 December—Coordinated and performed a DNA extraction with 8<sup>th</sup> grade students at Frankfort Middle School in Short Gap, WV in the class of Mr. William Johnson
- 2015 November—Presented “The Genetics of Age-Related Macular Degeneration” for sophomore level nursing students at the University of Pittsburgh in the class of Sue Wesmiller PhD RN.
- 2015 July— Coordinated and taught a public stroke awareness class in collaboration with the West Virginia University Stroke Center for residents of the Villages at Heritage Point retirement community in Morgantown, WV
- 2015 May—Coordinated and performed a DNA extraction with 3<sup>rd</sup> grade students at Green Central Elementary School in Waynesburg, PA in the class of Miss Nichole Trollman
- 2015 February—Coordinated and taught a public stroke awareness class in collaboration with the West Virginia University Stroke Center for older adults for the Osher Lifelong Learning Institute (OLLI) at West Virginia University