

Elizabeth Kennedy, PhD

Postdoctoral Fellow
Emory University Rollins School of Public Health
Gangarosa Department of Environmental Health

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RESEARCH FOCUS

The long-term goal of my research is to examine the *genetic and epigenetic* characteristics that underlie early development, childhood health and disease, and to determine how maternal health modifies those characteristics. I am particularly interested in the first 1,000 days that span the critical window from conception to a child's second birthday, in which maternal health is communicated to offspring first through the *placenta* and then through *breastmilk*. I have expertise in using sophisticated analytical approaches that can be applied to cutting edge -omics data in population studies. By understanding how maternal-child exposures and lifestyle influence children's health, we can inform recommendations, guidelines and early interventions in reducing disease risk over the lifespan and advancing our understanding of the developmental origins of health and disease.

EDUCATION

Post-doctoral Fellowship

Emory University, Gangarosa Department of Environmental Health
Advisors: Carmen Marsit, PhD & Usha Ramakrishnan, PhD

Atlanta, GA
April 2018

Emory University

PhD, Genetics and Molecular Biology
Advisor: Karen Conneely, PhD, mentor

Atlanta, GA
December 2017

Title: Epigenome-Wide Patterns of DNA Methylation in Radiation Exposure and Gene Expression

University of West Florida

MS, Biology (Joe Lepo, PhD, mentor)

Pensacola, FL
August 2011

University of West Florida

BS, Biology/Microbiology, *Magna cum laude*

Pensacola, FL
May 2008

FELLOWSHIPS

Molecules to Mankind Doctoral Pathway Fellow (BWF ID: 1008188)

Role: Graduate Fellow

2014 – 2016

NIGMS Predoctoral Training Program in Genetics (T32GM008490)

Role: Graduate Fellow

2013 – 2015

University of West Florida Graduate Student Scholarly and Creative Activity Grant

Role: Graduate Fellow

2008 – 2011

HONORS

Genetics Society of America Early Career Scientist Peer Review Training Program Trainee 2019

19th University of Washington Summer Institute in Statistical Genetics Scholarship Summer 2014

18th University of Washington Summer Institute in Statistical Genetics Scholarship Summer 2013

American Society for Microbiology Student Travel Award May 2011

University of West Florida Student Scholar Symposium Graduate Collaborative Award	2010-2011
University of West Florida Department of Biology Outstanding Graduate Student	2009-2010
University of West Florida Graduate Student Scholarly and Creative Activity Grant	2008 – 2011

RESEARCH EXPERIENCE

Postdoctoral Researcher, Emory University

April 2018-Curr.

Gangarosa Department of Environmental Health
 Rollins School of Public Health
 Advisors: Carmen Marsit & Usha Ramakrishnan

DNA methylation

- Established a relationship between promoter methylation at the transcription factor, *ZNF197* and placental copper concentration, which is linked to maternal metabolism.
- Collaborated with Dr. Allison Appleton, University at Albany (SUNY), to estimate the role of maternal stress in epigenetic gestational age at birth.
- Collaborated with Pediatric HIV/AIDS Cohort Study (PHACS), Harvard T.H. Chan School of Public Health, to estimate epigenetic ages among youth with perinatally acquired HIV and youth who were perinatally HIV-exposed uninfected

microRNA

- Developed an analytical pipeline to assess the impact of microRNAs in placenta using integrated -omic measures and AI methods.
- Established relationships between placental microRNAs, birth weight, early childhood growth, and maternal factors, like BMI.
- Collaborated with Dr. Carrie Breton's research group at USC to interpret the effects of differential abundance of extracellular microRNAs in maternal plasma, between early and late pregnancy.
- Initiated collaboration with Dr. Alison Paquette, Seattle Children's Hospital, to utilize machine learning techniques to develop the placental microRNA regulatory network.

This work is funded through a K99/R00 Pathway to Independence Award from NICHD and has resulted in 12 manuscripts (four as first-author) including six peer reviewed publications (1–6) in leading journals such as *Epigenetics*.

Doctoral student, Emory University

Aug 2012 – Dec. 2017

Department of Human Genetics
 Advisor: Karen Conneely

- Characterized genome-wide DNA methylation signatures of gene expression in human blood cells.
- Exhibited that site-specific DNA methylation is capable of associating with cross-chromosome gene transcription.
- Developed database of site-specific CpG to gene relationships in blood cells to aid in Epigenome-wide association study (EWAS) interpretation, as well as a custom UCSC genome browser track to aid in EWAS visualizations.
- Demonstrated that cross-sectional methylation-transcription associations were primarily negative, including in gene bodies. This last finding highlights that the persistent idea that DNA methylation negatively associates with transcription in promoter regions and positively associates with transcription in gene bodies, cannot be assumed in cross-sectional, population-based studies.
- Initiated collaboration with Dr. Paula Vertino (University of Rochester) and led the first EWAS of galactic cosmic radiation in human cell culture, which found that radiation-specific epigenetic changes could distinguish tumor from normal cells in both lung adenocarcinoma and lung squamous cell carcinoma.

- Collaborated with on research characterizing epigenetic patterns that relate with exposure to polybrominated biphenyl (PBB), gestational epigenetic age (Knight, *Genomics*), air pollution and aging (Peters, *Nature Communications*).

This work was funded by a competitive appointment to a T32, and a fellowship in the Emory Molecules to Mankind program, funded by the Burroughs Wellcome Fund and resulted in nine peer-reviewed publications (three as first author; 7–15), as well as the creation of a publicly available resource to enable use of methylation-transcription signatures available as annotation for other EWASs.

GRANT SUPPORT

Apr 2021 – Mar 2026 Placental and breastmilk microRNAs in relation to early-life growth and metabolism
Principal Investigator: Elizabeth Kennedy Goehring, PhD
Emory University
NIH NICHD K99/R00 Pathway to Independence Award, K99HD104991
\$1,008,981

PUBLICATIONS

Published Peer-Reviewed Journals

1. Tian F-Y, **Kennedy EM**, Hermetz K, Burt A, Everson TM, Punshon T, Jackson BP, Hao K, Chen J, Karagas MR, Koestler DC, Marsit C. Selenium-associated differentially expressed microRNAs and their targeted mRNAs across the placental genome in two U.S. birth cohorts. *Epigenetics*. 2021 Nov 16;1–12. PMID: 34784848
2. Shiao S, Brummel SS, **Kennedy EM**, Hermetz K, Spector SA, Williams PL, Kacanek D, Smith R, Drury SS, Agwu A, Ellis A, Patel K, Seage GR, Van Dyke RB, Marsit CJ, Pediatric HIV/AIDS Cohort Study (PHACS). Longitudinal changes in epigenetic age in youth with perinatally acquired HIV and youth who are perinatally HIV-exposed uninfected. *AIDS*. 2021 Apr 1;35(5):811–819. PMCID: PMC7969428
3. Howe CG, Foley HB, **Kennedy EM**, Eckel SP, Chavez TA, Faham D, Grubbs BH, Al-Marayati L, Lerner D, Suglia S, Bastain TM, Marsit CJ, Breton CV. Extracellular vesicle microRNA in early versus late pregnancy with birth outcomes in the MADRES study. *Epigenetics*. 2021 Mar 18;1–17. PMID: 33734019
4. **Kennedy EM**, Hermetz K, Burt A, Everson TM, Deysenroth M, Hao K, Chen J, Karagas MR, Pei D, Koestler DC, Marsit CJ. Placental microRNA expression associates with birthweight through control of adipokines: results from two independent cohorts. *Epigenetics*. 2020 Oct 4;1–13. PMID: 33016211
5. **Kennedy E**, Everson TM, Punshon T, Jackson BP, Hao K, Lambertini L, Chen J, Karagas MR, Marsit CJ. Copper associates with differential methylation in placentae from two US birth cohorts. *Epigenetics*. 2020 Mar;15(3):215–230. PMCID: PMC7028322
6. Clarkson-Townsend DA*, **Kennedy E**, Everson TM, Deysenroth MA, Burt AA, Hao K, Chen J, Pardue MT, Marsit CJ. Seasonally variant gene expression in full-term human placenta. *FASEB J*. 2020 Aug;34(8):10431–10442. PMCID: PMC7688493
7. Gondalia R, Baldassari A, Holliday KM, Justice AE, Méndez-Giráldez R, Stewart JD, Liao D, Yanosky JD, Brennan KJM, Engel SM, Jordahl KM, **Kennedy E**, Ward-Caviness CK, Wolf K, Waldenberger M, Cyrus J, Peters A, Bhatti P, Horvath S, Assimes TL, Pankow JS, Demerath EW, Guan W, Fornage M, Bressler J, North KE, Conneely KN, Li Y, Hou L, Baccarelli AA, Whitsel EA. Methylome-wide association study provides evidence of particulate matter air pollution-associated DNA methylation. *Environ Int*. 2019;132:104723. PMCID: PMC6754789
8. Curtis SW, Cobb DO, Kilaru V, Terrell ML, **Kennedy EM**, Marder ME, Barr DB, Marsit CJ, Marcus M, Conneely KN, Smith AK. Exposure to polybrominated biphenyl (PBB) associates with genome-wide DNA methylation differences in peripheral blood. *Epigenetics*. 2019 Jan 24;0(0):1–15. PMID: 30676242
9. Knight AK, Park HJ, Hausman DB, Fleming JM, Bland VL, Rosa G, **Kennedy EM**, Caudill MA, Malysheva O, Kauwell GPA, Sokolow A, Fisher S, Smith AK, Bailey LB. Association between one-carbon

metabolism indices and DNA methylation status in maternal and cord blood. *Sci Rep.* 2018 Nov 15;8(1):16873. PMID: PMC6237996

10. **Kennedy EM**, Goehring GN, Nichols MH, Robins C, Mehta D, Klengel T, Eskin E, Smith AK, Conneely KN. An integrated -omics analysis of the epigenetic landscape of gene expression in human blood cells. *BMC Genomics.* 2018 Jun 19;19(1):476. PMID: 29914364
11. **Kennedy EM**, Powell DR, Li Z, Bell JSK, Barwick BG, Feng H, McCrary MR, Dwivedi B, Kowalski J, Dynan WS, Conneely KN, Vertino PM. Galactic Cosmic Radiation Induces Persistent Epigenome Alterations Relevant to Human Lung Cancer. *Sci Rep.* 2018 Apr 30;8. PMID: PMC5928241
12. Robins C, McRae AF, Powell JE, Wiener HW, Aslibekyan S, **Kennedy EM**, Absher DM, Arnett DK, Montgomery GW, Visscher PM, Cutler DJ, Conneely KN. Testing Two Evolutionary Theories of Human Aging with DNA Methylation Data. *Genetics.* 2017 Jan 1;genetics.300217.2017. PMID: 28855307
13. Knight AK, Craig JM, Theda C, Bækvad-Hansen M, Bybjerg-Grauholm J, Hansen CS, Hollegaard MV, Hougaard DM, Mortensen PB, Weinsheimer SM, Werge TM, Brennan PA, Cubells JF, Newport DJ, Stowe ZN, Cheong JLY, Dalach P, Doyle LW, Loke YJ, Baccarelli AA, Just AC, Wright RO, Téllez-Rojo MM, Svensson K, Trevisi L, **Kennedy EM**, Binder EB, Iurato S, Czamara D, Räikkönen K, Lahti JMT, Pesonen A-K, Kajantie E, Villa PM, Laivuori H, Hämäläinen E, Park HJ, Bailey LB, Paretz SE, Kilaru V, Menon R, Horvath S, Bush NR, LeWinn KZ, Tylavsky FA, Conneely KN, Smith AK. An epigenetic clock for gestational age at birth based on blood methylation data. *Genome Biol.* 2016 07;17(1):206. PMID: PMC5054584
14. Peters MJ, Joehanes R, Pilling LC, Schurmann C, Conneely KN, Powell J, Reinmaa E, Sutphin GL, Zhernakova A, Schramm K, Wilson YA, Kobes S, Tukiainen T, NABEC/UKBEC Consortium, Ramos YF, Göring HHH, Fornage M, Liu Y, Gharib SA, Stranger BE, De Jager PL, Aviv A, Levy D, Murabito JM, Munson PJ, Huan T, Hofman A, Uitterlinden AG, Rivadeneira F, van Rooij J, Stolk L, Broer L, Verbiest MMPJ, Jhamai M, Arp P, Metspalu A, Tserel L, Milani L, Samani NJ, Peterson P, Kasela S, Codd V, Peters A, Ward-Caviness CK, Herder C, Waldenberger M, Roden M, Singmann P, Zeilinger S, Illig T, Homuth G, Grabe H-J, Völzke H, Steil L, Kocher T, Murray A, Melzer D, Yaghootkar H, Bandinelli S, Moses EK, Kent JW, Curran JE, Johnson MP, Williams-Blangero S, Westra H-J, McRae AF, Smith JA, Kardia SLR, Hovatta I, Perola M, Ripatti S, Salomaa V, Henders AK, Martin NG, Smith AK, Mehta D, Binder EB, Nylocks KM, **Kennedy EM**, Klengel T, Ding J, Suchy-Dicey AM, Enquobahrie DA, Brody J, Rotter JI, Chen Y-DI, Houwing-Duistermaat J, Kloppenburg M, Slagboom PE, Helmer Q, den Hollander W, Bean S, Raj T, Bakhshi N, Wang QP, Oyston LJ, Psaty BM, Tracy RP, Montgomery GW, Turner ST, Blangero J, Meulenbelt I, Ressler KJ, Yang J, Franke L, Kettunen J, Visscher PM, Neely GG, Korstanje R, Hanson RL, Prokisch H, Ferrucci L, Esko T, Teumer A, van Meurs JBJ, Johnson AD. The transcriptional landscape of age in human peripheral blood. *Nat Commun.* 2015 Oct 22;6:8570. PMID: PMC4639797
15. **Kennedy EM**, Conneely KN, Vertino PM. Epigenetic Memory of Space Radiation Exposure. *The Health Risks of Extraterrestrial Environments* [Internet]. 2014 Jul 30; Available from: <https://three-jsc.nasa.gov/articles/Vertino.pdf>
16. Gordon KV, Brownell M, Wang SY, Lepo JE, Mott J, Nathaniel R, Kilgen M, Hellein KN, **Kennedy E**, Harwood VJ. Relationship of human-associated microbial source tracking markers with Enterococci in Gulf of Mexico waters. *Water Res.* 2013 Mar 1;47(3):996–1004. PMID: 23260177
17. Hellein KN, **Kennedy EM**, Harwood VJ, Gordon KV, Wang SY, Lepo JE. A filter-based propidium monoazide technique to distinguish live from membrane-compromised microorganisms using quantitative PCR. *J Microbiol Methods.* 2012 Apr;89(1):76–78. PMID: 22314021
18. Harwood VJ, Brownell M, Wang S, Lepo J, Ellender RD, Ajidahun A, Hellein KN, **Kennedy E**, Ye X, Flood C. Validation and field testing of library-independent microbial source tracking methods in the Gulf of Mexico. *Water Res.* 2009 Nov;43(19):4812–4819. PMID: 19595426

In Review at Peer-Reviewed Journals

1. **Kennedy EM**, Hermetz K, Burt A, Pei D, Koestler DC, Hao K, Chen J, Gilbert-Diamond D, Ramakrishnan U, Karagas MR, Marsit CJ. Placental microRNAs associate with early childhood growth characteristics.

medRxiv. 2022 Feb. <https://www.medrxiv.org/content/10.1101/2022.02.03.22270310v1> (*In revision at Pediatric Research*)

2. Tehrani JM*, **Kennedy EM**, Tian F-Y, Everson TM, Deyssenroth M, Burt A, Hermetz K, Hao K, Chen J, Koestler DC, Marsit CJ. Variation in Placental microRNA Expression Associates with Familial Cardiovascular Disease. bioRxiv. Cold Spring Harbor Laboratory; 2021 Feb 2;2021.02.01.429202. (*In revision at Pediatric Research*)
3. Tehrani JM*, **Kennedy EM**, Tung PW, Burt A, Hermetz K, Punshon T, Jackson BP, Hao K, Chen J, Karagas MR, Koestler DC, Lester B, Marsit CJ. Dysregulation of human placental microRNAs via gestational cadmium exposure is implicated in neurobehavioral outcomes at birth. (*In revision at J Developmental Origins of Health and Disease*)
4. Appleton AA, Lin B, **Kennedy EM**, Holdsworth EA. Maternal depression and neighborhood conditions during pregnancy are associated with gestational epigenetic aging (*In revision at Epigenetics*)
5. Tung PW, Burt A, Hermetz K, **Kennedy EM**, Karagas MR, Marsit CJ. Prenatal lead (Pb) exposure is associated with differential placental DNA methylation and hydroxymethylation in a human population (*In review at Epigenetics*)

In preparation

1. **Kennedy EM**, Hermetz K, Burt A, Pei D, Koestler DC, Hao K, Chen J, Gilbert-Diamond D, Ramakrishnan U, Karagas MR, Marsit CJ. Placental MicroRNAs Associated with Pre-pregnancy BMI Link Placental Function and Early Childhood Growth (*In preparation*)
2. Ladd-Acosta C, Barrett E, Bulka CM, Bush NR, Cardenas A, Dabelea D, Dunlop AL, Fry RC, Gao X, Goodrich JM, Herbstman J, Hivert MF, Kahn LG, Karagas MR, **Kennedy EM**, Knight AK, Mohazzab-Hosseini S, Morin A, Niu Z, O'Shea MT, Ruden D, Schmidt RJ, Smith AK, Song A, Spindel E, Trasande L, Volk H, Weisenberger DJ, Breton CV. Pregnancy Complications and Epigenetic Gestational Age at Birth (*In preparation*)

* Mentee

PRESENTATIONS

Oral Presentations

Local

- “Influence of placental microRNA on newborn birthweight” Emory University School of Nursing. Omics in Health and Disease Seminar. October 27, 2020 and October 5, 2021.
- “Influence of placental microRNA on newborn birthweight” Emory University Rollins School of Public Health. Omics in Public Health Research Seminar. October 12, 2020.
- “Placental microRNA Expression Associates with Birthweight Through Control of Adipocytokines: Results from Two Independent Cohorts” Emory University Molecules to Mankind Program Seminar. March 23, 2020.
- “Peer Review” Emory University Rollins School of Public Health Environmental Health Sciences Program Workshop. February 28, 2020.
- “Epigenome-Wide Patterns of DNA Methylation in Radiation Exposure and Gene Expression” Emory Department of Environmental Health Seminar November 2017.

National

- “Placental MicroRNAs Associated with Pre-pregnancy BMI Link Placental Function and Early Childhood Growth” US Developmental Origins of Health and Disease. 2021 Annual Meeting. Virtual. November 10, 2021.

“Placental miRNAs associate with early childhood growth characteristics” Society for Pediatric and Perinatal Epidemiologic Research. 2021 Annual Meeting. Virtual. June 8, 2021

“Copper Associates with Differential Methylation in Placentae from Two US Birth Cohorts” The Teratology Society Annual Meeting. San Diego, CA. June 2019.

Poster Presentations

Kennedy EM, Hermetz K, Burt A, Pei D, Koestler DC, Hao K, Chen J, Gilbert-Diamond D, Ramakrishnan U, Karagas MR, Marsit CJ. Maternal pre-pregnancy BMI associates with sex-specific placental microRNA patterns. American Society for Nutrition, NUTRITION 2022. June 2022.

Kennedy EM, Hermetz K, Burt A, Everson TM, Hao K, Chen J, Karagas MR, Marsit CJ. Placental microRNAs in the regulation of fetal growth: a meta-analysis of two independent mother-infant cohorts. American Society of Human Genetics annual meeting. Houston, TX. October 2019.

Kennedy EM, Goehring GN, Nichols MH, Robins C, Mehta D, Klengel T, Smith AK, Conneely KN. An integrated -omics analysis of the epigenetic landscape of gene expression in human blood cells. Poster 1672W. American Society of Human Genetics annual meeting. Orlando, FL. October 2017.

Kennedy E, Powell DR, Li Z, Bell JSK, Feng H, Dynan W, Dwivedi B, Kowalski J, Conneely KN, and Vertino PM. Space radiation exposure induces stable epigenome alterations relevant to human lung cancer. AACR: Chromatin and Epigenetics in Cancer. Atlanta, GA. September 2015.

Kennedy EM, Cravero K, Hellein K, and Lepo JE. Comparative efficiency of light sources for PMA activation to distinguish live vs. dead cells using qPCR. Poster Q1888. American Society for Microbiology General Conference, New Orleans, LA. May 2011.

Kennedy EM, Hellein KN, Morrow A, and Lepo JE. A Filter-Based PMA Technique to Distinguish Live- from Membrane-Compromised Microorganisms in Environmental Waters. Poster Q-2393/806 American Society for Microbiology General Conference. San Diego, CA. May 2010.

ABSTRACTS

Tehrani JM*, **Kennedy E**, Tung PW*, Burt A, Hermetz K, Punshon T, Jackson BP, Hao K, Chen J, Karagas MR, Koestler DC, Lester B, Marsit CJ. “Human placental microRNAs dysregulated by cadmium exposure predict neurobehavioral outcomes at birth in two independent birth cohorts”. Society of Toxicology Annual Meeting. San Diego, CA. March 2022.

Tung PW*, Burt A, Hermetz K, **Kennedy E**, Marsit CJ. “Prenatal lead exposure is associated with differential placental DNA methylation and hydroxymethylation in a human population”. Society of Toxicology Annual Meeting. San Diego, CA. March 2022.

Tehrani JM*, **Kennedy EM**, Burt A, Hermetz K, Punshon T, Jackson BP, Hao K, Chen J, Karagas MR, Koestler DC, Marsit CJ. “Placental microRNAs dysregulated by gestational cadmium exposure are implicated in placentation and neurodevelopment” Oral Presentation. US Developmental Origins of Health and Disease. Chapel Hill, NC. October 2021.

Tehrani JM*, Starks M, **Kennedy EM**, Burt A, Hermetz K, Punshon T, Jackson BP, Hao K, Chen J, Karagas MR, Marsit CJ. “Arsenic concentrations in the placenta are associated with dysregulation of placental microRNA expression”. Oral Presentation. International Society for Environmental Epidemiology Conference. Virtual. August 2021

Tehrani JM*, **Kennedy E**, Tian F-Y, Burt A, Hermetz K, Punshon T, Jackson BP, Hao K, Chen J, Everson TM, Karagas MR, Marsit CJ. “Cadmium accumulation in the placenta associates with aberrant microRNA expression: results from a small RNA-seq analysis”. Poster Presentation. International Society for Environmental Epidemiology (Virtual). August 2020.

Clarkson-Townsend D*, **Kennedy E**, Everson T, Deyssenroth M, Burt A, Hao K, Chen J, Pardue M, Marsit C.
 “Seasonal Gene Expression in Human Placenta”. Poster Presentation. International Society for
 Environmental Epidemiology (Virtual). August 2020.

* Mentee

TEACHING

Guest Lecturer, Emory University Nell Hodgson Woodruff School of Nursing Fall 2020, 2021

Course: ‘Omics in Health and Disease

Responsibilities: Developed and delivered a one hour lecture to a small group of doctoral students.

Guest Lecturer, Emory University Rollins School of Public Health Fall 2020

Course: Environmental Health Seminar “‘Omics in Public Health Research”

Responsibilities: Developed and delivered a 20 minute lecture to a small group of MPH students.

Guest Lecturer, Emory University Fall 2020

Course: Epigenetics

Responsibilities: Led discussion of my own research (PMCID: PMC7028322) in a class of 30 undergraduate students.

Facilitator, Emory University School of Medicine Fall 2018, 2019

Course: Genetics

Responsibilities: Led group discussions with groups of 20 first year medical students covering: Genetic Risk Analysis, Hereditary Cancer, and Prenatal Screening and Testing.

Teaching Assistant, Emory University Spring 2014

Course: Computational Biology and Bioinformatics

Guest Lecturer, University of West Florida Spring 2012

Course: Microbiology

Responsibilities: Delivered a one hour lecture on the history of the field of microbiology to a group of 100 undergraduate students.

Adjunct Instructor, Pensacola State College Spring 2012

Course: Anatomy and Physiology I Lab

Responsibilities: Developed short introductory lectures to orient undergraduate students to laboratory assignments. Wrote quizzes. Graded assignments, quizzes and tests.

Adjunct Instructor, University of West Florida

Course: Anatomy and Physiology I Laboratory

Spring 2012

Course: General Microbiology Laboratory

Spring 2011

Course: General Biology Laboratory

Fall 2011

Responsibilities: Developed short introductory lectures to orient undergraduate students to laboratory assignments. Wrote quizzes. Graded assignments, quizzes and tests.

Teaching Assistant, University of West Florida Fall 2010

Course: General Microbiology Laboratory

MENTORSHIP

High School Students

Megan Rai, Intel International Science and Engineering Fair Mentor

Summer 2019

Current: Hamilton College, Freshman

Undergraduate Students

Robert Paine, PhD, UWF 2011 – 2012

Current: Postdoctoral Fellow, Tennessee Tech University

Yen Chau, MD, UWF 2010 – 2011

Current: Pediatric Anesthesiologist, Ascension Sacred Heart, Pensacola, FL

Karen Cravero, PhD, UWF 2010 – 2012

Current: Johns Hopkins University Graduate. Medical Student, University of Florida

Karl Mereus, Pharm D, University of West Florida 2009 – 2010

Current: Manager, Regulatory Affairs, Passage Bio

Graduate Students

Michael Mortillo (Emory), Research Mentor Fall 2021 – Curr.

Current: Emory graduate student

Millie Tung (Emory), Research Mentor Spr 2021 – Curr.

Current: Emory graduate student

Keenan Wiggins (Emory), Human Genetics Course Mentor Fall 2019

Current: Emory graduate student

Courtney Willet, Emory, Rotation mentor Spr 2019

Current: Emory graduate student

Nadia Harerimana, Emory, Human Genetics Course Project Mentor Fall 2018

Current: Associate Computational Scientist at Mount Sinai

Jesse Tehrani (Emory), Research mentor Fall 2018-Spr 2022

Current: Associate Strategy Consultant, Triangle Insights Group

Sarah Menz, MSPH, Emory, Master's Thesis Mentor Spr-Fall 2018

Current: Epidemiologist, Washington State Department of Health

Danielle Clarkson-Townsend (Emory), Research mentor Spr 2018-2021

Current: Research Fellow in Sleep Medicine, Harvard Medical School

SERVICE

Scientific Reviewer

Scientific Reports

Journal of the American Society of Nephrology

Epigenetics

eLife

Clinical Epigenetics

Society Memberships

Genetics Society of America

Society for Pediatric and Perinatal Epidemiologic Research

American Society of Human Genetics

US DOHaD Society

Conference Session Moderator

ASHG 2019 - Prenatal Diagnosis and Pregnancy Loss