# CURRICULUM VITAE BIOGRAPHICAL

|  |  |
| --- | --- |
| Name: Jessica A. Davis, PhD, RN, CCRN, IBCLC | Business Address: 3000 Children’s Hospital Office Building  Pittsburgh, PA 15213 |
| Email: [jad312@pitt.edu](mailto:jad312@pitt.edu) | Business Phone: 602/616-5312 |
| Web: [https://jad312.github.io/](https://www.google.com/url?sa=E&source=gmail&q=https%3A//jad312.github.io/) |  |

**EDUCATION and TRAINING**

**UNDERGRADUATE**

|  |  |  |  |
| --- | --- | --- | --- |
| *Dates Attended* | *Name and Location of Institution* | *Degree Received and Major Subject* | *Year* |
| August 2007-May 2011 | Northern Arizona University, Flagstaff, AZ | Bachelor of Science, Nursing | 2011 |

**GRADUATE**

|  |  |  |  |
| --- | --- | --- | --- |
| *Dates Attended* | *Name and Location of Institution* | *Degree Received and Major Subject* | *Year* |
| August 2019-  August 2023 | University of Pittsburgh, Pittsburgh, PA | Doctor of Philosophy, Nursing Science, Minor in Nurse Education | 2023 |

**POSTGRADUATE**

|  |  |  |  |
| --- | --- | --- | --- |
| *Dates Attended* | *Name and Location of Institution* | *Degree Received and Major Subject* | *Year* |
| June 2023 – January 2025 | University of Pittsburgh School of Medicine, Department of Pediatrics, HRSA NRSA T32 Primary Care Research Fellowship | Postdoctoral Scholar | 2023 |

**APPOINTMENTS and POSITIONS**

# ACADEMIC

|  |  |  |
| --- | --- | --- |
| *Years Inclusive* | *Name and Location of Institution or Organization* | *Rank/Title* |
| April 2024-  December 2024 | Environmental Health Research Institute for Nurse and Clinician Scientists  United States | Fellow |
| February 2024-  October 2024 | SDOH & Place Fellowship United States | Fellow |
| August 2021-  June 23rd, 2023 | University of Pittsburgh School of Nursing, NRSA T32-Targeted Research and Academic Training Program for Nurses in Genomics  Pittsburgh, PA | Predoctoral Fellow |
| August 2020-  December 2020 | Jewish Health Care Foundation, Salk Health Activist Fellowship  Pennsylvania, United States | Fellow |
| January 2020-  December 2021 | University of Pittsburgh, PREPARE Study (PI: Demirci)  Pittsburgh, PA | Graduate Student Researcher |
| August 2019-  August 2023 | ARCS Foundation, Pittsburgh Chapter Pittsburgh, PA | Predoctoral Scholar |

**NON-ACADEMIC**

|  |  |  |
| --- | --- | --- |
| *Years Inclusive* | *Name and Location of Institution or Organization* | *Rank/Title* |

|  |  |  |
| --- | --- | --- |
| 2025-Present | Healthy Start, Inc. Pittsburgh | Clinical Partnership Liaison |
| 2018-2019 | UPMC Children’s Hospital of Pittsburgh | Lactation Consultant |
| 2017-2018 | UPMC Children’s Hospital of Pittsburgh | Fellow, Neonatal Nurse Fellowship |
| 2015-2018; 2022-2024 | UPMC Children’s Hospital of Pittsburgh | Senior Professional Staff Nurse II, Cardiac Intensive Care Unit |
| 2013-2015 | UPMC Magee Women’s Hospital, Woman Care Birth Center, Obstetric Critical Care | Professional Staff Nurse |
| 2013-2014 | The Midwife Center for Birth and Women’s Health | RN Birth Assistant |
| 2011-2013 | UPMC Children’s Hospital of Pittsburgh | Staff Nurse, Neonatal Intensive Care Unit |
| 2010 | UPMC Children’s Hospital of Pittsburgh | Student Nurse Intern, Neonatal Intensive Care |

**CERTIFICATION and LICENSURE MEDICAL or OTHER PROFESSIONAL LICENSURE:**

|  |  |
| --- | --- |
| Licensing Board/State | Year |
| Registered Nurse, Pennsylvania Department of State, Pennsylvania | 2011-  Present |

# SPECIALTY CERTIFICATION:

|  |  |
| --- | --- |
| Certifying Board | Year |

|  |  |
| --- | --- |
| Board Certified Lactation Consultant (IBCLC), International Board of Lactation Consultant Examiners, Pennsylvania | 2018-  Present |
| Certified Critical Care Nurse, American Association of Critical Care Nurses, Pennsylvania | 2016-  Present |

**MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES**

* Cardiac Neurodevelopmental Outcome Collaborative, Member - Cardiac Newborn Neuroprotective Network Special Interest Group, Co-Lead - Breastfeeding and CHD Special Interest Group, 2023-Present
* Pediatric Cardiac Intensive Care Society, 2022-Present
* NeoHeart Society, 2020-Present
* Sigma Theta Tau International Nursing Honor Society, 2020-Present
* International Society of Nurses in Genetics (ISONG), Education Committee (2021), Congress Committee (2020), 2019-Present
* United States Lactation Consultant Association (USLCA), 2019-Present
* Peer Leader, La Leche League, 2018-Present
* International Lactation Consultant Association (ILCA), 2018-2021
* Northeast Pediatric Cardiology Nurses Association (NPCNA), 2017-2021
* National Association for Neonatal Nurses (NANN), 2017-2021
* American Academy of Critical Care Nurses (AACN), 2016-2018
* American College of Nurse Midwives (ACNM), Student Liaison (2014), 2013-2014
* Association of Women’s Health, Obstetrical and Neonatal Nurses (AWHONN), 2011- 2020

# HONORS

* Fellow, Environmental Health Research Institute for Nurse and Clinician Scientists, Castner Incorporated, 2024
* Fellow, SDOH & Place Fellowship, University of Illinois Champagne-Urbana, 2024
* Invited Student Presenter, Rising Stars of Research and Scholarship, 32nd International Congress, Sigma Theta Tau International, 2021
* Arcs Scholar, Pittsburgh Chapter, 2019-2021
* Daisy Award Nominee (nursing service award), UPMC Children’s Hospital of Pittsburgh, 2018
* Dean’s List, College of Health and Human Services, Northern Arizona University, 2007- 2011

# PUBLICATIONS

**1. ORIGINAL PEER-REVIEWED ARTICLES**

1. Davis, J.A., Seiler, E., Ghassemzadeh, R., Baust, T., Firek, B., Quigley, L.L., Kreutzer, J., Ren, D., Morowitz, M.J., and Martin, J.M. (In press). Prevalence and Patterns of Antibiotic Administration in Neonates with Critical Congenital Heart Defects. *Journal of Perinatal and Neonatal Nursing*.
2. Elgersma K.M., Engel M.L., Ramel S.E., Davis J.A., McKechnie A.C., Pfister K.M. (2024) Human milk, breastfeeding, and early neurodevelopmental outcomes for infants with critical CHD. *Cardiology in the Young*. Published online 2024:1-9. doi:10.1017/S1047951124025228
3. Davis, J.A., Baumgartel, K., Baust, T., Conley, Y.P., Ren, D., Morowitz, M.J., and Demirci, J.R. (2024) Neonatal Diet Type and Associations with Adverse Feeding Outcomes Among Neonates with Critical Congenital Heart Defects. *Journal of Perinatal and Neonatal Nursing*. Published online ahead of print on January 18, 2024. | DOI: 10.1097/JPN.0000000000000790
4. Ray, M., Wallace, M.K., Grayson, S.C., Cummings, M.H., Davis, J.A., Scott, J.L., Belcher, S.M., Davis, T., Conley, Y.P. (2023) Epigenomic links between social determinants of health and symptoms: A scoping review. *Biological Research for Nursing*.
5. Davis, J.A., Ho, R., P, E.K., Kim, A., Lin, J.H., & Morowitz, M.J. (2022) Early empiric antibiotic treatment among neonates with1 congenital heart defects: A brief report of an integrative review. *Critical Care Explorations*
6. Davis, J.A., Glasser, M., Clemens, M., Eichhorn, B., Vats, K., & Demirci, J.R. (2022) Antenatal milk expression and breastfeeding outcomes for mothers of infants with surgical defects: A case series. *Journal of Perinatal and Neonatal Nursing*
7. Davis, J.A., Glasser, M., Scott, P., Spatz, D.L., & Demirci, J.R. (2022) First feed type is associated with birth/lactating parent’s2 own milk use during NICU stay among infants who require surgery. *Advances in Neonatal Care: Official Journal of the National Association of Neonatal Nurses*, doi: 10.1097/ANC.0000000000000981. Advance online publication.
8. Demirci, J.R., Davis, J.A., Glasser, M., and Brozanski, B. (2021) Prevalence and patterns of gestational parent’s own milk feeds among infants3 with major congenital surgical anomalies in the NICU. *Journal of Perinatology*.
9. Davis, J.A., Baumgartel, K., Giangrasso, V., Morowitz, M.J., & Demirci, J.R. (2020) The role of human milk in decreasing necrotizing enterocolitis through modulation4 of the infant gut microbiome: A scoping review. *Journal of Human Lactation*. doi:10.1177/0890334420950260
10. Davis, J & Spatz DL (2019) Human milk and infants with congenital heart disease: A summary of current literature supporting5 the provision of human milk and breastfeeding. *Advances in Neonatal6 Care*, 19(3): 212-218. doi: 10.1097/ANC.0000000000000582

# OTHER NON-PEER REVIEWED PUBLICATIONS

* 1. Davis, J.A. & Demirci, JR (2021) A vision for the future of nursing leadership in the lactation field. *Journal of Perinatal and Neonatal Nursing*.
  2. Davis, J.A. (2021) Beyond the NICU. *USLCA Amplify*. Op-Ed.

# BOOKS, BOOK CHAPTERS AND MONOGRAPHS

* 1. Jiuann-Huey, I. L; Judy Squire, J; Malek, M; Davis, J; Munoz, R. (2019) Gastrointestinal Complications: Necrotizing Enterocolitis, Malrotation, Protein Losing Enteropathy and Nasogastric Tube syndrome. In *Critical Care of Children7 with Heart Disease: Basic Medical and Surgical Concepts*

1. **PUBLISHED ABSTRACTS (in Scientific Journals) Poster Presentations**
   1. **Davis, J.A**., Baumgartel, K., Conley, Y.P., Ren, D., Morowitz, M.J., and Demirci, J.R. (2023) Neonatal Diet Type and Associations with Adverse Feeding Outcomes Among Neonates with Critical Congenital Heart Defects. *World Congress for Pediatric Cardiology and Cardiac Surgery.* Washington, D.C.
   2. **Davis, J.A.,** Glasser, M., Clemens, M., Eichhorn, B., Vats, K., & Demirci, J.R. (2021) Antenatal milk expression and breastfeeding outcomes for mothers of infants with surgical defects: A case series. *National Association of Neonatal Nurses 2021 Conference*. Virtual Poster Presentation.
   3. **Davis, J.A.,** Glasser, M., Clemens, M., Eichhorn, B., Vats, K., & Demirci, J.R. (2021) Antenatal milk expression and breastfeeding outcomes for mothers of infants with surgical defects: A feasibility study. *Sigma Theta Tau International 2021 Congress*. Virtual Poster Presentation.

**Podium Presentations**

* 1. **Davis, J.A**., Baumgartel, K., Conley, Y.P., Firek, B., Mazzacco, S., Morowitz, M.J., Ren, D., Seifert, N., and Demirci, J.R. (2023) Neonatal Diet Type and Microbiome Composition in Neonates with Critical Congenital Heart Defects. *International Society of Nurses in Genetics 2023 Congress.* Providence, RI.
  2. **Davis, J.A**., Baust, T, and Morowitz, M.J. (2023) Prevalence and Patterns of Antibiotic Treatment in Neonates with Critical Congenital Heart Defects. *Association for European Paediatric and Congenital Cardiology Annual Meeting.* Dublin, Ireland

1. **ABSTRACTS (not published in Scientific Journals) Poster Presentations:**
   1. **Davis, J.A.,** Ghassemzadeh, R., Baust, T., Firek, B., Quigley, L., Kreutzer, J., Morowitz, M.J., & Martin, J.M. (2024) A Descriptive Survey of Antibiotic Prescribing Practices and Beliefs Among Pediatric Cardiac Clinicians. *Pediatric Cardiac Intensive Care Society Annual Conference 2024.*
   2. Elgersma, K.M., **Davis, J.A.,** Mohan O’Neill, S., Overpeck, S.R., Desai, H., Gauntt, J.,

Godsil, J.L., Gray, J.K., Harris Dixon, B.D., Hodgson, S.W., Marks, C.J., Mekler, E.R.,

Momin, N.H., Morris, K.M., Muller, K.M., Negrin, K.A., Scheiderer, V.L., Slater, N.L., Butler, S.C., & Peterson, J.K. (2024) Breastfeeding Infants with Critical Congenital Heart Disease: A Science Advisory and Call to Action from the Cardiac Newborn Neuroprotective Network. *Cardiac Neurodevelopmental Outcome Collaborative 2024 Annual Meeting.*

* 1. **Davis, J.A.,** Elgersma, K.M, Klein, J., Ray, M., Scott, J., & Levine, M. (2024) Indicators of health-related social needs as predictors for birth and lactation outcomes among neonates with critical congenital heart defects: A preliminary analysis. *Pediatric Academic Societies Meeting 2024*.
  2. **Davis, J.A.** Human milk influences the bacterial composition of the premature infant gut microbiome: A scoping review. *2020 ISONG International Congress*, 13-15 November 2020. Virtual Poster Presentation

**Podium/Oral Presentation:**

* 1. Elgersma, K. M., Engel, M. L., Ramel, S. E., **Davis, J. A.**, McKechnie, A. C., Pfister, K.

M. (2024, April 14). Human milk, breastfeeding, and early neurodevelopmental outcomes for infants with critical congenital heart disease. [Oral presentation]. Nursing Research Day 2024, University of Minnesota, Minneapolis, Minnesota, United States.

* 1. Ray, M., **Davis, J.A.,** & Scott, J. History of racism and oppressive language in omics research. *International Society of Nurses in Genetics (ISONG) 2021 Conference,* November 5-7, 2021. Synchronous virtual oral presentation
  2. **Davis, J.A.** Supporting lactation in the setting of a congenital heart defect. *USLCA Live Webinars,* August 18th, 2021. Synchronous Virtual Presentation
  3. **Davis, J.A**., Glasser, M., & Demirci, J.R. First feed composition predicts formula use at NICU discharge among surgical infants. *Pennsylvania Health Care Mosaic Conference*, 1-5 March 2021. Virtual Rapid-Fire Oral Presentation.
  4. **Davis, J.A**., Baust, T, & Domnina, Y. Improvement of breastfeeding outcomes for neonates and infants with congenital heart disease. *Nurses Week Conference*, May 2019. Poster Presentation
  5. **Davis, J.A.** Postpartum mood disorders in the setting of the Neonatal Intensive Care Unit. *At the Bedside Nursing Fellows Conference*, March 2018. Podium Presentation
  6. **Davis, J.A.** Breastfeeding the infant with congenital heart disease: A Certified Breastfeeding Counselor’s approach. *Northeast Pediatric Cardiology Nurses Association Annual Conference,* October 13-15, 2017. Podium Presentation

# RESEARCH

**Current Grant Support:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grant Number | Grant Title | Role in Project | Years Inclusive | Source Amount |
| N/A | Indicators of Health- Related Social Needs and Birth and Lactation Outcomes in Neonates with Congenital Heart Defects | Principal Investigator | 02/16/2024-  12/31/3024 | SDOH & Place Fellowship  $5,000 |
| T32HP22240 | NRSA T32 Primary Care Research Training Fellowship – Health Related Social Needs and Research Support for Mothers of Infants with Congenital Heart Defects | Postdoctoral Scholar | 6/23/2023-  6/22/2025 | Health Resources and Service Administration |
| UL1 TR001866 | Neonatal Diet Type and Associations with Adverse Feeding Outcomes and Gut  Microbiome Composition | Principal1 Investigator | 07/01/2022-  06/30/2024 | Heilbrunn Nurse Scholar Research Award, Rockefeller  University |

|  |  |
| --- | --- |
| in Neonates with Critical  Congenital Heart Defects | $24,000 |

**Prior Grant Support:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grant Number | Grant Title | Role in Project | Years Inclusive | Source Amount |
| N/A | Neonatal Diet Type and Associations with Adverse Feeding Outcomes and Gut Microbiome Composition in Neonates with Critical Congenital Heart Defects | Principal Investigator | 06/2022-05/2023 | Sigma-  Rosemary Berkel Crisp Research Award  $5,000 |
| N/A | The Impact of Neonatal Diet Type on Adverse Feeding Outcomes and Gut Microbiome Composition in Neonates with Critical Congenital Heart Defects | Principal Investigator | 11/2021-08/2023 | Margaret E. Wilkes Scholarship, University of Pittsburgh School of Nursing Internal Awards  $7,500 |
| T32NR009759 | T32 Targeted Research and Academic Training Program for Nurses in Genomics Award | Predoctoral Trainee | 8/2021-6/2023 | National Institutes of Health, National Institute of Nursing Research |
| N/A | Summer Institute Scholarship | Trainee | 07/2021 | University of Washington Summer Institute in Statistics and Modeling in Infectious Disease  $900 |
| N/A | The Impact of Neonatal | Principal | 6/2021-6/2022 | Sigma Theta Tau |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Diet Type on Adverse Feeding Outcomes and Gut Microbiome Composition in Neonates with Critical Congenital  Heart Defects | Investigator |  | Eta Chapter Research Award  $1,000 |
| N/A | The Impact of Neonatal Diet Type on Adverse Feeding Outcomes and Gut Microbiome Composition in Neonates with Critical Congenital Heart Defects | N/A | 8/2019-5/2022 | ARCS  Foundation Scholarship, Pittsburgh Chapter $15,000 |
| N/A | The Impact of Neonatal Diet Type on Adverse Feeding Outcomes and Gut Microbiome Composition in Neonates with Critical Congenital Heart Defects | Principal Investigator | 8/2019-5/2020 | Corrine M. Barnes Scholarship, University of Pittsburgh School of Nursing  $20,500 |
| N/A | Breastfeeding Support and Education for Families and Staff of the Heart and Vascular Institute of Children’s Hospital of Pittsburgh of  UPMC | Principal Investigator | 1/2018-12/2018 | Beckwith Frontline Innovation Grant, Beckwith Foundation  $10,000 |

**LIST of CURRENT RESEARCH INTERESTS**

**Overall Research Goal:**

* + - To achieve life-long positive outcomes for children born with congenital heart defects (CHD) through health equity and community-based research methodologies.

**Specific Research Interests:**

* + - Human Milk and Breastfeeding: Investigating the impact of human milk and breastfeeding on the health and well-being of infants with CHD, including their protective effects against adverse outcomes.
    - Systemic Inequities: Identifying and addressing systemic inequities in clinical practices that contribute to adverse health outcomes in infants with CHD, particularly those related to lactation and nutrition.
    - Human-centered design approaches: Utilizing community-based participatory action and qualitative research methodologies to understand parent perceptions of infant feeding and maternal health research in the context of a fetal/infant CHD diagnosis.
    - Adaptive Intervention Design: Developing and testing adaptive support interventions to address maternal distress and lactation attrition in mothers of infants with CHD.
    - Dissemination and Implementation Science: Applying implementation science frameworks and approaches to promote the successful adoption and integration of evidence-based interventions and practices related to infant feeding and maternal health in CHD care.

# PROFESSIONAL ACTIVITIES

**TEACHING**

**Undergraduate Student Teaching:**

|  |  |
| --- | --- |
| Dates | Role, Title of teaching session(s), type of learner, location |
| January 2022-  April 2022 | Clinical instructor, NUR 1042-Nursing Care of Children and Families Undergraduate BSN students  University of Pittsburgh School of Nursing Pittsburgh, PA |
| August 2021-  December 2021 | Student didactic instructor, NUR 1042-Nursing Care of Children and Families Undergraduate BSN students  University of Pittsburgh School of Nursing Pittsburgh, PA |
| May 2020-  June 2020 | Teaching Assistant (Online), NUR 0087- Pharmacology and Therapeutics Across the Lifespan  Undergraduate BSN students  University of Pittsburgh School of Nursing Pittsburgh, PA |

|  |  |
| --- | --- |
| August 2019-  December 2019 | Clinical Instructor, NUR 1050- Nursing Care of Mothers, Newborns, and Families Undergraduate BSN students  University of Pittsburgh School of Nursing  Pittsburgh, PA |

**Graduate Student Teaching:**

|  |  |
| --- | --- |
| Dates | Role, Title of teaching session(s), type of learner, location |
| June 2022 | Guest Lecturer, Management of the Fetus and Neonate in the Dyad - Breastfeeding Assessment and Management of Common Problems  Midwifery DNP students  University of Pittsburgh School of Nursing Pittsburgh, PA |

**Fellow Teaching:**

|  |  |
| --- | --- |
| Dates | Role, Title of teaching session(s), type of learner, location |
| November 2023 | Guest Lecturer, Effects of Maternal Medications on Breastfeeding, Particularly Effects of Labor Analgesia and Postpartum Analgesia  Obstetric anesthesia fellows  University of Pittsburgh School of Medicine Pittsburgh, PA |

**Patient and Clinician Teaching:**

|  |  |
| --- | --- |
| Dates | Role, Title of teaching session(s), type of learner, location |

|  |  |
| --- | --- |
| November 2023 | Co-presenter, International Association for Breastfeeding and Lactation Education (IABLE) Single-day Conference: Congenital Heart Defects and Lactation and Breastfeeding  Physicians, registered nurses, advanced practice providers, occupational therapists, physical therapist, speech and language pathologists |
| March 2024 | Instructor, Cardiac Skills Fair - Resources and technologies to support lactation Registered nurses  UPMC Children's Hospital of Pittsburgh Pittsburgh, PA |
| March 2021 | Co-presenter, CHP Healing Hearts Virtual Program - Feeding with Congenital Heart Disease 101  Parents whose fetus was prenatally diagnosed with a congenital heart defect UPMC Children's Hospital of Pittsburgh  Pittsburgh, PA |

**Mentoring:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dates | My Role | Trainee/Student & Where Training Occurred | Research Program | Funding/Awards |
| May 2022-  May 2023 | Primary Mentor | A. Kim | Undergraduate Research Mentorship Program | n/a |
| August 2022-May  2023 | Primary Mentor | R. Ho | Undergraduate Research Mentorship Program | n/a |

# SERVICE

# Editorial Board

# *Journal of Perinatal and Neonatal Nursing*

# Member (January 2024-present)

# Editor – Breastfeeding Column (January 2025-present)

# Peer Reviewer

# *Advances in Neonatal Nursing*

# *Breastfeeding Medicine*

# *Cardiology in the Young*

# *Journal of Perinatal and Neonatal Nursing*

# *Journal of Neonatal Nursing*

**University Involvement**

* + - **University Committees**
      * University of Pittsburgh
        + Graduate and Professional Student Government (2021-2022)
    - **School Committees**
      * **University of Pittsburgh** School of Nursing
        + Mentoring Committee, Eta Chapter (2021-2022)
        + Graduate Student Nurses Organization (GNSO)

President (elected) (2021-2022)

Member (2019-2023)

**Other Professional Activities**

* + - **Allegheny County Health Department**
      * Case Review Team, Fetal and Infant Mortality Review (2024-Present)
    - **Mid-Atlantic Mother's Milk Bank**
      * Board of Directors (2020-Present)
        + Board Governance and Development Committee

Diversity, Equity, and Inclusion Committee

* + - **Western Pennsylvania La Leche League**
      * Associate Professional Liaison (2020-2022)
    - **NEC Society**
      * Cardiac Necrotizing Enterocolitis (NEC) Working Group (2019-2021)