

LAREN (RIESCHE) NARAPAREDDY, PhD, RN

Assistant Professor
Nell Hodgson Woodruff School of Nursing
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EDUCATION

2017	PhD, Nursing Science	University of Illinois at Chicago, College of Nursing, Chicago, IL
2012	Master of Science, Nursing	DePaul University School of Nursing, Chicago, IL
2010	Chiropractic Health (non-degree)	National University of Health Sciences, Lombard, IL
2008	Bachelor of Science, Kinesiology Minor, Chemistry	University of Illinois, College of Applied Health Sciences, Urbana-Champaign, IL

ADDITIONAL TRAINING

In Progress	Certificate in Reproductive Endocrinology	American Society of Reproductive Medicine and Infertility
Summer 2016	Human Placenta Workshop	Queens University, Kingston, Ontario, Canada
Summer 2015	Summer Genetics Institute	National Institute of Nursing Research (NIH) Bethesda, MD

LICENSES & CERTIFICATIONS

In progress	Certification in Reproductive Endocrinology and Infertility	
2019-present	Registered Nurse (GA)	RN285572
2013-present	Registered Nurse (IL)	041.408285
2010-present	Basic Cardiac Life Support- Healthcare Provider	
2010	Neonatal Resuscitation Program Certification	

HONORS & AWARDS

2017	NIH Early Career Investigator Travel Award	International Federation of Placenta Associations
2017	Travel Award, Graduate Student Nurses Assn.	University of Illinois, Chicago, IL
2014	Rosemary Camilleri Scholarship	University of Illinois, Chicago, IL
2012	Enoch Frederick Scholarship	DePaul University, Chicago, IL
2012	Grace Peterson Scholarship	DePaul University, Chicago, IL
2009	President's Excellence Scholarship	National University of Health Science, Lombard, IL
2008	High Honors Graduate	College of Applied Health Science, University of Illinois, Urbana-Champaign, IL
2004-2008	Dean's List	University of Illinois, Urbana- Champaign, IL
2004-2008	Minority Achievement Award	University of Illinois, Urbana-Champaign, IL

PROFESSIONAL EXPERIENCE

08/2019- Present	Assistant Professor	Emory University, Nell Hodgson Woodruff
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08/2017-07/2019	Postdoctoral Fellow	School of Nursing, Atlanta, GA University of Pennsylvania School of Nursing Philadelphia, PA
08/2014-05/2017	Predoctoral Fellow	University of Illinois at Chicago, College of Nursing, Chicago, IL
05/2015-07/2017	Graduate Research Assistant	University of Illinois at Chicago, College of Nursing, Chicago, IL
08/2014-05/2015	Research Project Specialist	University of Illinois at Chicago, College of Nursing, Chicago, IL
01/2013-11/2013	Registered Nurse	Northwestern Memorial Health Care, Neonatal Intensive Care Unit, Prentice Women's Hospital, Chicago, IL

SCHOLARSHIP: GRANTS & OTHER FUNDING

Research Grants Under Review

Research Grants Funded by the National Institutes of Health (NIH)

Placental Epigenetic Profiles and Maternal Depression/Anxiety in Pregnancies Conceived through Assisted Reproductive Technologies (Narapareddy)

National Center for Advancing Translational Sciences through Georgia Clinical & Translational Science Awards

PI (5KL2TR002381-04)

Total Costs: \$147,667

06/01/2020-06/30/2022

Metabolic Pathways to Fatigue, Depression and Anxiety in Black Women with Polycystic Ovary Syndrome and Hypertension (Narapareddy)

National Institute of Nursing Research through Nell Hodgson Woodruff School of Nursing Center for the Study of Symptom Science, Metabolomics and Multiple Chronic Conditions (P30)

Pilot PI (Center PI: Song; 5P30NR018090-03)

Total Costs: \$155,990.64

06/01/2020-06/30/2022

Research Grants Funded by other agencies

The Effect of Assisted Reproductive Technologies on Placental Epigenetics and Postnatal Outcomes (Riesche)

Funded by Robert Wood Johnson Foundation (74658)

Future of Nursing Scholar Postdoctoral Award

PI, 100% Effort

Total Costs: \$50,000

07/01/2017 - 06/30/2019

Maternal Energetics, Placental Epigenetics, and Developmental Programming (Riesche)

Funded by Provost Diess Graduate Research Award, University of Illinois College of Nursing, Chicago IL
PI

Total Costs: \$1,500
11/30/2016 - 05/15/2017

Educational, Training, or Program Grants Funded

Research on Vulnerable Women, Children and Families (Medoff-Cooper)

Funded by National Institutes of Health, National Institute of Nursing Research (5T32NR007100-19)

Institutional National Research Service Award

Postdoctoral Trainee, 100% Effort

07/01/2018 - 06/30/2019

Bridges to the Doctorate for Nursing Students (Kim)

Funded by National Institutes of Health, National Institute of General Medical Sciences (R25GM067590-09)

University of Illinois College of Nursing, Chicago IL

Predoctoral Fellow, 100% Effort

Total Costs: \$10,000

09/01/2011 - 09/01/2013

Future of Nursing Scholars Program (Scott)

Funded by Robert Wood Johnson Foundation

University of Illinois College of Nursing, Chicago IL

Predoctoral Scholar, 100% Effort

Total Costs: \$75,000

08/24/2014 – 05/15/2017

New Careers in Nursing Scholar Program (Lee)

Funded by Robert Wood Johnson Foundation

DePaul University, Chicago IL

Master of Science in Nursing Scholar, 100% Effort

01/15/2010 - 12/20/2012

SCHOLARSHIP: PUBLICATIONS (data-based denoted with *, senior or first author with +, student or corresponding authors underlined)

Peer-Reviewed Publications – Published

*Vrooman LA, Rhon-Calderon EA, Chao, OY, Nguyen DK, **Narapareddy L**, Dahiya AK, Putt ME, Schultz RM, and Bartolomei MS. (2020). Assisted reproductive technologies induce temporally specific placental defects and the preeclampsia risk marker sFLT1 in mouse. *Development*. doi: 10.1242/dev.186551

+ (co-first) Narapareddy BR, **Narapareddy L**, Lin A, Wigh S, Nanavati J, Dougherty J, Nowrangi M, and Roy D. (2020). Treatment of depression after traumatic brain injury: A systematic review focused on pharmacological and neuromodulatory interventions. *Psychosomatics*. doi: 10.1016/j.psych.2020.04.012. Epub 2020 Apr 26. PMID: 32660873.

*+**Narapareddy L**, Wildman DE, Armstrong DL, Weckle A., Bell AF, Tardif SD, Ross CN, Patil CL, and Rutherford JN. (2020). Maternal weight affects placental DNA methylation of genes involved in metabolic pathways in the common marmoset monkey (*Callithrix jacchus*). *American Journal of Primatology*. doi: 10.1002/ajp.23101

*Kim EG, Lee YM, and **Riesche L.** Factors Affecting Depression in High School Students with Chronic Illness: A Nationwide Cross-Sectional Study in South Korea. (2020). *Archives of Psychiatric Nursing*. (in press)

*+Kim EG, Park SK, Lee, YM, Hyun MY, and **Narapareddy L.** (2020). Factors Associated with Maintenance of Smoking Cessation in Adolescents after Implementation of Tobacco Pricing Policy in South Korea: Evidence from the 11th Youth Health Behavior Survey. *Research in Nursing & Health*. doi: 10.1002/nur.21996

*Mews P., Egervari G, Nativio R, Sidoli S, Donahue G, Lombroso SI, AlexanderDC, **Riesche SL**, Heller EA, Nestler EJ, Garcia BA, and Berger SL. (2019). Alcohol metabolism contributes to brain histone acetylation. *Nature*. doi: 10.1038/s41586-019-1700-7.

Rhon-Calderon EA, **Riesche L.**, Vrooman L., and Bartolomei MS. (2019). The effects of assisted reproductive technologies on genomic imprinting in the placenta. *Placenta*. doi.org/10.1016/j.placenta.2019.02.013

+**Riesche L.**, and Bartolomei MS. (2019). Assisted reproductive technologies and the placenta: Clinical, morphological and molecular outcomes. *Seminars in Reproductive Medicine*. doi:10.1055/s-0038-1676640

*Lee YM, **Riesche L.**, and Lee, H. (2018). Parental HPV knowledge and perceptions of HPV vaccines among Korean American parents. *Applied Nursing Research*, 44, 54–59. <https://doi.org/10.1016/J.APNR.2018.09.008>

Riesche L., Tardif SD, Ross CN, deMartelly VA, Ziegler T., and Rutherford JN. (2018). The common marmoset monkey: Avenues for exploring prenatal, placental and postnatal mechanisms in developmental programming of pediatric obesity. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*. doi: 10.1152/ajpregu.00164.2017

*Fritschi C., Park H, Richardson A., Park C., Collins EG, Mermelstein R, **Riesche L.**, and Quinn L. (2016). Association between daily time spent in sedentary behavior and duration of hyperglycemia in type 2 diabetes. *Biological Research for Nursing*. doi: 10.1177/1099800415600065

*Lee, Y., Florez, E., Tariman, J., McCarter, S., and **Riesche, L.** (2015). Factors related to sexual behaviors and sexual education programs for Asian-American adolescents. *Journal of Applied Nursing Research*, 28(3), 222-228. doi: 10.1016/j.apnr.2015.04.015

Peer-Reviewed Publications – Accepted

Peer-Reviewed Publications – Submitted/Under review

*+ **Narapareddy, L.**, Rhon-Calderon, E.A., Vrooman, L.A., Baeza, J., Nguyen, D.K., Lan, Y., Garcia, B.A., Schultz, R.M., and Bartolomei, M.S. Sex-specific effects of *in vitro* fertilization on adult metabolic phenotypes and hepatic transcriptomic and proteomic pathways in mouse. Under Review. bioRxiv preprint doi: <https://doi.org/10.1101/2020.09.23.309989>

SCHOLARSHIP: PRESENTATIONS (invited presentations denoted with #, podium presentations denoted with ^)

International Presentations

Rutherford JN, de Martelly, V., Ross C, **Riesche L.**, Ziegler T., Tardif S. (2018). From start to end: Linking maternal early life characteristics to placental structure and perinatal mortality. International Federation of Placenta Associations Annual Meeting. Tokyo, Japan. (poster).

^Vrooman L., Chao O., **Riesche L.**, and Bartolomei MS. (2018). Abnormal placental development in a mouse model of assisted reproductive technologies. International Federation of Placenta Associations Annual Meeting. Tokyo, Japan. (podium).

Riesche L., Wildman D., Armstrong D., Tardif S., Ross C., and Rutherford JN. (2017). Placental DNA methylation in the marmoset monkey: Maternal weight affects genes involved in metabolic pathways. International Federation of Placenta Associations Annual Meeting. Manchester, England, UK. (poster).

Rutherford JN, Ziegler T., Tardif S., Ross C., Colon DL, Abrams J., Sills A., and **Riesche L.** (2017). Insulin it to win it: Patterns, causes, and consequences of insulin production during the marmoset monkey pregnancy. International Federation of Placenta Associations Annual Meeting. Manchester, England, UK. (poster).

National Presentations

^**Riesche L.**, Rhon-Calderone EA, Vrooman, LA, and Bartolomei, MS. (2019) Altered metabolic outcomes in IVF-conceived offspring and abnormal placental epigenetic profiles. Natural and Assisted Reproduction: Science and Outcomes Symposium. Philadelphia, PA, USA. (podium)

Riesche L., Rhon-Calderone, EA, Vrooman, LA, and Bartolomei MS. (2019) Altered metabolic outcomes and reproductive epigenetic profiles in IVF-conceived offspring are associated with abnormal placental epigenetic profiles. National Centers for Translational Research in Reproduction and Infertility Annual Meeting. Bethesda, MD, USA. (poster).

Riesche L., Ziegler T., Tardif S, Ross C., and Rutherford JN. (2016). Maternal insulin and placental growth in the common marmoset monkey. International Federation of Placenta Associations Annual Meeting. Portland, OR (poster).

Rutherford JN, Tardif S., Ross C., **Riesche L.**, deMartelly V., Sills A., Layne-Colon D., and Ziegler T. (2016). Metabolic hormone dynamics of the marmoset monkey pregnancy. International Federation of Placenta Associations Annual Meeting. Portland, OR (poster).

^Rutherford JN, Tardif SD, Ross C., Layne-Colon D., Sills A., **Riesche L.**, and Ziegler T. (2016). Metabolic hormone dynamics across marmoset monkey pregnancy: sources of variation and implications for birth outcomes. American Association of Physical Anthropologists Annual Meeting. Atlanta, GA (podium).

Riesche L., & Rutherford JN. (2016). Maternal energetics and placental epigenetics: Implications for offspring outcomes. Midwest Nursing Research Society (MNRS) Annual Meeting. Milwaukee, WI (poster).

Riesche L., & Rutherford, J. (2015). Placental epigenetics and developmental programming. International Society of Nurses in Genetics (ISONG) World Congress. Pittsburgh, PA (poster).

#^**Riesche L.** (2015) The role of every nurse in the collective commitment to compassionate care. 2015. White coat ceremony, College of Nursing, University of Illinois, Chicago, IL (podium).

Riesche, S., & Apatira O. (2012) An exploration of first-time mother's childbirth experience and factors influencing the decision of childbirth delivery method. Grace Peterson research colloquium, Chicago, IL (poster).

State/Regional Presentations

^**Narapareddy L,** Rhon-Calderone EA, Vrooman, LA, and Bartolomei, MS. (2020). Altered metabolic outcomes and abnormal placental epigenetic profiles in IVF-conceived offspring. Southeast Regional Clinical and Translational Science Conference. Pine Mountain, GA, USA. (podium)

#**Narapareddy L.** (2020). Epigenetics and social determinants of maternal child health. American College of Nurse Midwives, Georgia Chapter. Atlanta, GA, USA.

MEDIA

Riesche, L. (2015, January 26). Like a koala bear hanging out in a tree: Anxiety and excitement as a nurse starts her PhD journey. *RWJF Culture of Health*. Available at http://www.rwjf.org/en/culture-of-health/2015/01/like_a_koala_bearha.html

Wisby, G. (2014, August 18). New program helps nurses move forward, faster, with PhDs. *UIC News*. Available at <http://news.uic.edu/new-program-helps-nurses-move-forward-faster-with-phds>

TEACHING ACTIVITIES

Courses Taught

Fall 2020	Maternity & Reproductive Health Nursing NRSG 408	Guest Lecture Infertility	Emory University, School of Nursing, Atlanta, GA
Fall 2019-20	Omics in Health and Disease NRSG 740	Guest Lecture Epigenomics	Emory University, School of Nursing, Atlanta, GA
Spring 2018	Genetics	Co-Instructor	University of Pennsylvania, Penn Academy for Reproductive Sciences Philadelphia, PA
Spring 2017	Genetics in Nursing Research	Guest Lecturer	University of Illinois at Chicago College of Nursing, Chicago, IL
Fall 2016	Biological Basis for Women's Health and Perinatal Nursing	Teaching Assistant	University of Illinois at Chicago College of Nursing, Chicago, IL
Fall 2010	Human Anatomy & Neuroanatomy	Teaching Assistant	National University of Health Sciences Lombard, IL

PROFESSIONAL AND UNIVERSITY SERVICE ACTIVITIES

Membership in Professional Organizations

American Society of Reproductive Medicine member

International Federation of Placenta Associations	member
International Society of Nurses in Genetics (ISONG)	member
Midwest Nursing Research Society (MNRS)	member
National Association of Hispanic Nurses (NAHN)	member
Sigma Theta Tau International (STTI) Honor Society	member
Zeta Sigma Chapter	
Illinois Hispanic Nurses Association	former member
Student Nursing Association of Illinois	former member
Society for Advancement of Chicano and Native Americans in Science	former member
Graduate Women in Science, Sigma Delta Epsilon Chapter	former member

Manuscript Reviewer

Prior Service at Other Universities

2020-present	Research Committee, Emory University, Nell Hodgson Woodruff School of Nursing	Member
2011-present	Robert Wood Johnson Foundation	Peer Mentor
2015-2017	College of Nursing Research Committee University of Illinois Chicago Member	Doctoral Student
2014-2017	Graduate Nursing Student Academy, American Association of Colleges of Nursing, Liaison University of Illinois Chicago	
2015-2016	Graduate Student Nurses Organization, University of Illinois Chicago	Vice President
2014-2016	College of Nursing Curriculum Committee, University of Illinois Chicago	Doctoral Student Member
2012-2017	Bridges to the Doctorate Program, University of Illinois Chicago	Peer Mentor