

**CURRICULUM VITAE  
AUDREY C. CHOH  
OCTOBER 2025**

**UNIVERSITY ADDRESS:**

Department of Epidemiology  
University of Health Houston, Regional Location - Brownsville  
SPH Building N1.102C, One West University Boulevard, Brownsville, TX 78520  
E-mail:audrey.c.choh@uth.tmc.edu  
Telephone: 956) 755-0652  
Facsimile: (956) 755-0606

**EDUCATION:**

**DEGREE:**

**DATE:**

**MAJOR:**

University at Albany - SUNY  
Albany, New York, U.S.A.

Ph.D.

December 2002

Anthropology

University of Guelph  
Guelph, Ontario, Canada

M.Sc.

February 1994

Human Biology

University of Toronto  
Scarborough, Ontario, Canada

B.Sc.

June 1991

Anthropology /  
Biology

**POST GRADUATE EDUCATION:**

January 2003-  
January 2006      Postdoctoral Researcher in Cardiovascular Epidemiology, Lifespan Health  
Research Center, Department of Community Health, Boonshoft School of  
Medicine, Wright State University, Dayton, Ohio.

October 31, 2015-  
October 31, 2017      Certification in Public Health (CPH), National Board of Public Health  
Examiners

**APPOINTMENTS:**

April 2021 -  
Present      Assistant Professor (NTI), Human Genetics Center, Department of  
Epidemiology, The University of Texas Health Science Center at Houston  
School of Public Health – Brownsville Location, Brownsville, Texas.

January 2017 -  
March 2021      Assistant Professor (NTT), Human Genetics Center, Department of  
Epidemiology, Human Genetics and Environmental Sciences, University of  
Texas Health Science Center at Houston School of Public Health –  
Brownsville Campus, Brownsville, Texas.

January 2017 - Present	Adjunct Assistant Professor, Department of Population and Public Health Sciences, Boonshoft School of Medicine, Wright State University, Dayton, Ohio.
July 2016 - December 2016	Research Assistant Professor, Department of Population and Public Health Sciences, Boonshoft School of Medicine, Wright State University, Dayton, Ohio.
February 2006 - July 2016	Research Assistant Professor, Lifespan Health Research Center, Department of Community Health, Boonshoft School of Medicine, Wright State University, Dayton, Ohio.
January 2003- January 2006	Postdoctoral Researcher in Cardiovascular Epidemiology, Lifespan Health Research Center, Department of Community Health, Boonshoft School of Medicine, Wright State University, Dayton, Ohio.
June 2000- August 2000	Field Director, Tutuila, American Samoa. (Dr. Stephen T. McGarvey, PI, Brown University)
Fall 1998 - Spring 2000	Research Assistant, State University of New York at Albany, New York.
Spring 1992	Research Summer Career-Oriented Student Employment Program (COSEP) student, Petawawa National Forestry Institute. (Drs. Willard Fogal and Kurt Johnston, Supervisors)

### **TRAINING:**

Epidemiology Retreat, Department of Epidemiology, UTHealth Houston, May 30-31, 2024, Houston, TX.

Non-Tenure Faculty Retreat, Office of the Faculty Affairs, UTHealth Houston, May 17, 2024, Houston, TX.

Maternal-Child Health Retreat, Office of the Dean, UTHealth Houston, June 24-25, 2024, Austin, TX.

AI and Student Learning: What We Know (and What We Don't), Inside Higher Ed Webinar, April 10, 2024

Raising a Resilient Scientist (RRS) series, Office of Intramural Training & Education, National Institutes of Health, Feb 1, 2024 – June 20, 2024

Diversity, Collaboration, and Opportunities in Current Health Science Education, The 2023 Innovation in Health Science Education Annual Conference, Shine Academy UT System, March 3-4, 2023

How to ‘Flip’ the Classroom, Chronicles of Higher Education Webinar, Sep 21, 2022

Teaching Scholars Summer Institute, West Virginia University Robert C. Byrd Health Sciences Center Faculty Development, June 6-8, 2022,

Closing the Gap: Required Skills for Developing Innovative, Engaging and Interactive Online Courses, Summer Teaching Institute, UTHealth School of Public Health, June 5, 2019.

Applied Biostatistical & Epidemiological Methods, Survival Analysis, July 16-20, 2007 at the Ohio State University, Columbus, Ohio

Advanced Gene Mapping/Linkage Analysis Course, December 7-13, 2003 at Rockefeller University, New York, New York.

29<sup>th</sup> Ten-Day Seminar on the Epidemiology and Prevention of Cardiovascular Disease, July 20 - August 1, 2003 at Lake Tahoe, California.

### **FIELDWORK EXPERIENCE:**

June 2000- November 2000	Worked with undergraduate Brown University students to collect genealogical data (June-August). Worked with local translators and health nurses, to collect genealogical, anthropometric, and blood pressure data (September-November). Tutuila, American Samoa
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### **TEACHING EXPERIENCE:**

Fall 2024-2025	Instructor for Capstone (PHWM2996), University of Texas Health Science Center at Houston – School of Public Health, Online Class.
Summer 2021-2025	Instructor for Epidemiology 2 (PHWM2615), University of Texas Health Science Center at Houston – School of Public Health, Online Class.
Spring 2022-2025	Instructor for Epidemiology 2 (PHWM2615), University of Texas Health Science Center at Houston – School of Public Health, Online Class.
Spring 2019-2025	Instructor for Epidemiology 1 (PHWM2612), University of Texas Health Science Center at Houston – School of Public Health, Online Class.
Fall 2018-2025	Instructor for Epidemiology 1 (PHWM2612), University of Texas Health Science Center at Houston – School of Public Health, Online Class.

## **WORKSHOPS & SCHOLARSHIP & TEACHING PRESENTATIONS**

“Challenges to Student Engagement in Asynchronous Online Classrooms” with Drs. Elena Feofanova and Nicole Hare-Everline, February 19, 2025, Innovations in Health Science Education Annual Conference, The Shine Academy, Austin, Texas.

"Summer SAS Workshop - Tips and Tricks", June 17-18, 2019, UTHealth Houston-Brownsville Campus, Brownsville, Texas.

### **Invited Presentations:**

“Introduction to Epidemiology”, with Drs. Heather Essigmann and Elena Feofanova, September 11, 2025, UTHealth Houston, School of Nursing, Houston, Texas.

“Engaging Online Students! Lessons & Deliverables from Two Teaching Innovation Awards (Epidemiology I; Epidemiology II)” with Drs. Elena Feofanova and Heather Essigmann, AY23-AY24 Teaching Innovation Award Experience Sharing Session, June 3, 2025, UTHealth Houston, Houston, Texas.

“Fostering Teaching Excellence” with Drs. Elena Feofanova and Heather Essigmann, May 31, 2024, Department of Epidemiology Retreat, UTHealth Houston, Houston, Texas.

## **MENTORING:**

University of Texas Health Science Center at Houston – School of Public Health, Brownsville Regional Location

Fall 2022 – present     **Informal mentor/lead** for Drs. Heather Essigmann and Elena Feofanova, EPI NTI Teaching Excellence Team, University of Texas Health Science Center at Houston - Department of Epidemiology

<b>Dates</b>	<b>Post Doctoral Student – Position</b>	<b>Role</b>
Fall 2023 – present	Ariana L Garza, PhD, Cancer Education and Career Development Program, UTHealth Houston, School of Public Health	Primary Mentor
2018 – 2020	Marlene Garcia, MD, Kleberg Grant Recipient University of Texas Health Science Center at San Antonio	Co-Mentor

<b>Graduated</b>	<b>Doctoral Student – Topic</b>	<b>Role</b>
SP 2025	Anayeli Herrera Morales, PhD student in Epidemiology - <i>Association Between Maternal Sleep Disorders and Maternal and Birth Outcomes: A Retrospective Analysis of Optum’s De-Identified Clinformatics® Data Mart Database</i>	Committee Member
SP 2024	Ariana Garza, PhD in Epidemiology, CPRIT pre-doctoral fellow 2022-2023 – <i>Genetics of Liver Fat in Association with Metabolic Dysfunction in the Fels Longitudinal Study</i>	Dissertation Chair

SP 2024	Paul Yeh, DrPH in Health Promotion – <i>Guiding Cancer Prevention Equity: Epidemiological and Economic Evaluation of Lifestyle Behavior to Facilitate Cancer Screening in Hispanic Adults Along the Texas-Mexico Border</i>	Committee Member
FA 2021	Jessica Pena, Dr Ph in Health Promotion and Behavioral Sciences - <i>Exploring the Relationship Between SDoMH, Anxiety, and Childhood Trauma in Children and Adolescents</i>	External Committee Member

<b>Graduated</b>	<b>Master's Student – Topic</b>	<b>Role</b>
SP 2025	Mei Wong Robson, MPH in Epidemiology – <i>Body Image Misperceptions &amp; Chronic Disease Among Older Mexican Adults</i>	Thesis Chair
SP 2025	Amanda D. Daniels, Customized MPH – <i>Examination of Vaccination-Preventable Disease Patterns: Findings from the CDC's National Immunization Survey</i>	ILE Supervisor
FA 2022	Minji Chae, MS in Biostatistics, Houston - <i>Predicting hospitalization and length of stay following emergency department admission in working adults with chronic kidney disease</i>	Minor Representative Committee Member
SU 2022	Rachel Russek - <i>Telomere length variation by MetS cluster</i>	ILE Supervisor
SP 2020	McKenzie L Ford, MPH in Epidemiology - <i>Anti-Müllerian hormone and skeletal age in female children</i>	Committee Member
SP 2020	Alan Francisco Villareal Rizzo, MPH in Epidemiology - <i>Understanding how social determinants of health impact diabetes management: A Residency Research Network of Texas study</i>	Committee Member
FA 2020	Michael Othon Roa, MPH in Epidemiology - <i>Evaluation of food journal application validity in comparison with DHQ III</i>	Committee Member
SU 2018	Brandon Gonzalez, MPH in Epidemiology – <i>Recent trends in central adiposity in the Fels Longitudinal Study</i>	Committee Member
SP 2018	Victoria M. Limon, MPH in Health Promotion and Behavioral Sciences - <i>A longitudinal analysis of metabolic syndrome and its impact on mental health-related quality of life and the development of depression</i>	Committee Member
SP 2018	Nelson Gonzalez, MPH student in Epidemiology - <i>The burden of subclinical peripheral artery disease in Mexican Americans: results from the Cameron County Hispanic Cohort</i>	Committee Member

<b>Dates</b>	<b>Practicum Student - Topic</b>	<b>Role</b>
SP 2025	Mei Wong Robson – <i>Preferred Language &amp; Healthcare Satisfaction</i>	Faculty Mentor
SU 2024	Viviana de Leon – <i>Polycyclic Aromatic Hydrocarbons Impact (Get-PHIT)</i>	Faculty Mentor
FA 2023	Amanda D. Daniels – <i>Impacts of Substance Use Disorder Program in Large Metro</i>	Faculty Mentor
SP 2023	Astrid Perez - <i>Tu Salud Si Cuenta</i>	Faculty Mentor

SU 2022	Cecilia Colom, MPH in Epidemiology - <i>Creation of a Community Education Initiative to Address End-of-Life Conversations in the Rio Grande Valley</i>	Faculty Mentor
SU 2020	Addison Peck COVID-19 case and contact tracing manual (COVID-related changes in Practicum rules due to COVID-19)	Practicum Preceptor

### Wright State University

June 2013 – Aug. 2013	Pamela M. Cullen, Grad Prep Biomedical Graduate Degree Preparation Program	Mentor
Nov. 2008 – Jul. 2009	Sushant Takesande, Biomedical Science MS student in CVD and genetic epidemiology	Committee Member

### Undergraduate:

Summer Institute for South Texas Public Health Research, UTHealth Science Center at Houston, School of Public Health

2018	Yash Motwani, University of Texas at Austin	(Primary mentor)
2017	Roma Bhandarkar, University of Texas at Austin	(Co-mentor)
2017	Umer Jalil, University of Texas Rio Grande Valley	(Co-mentor)

Texas A&M International University (TAMIU) Summer Research Bootcamp (May 18, 2020 – July 22, 2020)

Richard Almeida, University of Texas Rio Grande Valley, UTHealth certificate: <i>Too Little or Too Much Sleep Influences Mental Health: Depressive Symptoms</i>	Mentor
Maria Astrain, UTHealth – SBMI in Laredo: <i>Hypertension and the New Guidelines</i>	Mentor

### Short-Term Research Experience Access for Minority Students (STREAMS), Wright State University

2015	Paloma Wiggins, Smith College (3rd place poster competition winner)	(Co-mentor with Drs. S. Czerwinski, M. Lee, and M. Peterson)
2015	Tevin Dorsey, North Carolina A&T State University	(Co-mentor with Drs. S. Czerwinski, M. Lee, and M. Peterson)
2008	Miguel Vizbal, Boston University	(Co-mentor with Dr. Wm. C. Chumlea)
2008	Lauren Biekman, Vanderbilt University	(Co-mentor with Dr. M. Lee)
2006	Jessica Chavez	(Co-mentor with Drs. W.C. Cameron and M. Lee)
2005	Afton Jackson	(Co-mentor with Drs. S. Czerwinski and M. Lee)
2004	O. Rita Mbamalu	(Co-mentor with Drs. S. Czerwinski and M. Lee)
2004	Vicki De Santos	(Co-mentor with Drs. B. Towne and D. Duren)

**High-School:**

RGV Summer Science Internship, UTHealth Science Center at Houston, School of Public Health, Brownsville and UTRGV (<https://www.utrgv.edu/school-of-medicine/departments/population-health-and-biostatistics/community/summer-science-internship/index.htm>)

2023/6/6 - 2023/7/21	Gabriela Abigail Villareal, Lopez Early College High School, Brownsville: TX: <i>Comparing Bone Age Determined by Automation</i>	Mentor
2018	Oscar Hernandez, Gladys Porter High School, Brownsville, TX	Co-mentor

**ADVISING:**

University of Texas Health Science Center at Houston – School of Public Health, Brownsville  
Regional Location

<b>Student Advising</b>	<b>Student, Degree program, Location (not Brownsville)</b>
2025 FA – present	Ricky Molina, MPH student in MPACH
2025 FA – present	Itzel Solis, MPH student in Customized Program
2025 SU – present	Jorge Mercado, MPH student in Epidemiology
2024 FA – present	Raushana Tajudeen, MPH student in Epidemiology, Houston
2024 FA – present	Linjie Li PhD, PhD student in Epidemiology, Houston
2024 SU – present	Selina (Urbina) Fernandez, PhD student in Epidemiology
2023 FA – 2025 SP	Mei Wong Robson, MPH student in Epidemiology
2023 FA – present	Carole Nail, PhD student in Epidemiology, San Antonio
2023 FA – left UTH 2024 FA	Natividad Rangel-Hinojosa, PhD student in Epidemiology
2021 FA – 2024 FA	Viviana Deleon, MPH student in Epidemiology
2020 FA – 2025 SP	Amanda Daniels, MS student in Customized Program
2020 SP – 2022 SU	Anayeli Herrera Morales, PhD student in Epidemiology
2020 SP – 2023 SU	Ariana Garza, PhD in Epidemiology
2021 FA – 2023 SP	Astrid Perez, MPH in Epidemiology
2022 FA – left UTH 2022 FA	Joel Rojas, MPH student in Epidemiology
2022 FA – left UTH 2022 FA	Sarah Rodriguez, MPH student in Customized Program
2020 SP – 2022 FA	Estefania Gonzalez, MPH in Customized Program
2020 SP – 2022 SP	Alejandra Esparza, MPH in Customized Program
2020 SP – last met 2021 FA	Gilberto Lopez, MPH student in Health Promotion/Education
2020 SP – last met 2021 FA	Gabriel Yanez, MPH student in Epidemiology
2018 SP – 2020 SP	Walter L. Barthel, IV, MPH in Customized program
2019 FA – last met 2019 FA	Amber Elizabeth Deane, MPH student in Epidemiology
2017 SP – 2019 FA	Mario Alberto Ramos, MPH in Epidemiology
2017 FA – last met 2018 SP	Vanessa Salazar, MPH student in Health Promotion and Behavioral Sciences

## **UNIVERSITY SERVICE:**

### **University of Texas Health Science Center at Houston - Department of Epidemiology**

2025/09 – present **Member**, Admissions Committee for Epidemiology  
2024 – present **Member**, Council on Education for Public Health (CEPH) Steering Committee for reaccreditation, Department of Epidemiology  
2024 – present **Chair**, CEPH accreditation working group for Epidemiology, Department of Epidemiology  
2021 – present **Chair**, Epidemiology Curriculum Committee, Department of Epidemiology  
2020 – present **Member**, Epidemiology Curriculum Committee, Department of Epidemiology  
2021 – present **Representative**, Academic Council, Department of Epidemiology  
2023 – 2024 **Member**, Epidemiology Retreat Committee, Department of Epidemiology  
2020/08, 2021/05 **2<sup>o</sup> Proctor**, Preliminary Exam, Department of Epidemiology - Brownsville  
2018/01 **1<sup>o</sup> Proctor**, Preliminary Exam, Department of Epidemiology – Brownsville

### **University of Texas Health Science Center at Houston – Brownsville Location**

2023 – present **Steering committee member**, leadership group for Translational Research Science Seminar: As the leadership group, we find student hosts and speakers for monthly seminars at the Brownsville location in conjunction with faculty from the University of Texas Rio Grande Valley, Brownsville  
2022 – 2024 Student **Liaison** for Epidemiology and Biostatistics Support, Brownsville  
2021 – Present **Representative**, Academic Council for Brownsville  
2021 – Present **Member**, Admissions Committee for Brownsville  
2021 – Present **Member**, Scholarship Committee for Brownsville: Committee ranks students from Brownsville applying for internal scholarships and then forwards suggested stipends to remaining faculty

### **Wright State University**

Assistant Director: Short-Term Training Program to Increase Diversity in Health-Related Research (STREAMS, formerly Short-Term Research Experience Access for Minority Students), Wright State University. November 2015-September 2016

Interim Assistant Director: Short-Term Training Program to Increase Diversity in Health-Related Research (STREAMS, formerly Short-Term Research Experience Access for Minority Students), Wright State University. July 2015-August 2015

Steering Committee Member: Obesity Research Group, Ohio Center for Excellence in Human-Centered Innovation (OHCI), Wright State University. January 2012 – July 2012

## **LOCAL COMMUNITY SERVICE:**

"Brownsville 2025 STEM Immersion Week Experience", July 8, 2025, UTHealth Houston, Brownsville, Texas. Two presentations (a presentation followed by activities, and a discussion on career path) were aimed at giving high school students exposure to the different types of higher education STEM areas of research available to them.



"RGV Summer Science Internship Workshop Series 2: Basic Statistics, Statistical Analysis and Excel Tutorial", July 2, 2025, UTHealth Houston-Brownsville Location, Brownsville, Texas (with Miryoung Lee, PhD).

"Laredo 2025 STEM Immersion Week Experience", June 18, 2025 – June 20, 2025, Texas A&M International University (TAMIU), Laredo, Texas. Two presentations (a presentation followed by activities, and a discussion on career path) were aimed at giving high school students exposure to the different types of higher education STEM areas of research available to them

"Laredo 2024 STEM Immersion Week Experience", June 12, 2024 – June 14, 2024, Texas A&M International University (TAMIU), Laredo, Texas. Two presentations (Epidemiology and Me, and an activity) were aimed at giving high school students exposure to the different types of higher education STEM areas of research available to them.

"RGV Summer Science Internship Workshop Series 2: Basic Statistics, Statistical Analysis and Excel Tutorial", June 6, 2024, UTHealth Houston-Brownsville Campus, Brownsville, Texas.

"RGV Summer Science Internship Workshop Series 2: Basic Statistics, Statistical Analysis and Excel Tutorial", June 28, 2023, UTHealth Houston-Brownsville Campus, Brownsville, Texas (with Miryoung Lee, PhD).

COVID-19 Case Investigator: On behalf of Cameron County Health Department, TX.  
July 2020 – September 2020

### **NATIONAL SERVICE:**

Reviewer: *Frontiers in Genetics, BMC Medical Genetics, Journal of Human Hypertension, Annals of Human Biology, Human Biology, American Journal of Human Biology, American Journal of Hypertension, Obesity, Public Health Nutrition, Human Genetics, International Journal of Obesity, PLoS One, Circulation: Cardiovascular Disease Genetics, Mayo Clinic Proceedings.*

Chair: Mentoring subcommittee of The Obesity Society Epidemiology Interest Group.  
October 2011 – January 2015

### **PROFESSIONAL MEMBERSHIP:**

Current: American Public Health Association

Past: The Obesity Society, Human Biology Association, American Heart Association, American Association of Physical Anthropologists, Canadian Association for Physical Anthropology

## **GRANT & FINANCIAL AWARDS:**

### **Current**

#### UTRGV Maternal Health Research Center

Co-PIs: Robledo, C (contact PI, University of Texas Rio Grande Valley) & George, D (University of Texas Rio Grande Valley)

Role: subcontract PI/Co-I

Funding Agency: Health Resources and Services Administration (HRSA) Maternal Health Research Network (MH-RN) for MSIs--Research Awards (UR6MC50345)

Dates: 09/30/2023 – 09/29/2028

Texas has the highest maternal mortality rate in the developed world and since 2006 has experienced an 87% increase in maternal deaths. The goals and objectives are to establish the UTRGV Maternal Health Research Center (MHRC) and to plan and implement relevant, culturally appropriate peer led interventions to address health disparities in maternal health research studies, and to increase capacity for maternal health disparity research in the RGV by supporting the training and supervision of community health workers

#### Learning by Doing! Expanding, Harmonizing, & Sharing Effective Field Study Experiences for Epidemiology II

Co-PIs (alphabetical order): Essigmann HT, Feofanova EV, John JC, Wilkinson AV

Funding Agency: *Teaching Innovation Award for AY2024-2025*, UTHealth Houston School of Public Health, Office of Instructional Design

Field Methods in Epidemiology (Epi II, PH 2615L) is a required core course for all MPH Epidemiology students, held every semester with multiple sections, and is a popular course for non-epidemiology majors. A key element of Epi II is gaining practical experience in creating, organizing, and conducting real-world public health research. An improved field study experience will translate didactic instruction into practice throughout the semester by operationalizing and using documented procedures to collect real-world data at students' local campus or virtually. This hands-on training will equip students with the training necessary for public health practice.

#### Building Strong Foundational Knowledge Through Student Engagement in Asynchronous Epidemiology I

Co-PIs: Essigmann HT, Feofanova EV

Funding Agency: *Teaching Innovation Award for AY2023-2024*, UTHealth Houston School of Public Health, Office of Instructional Design

The online asynchronous Epidemiology I (Introduction to Epidemiology) class is a core course for all master's level students as well as those majoring and minoring in Epidemiology. Our plan is address challenges related to sub-optimal delivery of course content and low interaction between students and the instructional team. Our plans for sustainability include sharing the developed materials with other Epidemiology I instructors for their use in hybrid sections and to help faculty transition to online teaching.

#### Encouraging Student Engagement in Asynchronous Epidemiology II

Co-PIs: Feofanova EV, Essigmann HT

Funding Agency: *Teaching Innovation Award for AY2023-2024*, UTHealth Houston School of Public Health, Office of Instructional Design

The online asynchronous Epidemiology II (Epi II, Field Methods in Epidemiology) class is in high demand by Epidemiology majors, minors, customized students and doctoral students. Despite the group work, there is still low interaction between students those outside of their group projects. There also appears to be a disconnection between students and the course content as they do not have field data collection experience, and often do not understand why they are doing what the course requires of them. We will address these issues by improving the quality of the online course delivery and introducing practical real-world field experiences to promote student engagement and interaction and give students pragmatic experience in conducting scientific research.

## **Completed**

### **Telomere length dynamics in relation to changes in adiposity and metabolic risk**

Co-PIs: Lee, M (contact PI) & Curran, J

Role: Co-I

Funding Agency: NIH/NIDDK (DK111201)

Dates: 09/23/2016 - 08/31/2023

The goal of this project is to investigate the influence of obesity on human aging, and to identify genes influencing telomere length and telomerase activity.

### **Quantifying Healthy Birth, Growth and Development Knowledge Integration (HBGDki)**

PI: Choh, AC

Funding Agency: Bill and Melinda Gates Foundation (OPP1135978)

Dates: 07/28/2015 - 12/31/2016

The HBGD knowledge integration (HBGDki) initiative integrates data sets from diverse, focused studies into a larger body of knowledge. The purposes of integrating multidisciplinary data are to understand fully the effects of risk factors on growth outcomes and develop effective solutions. As part of this initiative, Fels Longitudinal Study data is among the datasets utilized for integrative analysis.

### **Short-term Training for Minority Students Program**

PI: Czerwinski, SA

Role: Assistant Director, Mentor

Funding Agency: NIH/NHLBI (R25 HL103168)

Dates: 06/01/2010 - 02/28/2016

The major goal of this project is to give short-term training in the cardiovascular sciences with emphasis on basic mechanisms of cellular and neural physiology, cardiovascular and endocrine control/epidemiology to minority undergraduates.

### **Adiposity Disease Risk Factors, and Lifetime Health**

PI: Czerwinski, SA

Role: Co-investigator

Funding Agency: NIH/NICHD (R01 HD012252)

Dates: 7/10/2010 - 6/30/2015

This research project will use both new and existing data from the Fels Longitudinal Study, a unique database that began in 1929. The Fels Longitudinal Study is the world's longest continuous serial study of growth, body composition and risk factors for chronic disease in

randomly ascertained individuals. A major focus of this continuation is the comprehensive assessment of the role of adipose tissue in cardiometabolic disease risk. Liver fat content and abdominal adipose tissue in several depots will be quantified by magnetic resonance imaging (MRI) in order to examine the interrelationships among liver fat, visceral and subcutaneous abdominal adiposity, and total body adiposity with respect to risk for cardiometabolic diseases. These data will be combined with existing data to test a variety of hypotheses by conducting both serial and cross-sectional analyses.

#### PREP Scholars

PI: Czerwinski, SA

Role: Mentor

Funding Agency: NIH/NIGMS (R25 GM086257)

Dates: 03/01/2010 - 02/28/2016

The continuation of a Wright State University Post-baccalaureate Research Education Program, WSU GRAD PREP, (WSUGP) provides research and academic training through an apprenticeship in the biomedical/behavioral sciences for seven scholars per year from underrepresented racial and ethnic groups, individuals with disabilities and/or individuals from disadvantaged backgrounds.

#### Job Demands as Moderators of the Relationship between Physical Activity and Health

PI: Choh, AC

Co-PI: Bowling, N,

Co-I: Czerwinski SA

Funding Agency: Wright State University Emerging Science Seed Grant

Dates: 07/01/2013 – 6/30/2014

This grant extracts objective measures spanning various dimensions of job demands, and examine how job-related dimensions, physical activity, and interactions between the two, influence obesity, blood pressure, general health, and depression, while adjusting for demographic, and behavioral risk factors.

#### Feasibility study for cerebrovascular health assessment

PI: Choh, AC

Co-I: Czerwinski SA, Jacobs B

Funding Agency: Wright State University Department of Community Health Seed Grant

Dates: 01/01/2011 – 12/31/2013

Brain aging is marked by cognitive decline, brain atrophy and increased prevalence of indicators of subclinical stroke such as white matter ischemic disease and cerebral microbleeds. This proposal seeks to develop research tools for use in an epidemiologic study of brain health in a sample of adults over the age of 50. Specifically, we refine and develop data collection and magnetic resonance (MR) image analysis protocols to quantify and analyze brain structures including regional brain volumes, white matter hyperintensities, cerebral microbleeds and stroke. We also test the reliability of the brain parameter measurements obtained from MR images for inter-reader, intra-reader, and image analysis reliability.

#### The Genetics of Infant Growth and Later Obesity

Demerath, EW (PI, University of Minnesota), Towne, B (subcontract PI)

Role: Co-Investigator

Funding agency: NIH/NICHD (R01 HD053685)

Dates: 09/26/2006 – 07/31/2012 (no cost extension)

This study uses serial growth and BMI data from 675 related individuals in the Fels Longitudinal Study to identify genes involved in infant growth and their possible pleiotropic effects on BMI and the risk of overweight and obesity during childhood and adolescence.

#### Genetic Analysis of Osteoporosis Risk Factors

PI: Czerwinski SA

Role: Co-Investigator

Funding agency: NIH/NIAMS (R01 AR052147)

Dates: 09/01/2005 – 06/30/2012 (no cost extension)

The study investigates the genetic determinants of bone mineral density (BMD) and measures of bone quality in a sample of 2,000 adult individuals from large extended pedigrees. The main goal of the study is the identification of genes influencing BMD and measures of bone quality, as well as the identification of genes that have joint influences on these traits.

#### Visceral Adiposity: Genetic and Environmental Influences

PI: Czerwinski, SA

Role: Co-Investigator

Funding agency: NIH/NIDDK (R01DK064870)

Dates: 09/20/2003 - 07/31/2009

The goal of the study is to identify genomic regions influencing the deposition of visceral adipose tissue, and to determine how the genetic control of visceral obesity may be modified by environmental (behavioral) factors such as physical activity and diet. In addition, the genetic epidemiology of systemic inflammation and hormonal dysregulation, which frequently accompany, and are exacerbated by visceral obesity, are explored.

#### MR Imaging of the Human Body

PI: Sherwood

Role: Co-Investigator

Funding agency: WSU Research Challenge/Major Collaboration

Dates: 03/01/2009 - 06/30/2010

This major collaboration grant to develop infrastructure at the Lifespan Health Research Center to facilitate collaborative research projects between LHRC and Wallace Kettering Neuroscience Institute.

#### Adiposity Disease Risk Factors, and Lifetime Health

PI: Siervogel, RM

Role: Co-Investigator

Funding agency: NIH/NICHD (R01HD12222)

Dates: 12/01/2004 – 11/30/2009

This project involves the collection and analysis of long-term serial data from the Fels Longitudinal Study. Data are related to indices and measures of body fatness, adipose tissue distribution, lifestyle, lipids and lipoproteins, blood pressure, and other risk factors for cardiovascular disease. Analyses concern prediction of future states, associations among measures of body composition and other risk factors for cardiovascular disease, and patterns of change in individuals.

### Genetic Epidemiology of Cardiovascular Reactivity to Physiological Stressors

PI: Choh AC

Funding agency: American Heart Association/Ohio Valley Research Affiliate (AHA0325371B)

Dates: 07/01/2003 - 06/30/2005

The overall goal of this project is to examine the role of genetic factors in blood pressure reactivity to physiological stressors. More specifically, we use maximum likelihood variance components-based techniques to search for genetic predispositions for exaggerated blood pressure responses to stress and to determine how much of the genetic effect is shared among the different stress responses and other CVD risk factors such as resting blood pressure. Ultimately, this research attempts to answer how genes affect physiological processes that are likely to be predictors of cardiovascular disease.

### Genetic Epidemiology of CVD Risk Factors

PI: Siervogel, RM

Role: Co-Investigator

Funding agency: NIH/NHLBI (R01HL69995)

Dates: 12/01/2002 - 11/30/2008

This study elucidates the role of genetic factors that influence risk of cardiovascular disease (CVD) and identifies specific genes influencing the age-related progression of CVD risks.

### Drew Diabetes Education Program

PI: Czerwinski, SA (subcontract PI)

Role: Co-Investigator

Funding agency: Ohio Commission on Minority Health (666037), Combined Health District of Montgomery County (PI)

Dates: 10/01/2004 - 06/31/2006

The primary goal of this pilot study is to collect preliminary data evaluating the effectiveness of diabetes intervention program conducted at the Drew Health Center to establish a comprehensive diabetes intervention aimed at improving health and reducing the progression of diabetes-related complications in a medically underserved African-American community.

### **OTHER HONORS AND AWARDS:**

- 2003 29th Ten-Day Seminar on the Epidemiology and Prevention of Cardiovascular Disease travel stipend, American Heart Association
- 2002 Initiatives for Women (IFW) general award, University at Albany
- 2000 Edward E. Hunt Student Prize, Human Biology Association
- 1999 Juan Comas Award, American Association of Physical Anthropologists
- 1999 Graduate Student Organization Travel Grant, University at Albany
- 1997 Graduate Student Organization Travel Grant, University at Albany
- 1996 Graduate Student Organization Travel Grant, University at Albany

**PUBLICATIONS:****Articles in Peer-Reviewed Journals: (\*student from UTHealth Houston, or former institution)**

1. Herrera Morales A\*, **Choh AC**, Bauer CX, Czerwinski SA, Lee, M (2025): Maternal Sleep Disorders and Maternal and Birth Outcomes: A Retrospective U.S. Claims-Based Study. *Brain and Behavior* 15(9):e70908. PMC12463701
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3. Garza AL\*, Blangero J, Lee M, Bauer CX, Czerwinski SA and **Choh AC** (2025): Endophenotype-Informed Association Analyses for Liver Fat Accumulation and Metabolic Dysfunction in the Fels Longitudinal Study. *International Journal of Molecular Science* 26(10). PMC12112654.
4. Yeh PG\*, **Choh AC**, Fisher-Hoch SP, McCormick JB, Lairson DR and Reininger BM (2025): The cross-sectional association between lifestyle behaviors and breast and cervical cancer screening among Hispanic women along the Texas-Mexico border. *Preventive Medicine Reports* 51:103007. PMC11904518
5. Prasad A, **Choh AC**, Gonzalez ND\*, Garcia M, Lee M, Watt G, Maria Vasquez L, Laing S, Wu S, McCormick JB and Fisher-Hoch S (2024): A High Burden of Diabetes and Ankle Brachial Index Abnormalities Exists in Mexican Americans in South Texas. *Preventive Medicine Reports* 38:102604. PMC10874877.
6. Garza AL\*, Lee M, Blangero J, Bauer CX, Czerwinski SA and **Choh AC** (2024): Genetic correlations between liver fat content, metabolic health, and adiposity distribution in the Fels Longitudinal Study. *Nutrition, Metabolism, and Cardiovascular Diseases* 34(7):1610-1618. PMC12086968.
7. Yeh PG\*, **Choh AC**, Fisher-Hoch SP, McCormick JB, Lairson DR and Reininger BM (2024): The association of cancer-preventive lifestyle with colonoscopy screening use in border Hispanic adults along the Texas-Mexico border. *Cancer Causes & Control*. PMID:38743343.
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9. Lucas K, James P, **Choh AC**, Lee M, Czerwinski SA, Demerath EW and Johnson W (2018): The positive association of infant weight gain with adulthood body mass index has strengthened over time in the Fels Longitudinal Study. *Pediatric Obesity* 13(8):476-484. PMID:29493107.
10. Watt GP\*, Fisher-Hoch SP, Rahbar MH, McCormick JB, Lee M, **Choh AC**, Thanikachalam S and Thanikachalam M (2018): Mexican American and South Asian population-based cohorts reveal high prevalence of type 2 diabetes and crucial differences in metabolic phenotypes. *BMJ Open Diabetes Research & Care* 6(1):e000436. PMC5873536.
11. Reynolds KR, Stevens J, Cai J, Lewis CE, **Choh AC** and Czerwinski SA (2018): External Validation of Equations that Use Demographic and Anthropometric Measurements to Predict Percent Body Fat. *Obesity Science & Practice* 4(6):515-525. PMC6298207.

12. Johnson W, **Choh AC**, Lee M, Towne B, Czerwinski SA and Demerath EW (2017): Is infant body mass index associated with adulthood body composition trajectories? An exploratory analysis. *Pediatric Obesity* 12(1):10-18. PMID:26756208.
13. Chu AY, Deng X, Fisher VA, Drong A, Zhang Y, Feitosa MF, Liu C-T, Weeks O, **Choh AC**, Duan Q, Dyer TD, Eicher JD, Guo X, Heard-Costa NL, Kacprowski T, Jr JWK, Lange LA, Liu X, Lohman K, Lu L, Mahajan A, O'Connell JR, Parihar A, Peralta JM, Smith AV, Zhang Y, Homuth G, Kissebah AH, Kullberg J, Laqua R, Launer LJ, Nauck M, Olivier M, Peyser PA, Terry JG, Wojczynski MK, Yao J, Bielak LF, Blangero J, Borecki IB, Bowden DW, Carr JJ, Czerwinski SA, Ding J, Friedrich N, Gudnason V, Harris TB, Ingelsson E, Johnson AD, Kardina SLR, Langefeld CD, Lind L, Liu Y, Mitchell BD, Morris AP, Jr THM, Rotter JJ, Shuldiner AR, Towne B, Völzke H, Wallaschofski H, Wilson JG, Allison M, Lindgren CM, Goessling W, Cupples LA, Steinhauser ML and Fox CS (2017): Multiethnic genome-wide meta-analysis of ectopic fat depots identifies loci associated with adipocyte development and differentiation. *Nature Genetics* 49(1):125-130. PMC5451114.
14. Swanton S\*, **Choh AC**, Lee M, Laubach LL, Linderman JK, Czerwinski SA and Peterson MJ (2017): Body mass index associations between mother and offspring from birth to age 18: the Fels Longitudinal Study. *Obesity Science & Practice* 3(2):127-133. PMC5478810.
15. Malina RM, **Choh AC**, Czerwinski SA and Chumlea WC (2016): Validation of Maturity Offset in the Fels Longitudinal Study. *Pediatric Exercise Science* 28(3):439-455. PMID:26757350.
16. Whitaker KM, **Choh AC**, Lee M, Towne B, Czerwinski SA and Demerath EW (2016): Sex differences in the rate of abdominal adipose accrual during adulthood: the Fels Longitudinal Study. *International Journal of Obesity* 40(8):1278-1285. PMC4970892.
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  20. Linabery AM, Nahhas RW, Johnson W, **Choh AC**, Towne B, Odegaard AO, Czerwinski SA and Demerath EW (2013): Stronger influence of maternal than paternal obesity on infant and early childhood body mass index: the Fels Longitudinal Study. *Pediatric Obesity* 8(3):159-169. PMC3765070.
  21. Johnson W, **Choh AC**, Curran JE, Czerwinski SA, Bellis C, Dyer TD, Blangero J, Towne B and Demerath EW (2013): Genetic risk for earlier menarche also influences peripubertal body mass index. *American Journal of Physical Anthropology* 150(1):10-20. PMC3539227.
  22. Graff M, Ngwa JS, Workalemahu T, Homuth G, Schipf S, Teumer A, Volzke H, Wallaschofski H, Abecasis GR, Edwards L, Franceschini C, Sanna S, Scheet P, Schlessinger D, Sidore C, Xiao X, Wang Z, Chanock SJ, Jacobs KB, Hayes RB, Hu F, Van Dam RM, Consortium G, Crout RJ, Marazita ML, Shaffer JR, Atwood LD, Fox CS, Heard-Costa NL, White C, **Choh AC**, Czerwinski SA, Demerath EW, Dyer TD, Towne B, Amin N, Oostra BA, Van Duijn CM, Zillikens MC, Esko T, Nelis M, Nikopensius T, Metspalu A, Strachan DP, Monda K, Qi L, North KE, Cupples LA, Gordon-Larsen P and Berndt SI (2013): Genome-wide analysis of BMI in adolescents and young adults reveals additional insight into the effects of genetic loci over the life course. *Human Molecular Genetics* 22(17):3597-3607. PMC3736869.
  23. Koller DL, Zheng HF, Karasik D, Yerges-Armstrong L, Liu CT, McGuigan F, Kemp JP, Giroux S, Lai D, Edenberg HJ, Peacock M, Czerwinski SA, **Choh AC**, McMahon G, St Pourcain B, Timpson NJ, Lawlor DA, Evans DM, Towne B, Blangero J, Carless MA, Kammerer C, Goltzman D, Kovacs CS, Prior JC, Spector TD, Rousseau F, Tobias JH, Akesson K, Econs MJ, Mitchell BD, Richards JB, Kiel DP and Feroz T (2013): Meta-analysis of genome-wide studies identifies WNT16 and ESR1 SNPs associated with bone mineral density in premenopausal women. *Journal of Bone and Mineral Research* 28(3):547-558. PMC3691010.

21. Orłowski M, Adkins S, Ellison SA, **Choh AC**, Terwood N and Schuster RJ (2013): Assessment and management of adult obesity in a primary care practice. *World Medical & Health Policy* 5(1):19-36. DOI: 10.1002/wmh3.18.
25. Odegaard AO, **Choh AC**, Nahhas RW, Towne B, Czerwinski SA and Demerath EW (2013): Systematic examination of infant size and growth metrics as risk factors for overweight in young adulthood. *PLoS One* 8(6):e66994. PMC3688577.
26. Johnson W, **Choh AC**, Lee M, Towne B, Czerwinski SA and Demerath EW (2013): Characterization of the infant BMI peak: sex differences, birth year cohort effects, association with concurrent adiposity, and heritability. *American Journal of Human Biology* 25(3):378-388. PMC3988701.
27. Demerath EW, **Choh AC**, Johnson W, Curran JE, Lee M, Bellis C, Dyer TD, Czerwinski SA, Blangero J and Towne B (2013): The positive association of obesity variants with adulthood adiposity strengthens over an 80-year period: a gene-by-birth year interaction. *Human Heredity* 75(2-4):175-185. PMC4091039.
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29. Odegaard AO, **Choh AC**, Czerwinski SA, Towne B and Demerath EW (2012): Sugar-sweetened and diet beverages in relation to visceral adipose tissue. *Obesity* 20(3):689-691. PMC3288354.
30. Johnson W, **Choh AC**, Soloway LE, Czerwinski SA, Towne B and Demerath EW (2012): Eighty-year trends in infant weight and length growth: the Fels Longitudinal Study. *Journal of Pediatrics* 160(5):762-768. PMC3310964.
31. Johnson W, Soloway LE, Erickson D, **Choh AC**, Lee M, Chumlea WC, Siervogel RM, Czerwinski SA, Towne B and Demerath EW (2012): A changing pattern of childhood BMI growth during the 20th century: 70 y of data from the Fels Longitudinal Study. *American Journal of Clinical Nutrition* 95(5):1136-1143. PMC3325836.
32. Johnson W, Stovitz SD, **Choh AC**, Czerwinski SA, Towne B and Demerath EW (2012): Patterns of linear growth and skeletal maturation from birth to 18 years of age in overweight young adults. *International Journal of Obesity* 36(4):535-541. PMC3312969.
33. Lee M, **Choh AC**, Demerath EW, Towne B, Siervogel RM and Czerwinski SA (2012): Associations between trunk, leg and total body adiposity with arterial stiffness. *American Journal of Hypertension* 25(10):1131-1137. PMC3578479.
34. Chumlea WC, **Choh A**, Towne B, Duren D, Siervogel RM and Czerwinski S (2012): Maintaining function with aging what we have learned from the Fels Longitudinal Study. *Journal of Frailty and Aging* 1(2):50-51.
35. Lee M, Nahhas RW, **Choh AC**, Demerath EW, Duren DL, Chumlea WC, Sherwood RJ, Towne B, Siervogel RM and Czerwinski SA (2011): Longitudinal changes in calcaneal quantitative ultrasound measures during childhood. *Osteoporosis International* 22(8):2295-2305. PMC3988661.
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- and lifestyle factors with visceral adiposity in African-American and European-American women. *Annals of Human Biology* 38(3):247-256. PMC3245972.
38. **Choh AC**, Nahhas RW, Lee M, Choi YS, Chumlea WC, Duren DL, Sherwood RJ, Towne B, Siervogel RM, Demerath EW and Czerwinski SA (2011): Secular trends in blood pressure during early-to-middle adulthood: the Fels Longitudinal Study. *Journal of Hypertension* 29(5):838-845. PMC3988666.
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  43. Lee M, **Choh AC**, Demerath EW, Knutson KL, Duren DL, Sherwood RJ, Sun SS, Chumlea WM, Towne B, Siervogel RM and Czerwinski SA (2009): Sleep disturbance in relation to health-related quality of life in adults: the Fels Longitudinal Study. *Journal of Nutrition, Health & Aging* 13(6):576-583. PMC3988690.
  44. **Choh AC**, Demerath EW, Lee M, Williams KD, Towne B, Siervogel RM, Cole SA and Czerwinski SA (2009): Genetic analysis of self-reported physical activity and adiposity: the Southwest Ohio Family Study. *Public Health Nutrition* 12(8):1052-1060. PMC2883310.
  45. Demerath EW, Reed D, **Choh AC**, Soloway L, Lee M, Czerwinski SA, Chumlea WC, Siervogel RM and Towne B (2009): Rapid postnatal weight gain and visceral adiposity in adulthood: the Fels Longitudinal Study. *Obesity* 17(11):2060-2066. PMC2801420.
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Published books, chapters, reviews:

Czerwinski S. A. and **Choh A. C.** (2021): "The Genetic Epidemiology of Growth and Development". In Cameron N. and Schell L. M. (eds.): *Human Growth and Development, 3rd Edition*. London, UK: Elsevier/Academic Press, pp 203-244.

Czerwinski S. A., **Choh A. C.**, and Lee M. (2020): "Growth and Maturation". In: Konek S. H. and Becker P. (eds.): *Pediatric Nutrition in Clinical Care*. 5th Edition: Burlington, MA: Jones and Bartlett Learning.

Donini L. M., Czerwinski S. A., **Choh A. C.**, Poggiogalle E., Migliaccio S. and Lenzi A. (2014): "Sarcopenic Obesity". In Lenzi A., Migliaccia S. and Donini L. M. (eds.): *Multidisciplinary Approach to Obesity: From Assessment to Treatment*. Switzerland: Springer International Publishing, AG, pp 89-98.

Invited Presentations:

"Uniting Forces: Tackling Maternal Health Disparities Through Cross Discipline Collaboration at an Emerging Research Institution", February 15, 2025, at the 8th Annual UTRGV School of Medicine Research Symposium & 3rd International Conference on Cancer Health Disparities (ICCHD), Mission Event Center, Mission, Texas

"Genetic epidemiology in the Fels Longitudinal Study", October 19, 2013, Symposium honouring Susan Pfeiffer's contributions to anthropology at the 41st Annual Meeting of the Canadian Association for Physical Anthropology, Toronto, Ontario, Canada.

"Genetic epidemiology of blood pressure responses to physiological stressors", February 16, 2004, Department of Geography, Geology and Anthropology, Indiana State University, Terre Haute, Indiana.

Abstracts:

1. Garza A\*, **Choh AC**, Lee M, Parsons J, Curran JE, and Blangero J. (2025): The Metallome and Fatty Liver Disease: Association of metal exposures with liver fat accumulation in a family-based study of Mexican American Women. *101st Annual Texas Public Health Association Agenda Conference Launching into the Future of Public Health: On the Border, by the Sea, and Beyond* Brownsville, TX:19.
2. Fernandez S\*, **Choh AC**, Machiorlatti M, Ruvio E, Clark L and Robledo C (2025): Assessing Environmental Hazards Associated with Maternal-child Health in the Texas-Mexico Border Region. *101st Annual Texas Public Health Association Agenda Preconference #1 Launching into the Future of Public Health: On the Border, by the Sea, and Beyond* Brownsville, TX:13.
3. Feofanova EV, **Choh AC**, Essigmann HT, Eugene N, Breckenridge E and Hare-Everline N (2025): Challenges to Student Engagement in Asynchronous Online Classrooms. *2025*

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Non peer-reviewed abstracts:

Garcia M., **Choh A.**, Fischer-Hoch S. and Prasad A. (2019): Subclinical Atherosclerosis and Medical Therapy in a Mexican American Cohort. The 12th Annual Community Service Learning (CSL) Conference. San Antonio, TX:76

**RESEARCH TOOLS:**

**Genetic Analysis:** Genome-Wide-Association (GWA) analysis (measured genotype analysis using SNPs), linkage analysis, combined linkage/association analysis, bivariate linkage analysis, qtl by age, qtl by environment analysis, quantitative genetic analysis, multivariate analysis, gene by age, gene by environment analysis, joint linkage and association analysis.

**Anthropometric skills:** Experience in use of skinfold calipers, spreading calipers, stadiometer, blood pressure sphygmomanometers, infant length boards, and neonatometers.

**Computer skills:** Proficient in UNIX, Windows and Macintosh Platforms. Programming in SAS, SPSS, S-plus, LISREL, C, SED, AWK, tcl, sh, csh, tcsh. Minor programming Dbase, R. Familiarity with C<sup>++</sup>, Fortran. Proficient in PEDSYS (all platforms), SOLAR (versions 1.7.3 and 4.2.9) and other UNIX based programs/executables such as the vi-editor, gcc. Working knowledge of PAP revision 3. Proficient in IBM based software such as Excel, Word, WordPerfect, Power Point, as well as Windows and MS-DOS. Proficient with Macintosh based software such as Word, PedDraw, and Q-Edit.

**Database management:** Management of genetic database on UNIX platform including pedigree, IBD, and STR and SNP marker data for linkage and GWA at the Lifespan Health Research Center. These tasks include data retrieval, quality control and error checking of data. Other center related tasks include updating software, and power calculations.

**AREAS OF RESEARCH INTEREST:**

I am a genetic epidemiologist interested in risk factors related to obesity, blood pressure, growth and development, and cardiovascular disease. Using various statistical genetic methods such as genome-wide linkage analysis and family-based genome-wide association studies (GWAS), my research has examined the genetic architecture of blood pressure, obesity, and body composition. I have also collaborated with various large international consortiums conducting population- and family-based genetic studies. At the phenotypic level, my research interests include the influence of childhood, adulthood and lifetime adiposity and various outcomes in the Fels Longitudinal Study. I have recently expanded to an intervention study on maternal and child health in low-resource communities