

D I G I T A L H E A L T H C A R E



Applied Research and
Industry Collaborations

03
AUG
2022



**KENNESAW STATE
UNIVERSITY**
COLES COLLEGE OF BUSINESS
*Master of Science in Healthcare
Management and Informatics*



CONTENTS

A message from the Executive Director.....	3
A message from the Dean.....	3
Keynote Speaker: Baha Zeidan.....	4
Collaborative Partnerships: Academia and Industry Partners Solving Real Digital Health Challenges	
Poor Worker Health Cost Due to Chronic Illness and Worker Absence.....	6
Implementing Virtual Nursing in Healthcare: An Evaluation of Effectiveness and Sustainability.....	6
Creation of a Digital Knowledge Repository.....	7
Using Data and Technology to Optimize Operational Decision-Making.....	7
Filling the Gaps: Assessing the Relationship Between Preventative Care Practices and Flu Vaccine Uptake.....	8
Impact Analysis of Syndromic Surveillance for Workplaces Using radaRX.....	8
Medicare Claims: An Analysis of the Major Chronic Diseases and the Effect on Total Medicare Reimbursement.....	9
E Mentoring for Nursing Retention and Leadership.....	10
Diabetic Retinopathy Autonomous Screening via AI.....	10
Analysis of VHA Human Resources Modernization.....	11
Crisis Prevention—Mental Health and Behavioral Health.....	11
Healthcare Management & Informatics (HMI): Aspire to More.....	12
Our Story / Our Students.....	13
Testimonials.....	15
Our Vision Forward.....	16
MSHMI Cohorts.....	17



A MESSAGE FROM THE
EXECUTIVE DIRECTOR



Even before launching the MSHMI program, we knew that collaborating with the healthcare and information technology industries was going to be a critical component of its success. As the program celebrates its fifth anniversary, it is clear this was the right decision. Our students have the opportunity to prepare for careers in digital healthcare by connecting with businesses and other organizations driving innovation in that space. In

addition, they participate in leading edge research that will help improve healthcare delivery and patient outcomes. None of this would be possible without our industry colleagues' valuable support.

Sweta Sneha
Founder and Executive Director, MSHMI

A MESSAGE FROM THE
DEAN OF COLES COLLEGE OF BUSINESS



Throughout the past five years, the MSHMI program has grown both in size and reputation thanks in no small part to strong relationships with healthcare providers and technology companies. These relationships have ensured that our students have access to professional resources, perspectives, and data, and have provided steppingstones into exciting new careers. The MSHMI program bridges the gap

between multiple healthcare and technology disciplines while also bridging the gap between academic study and real-world application. It is no surprise that, after five years, Kennesaw State's MSHMI program remains the only one like it in Georgia.

Robin Cheramie
Dean, Coles College of Business

KEYNOTE SPEAKER

Baha Zeidan

CEO and Co-Founder, Azalea Health



Baha is the Co-founder and CEO of Azalea Health, a leading healthcare IT company whose mission it is to help underserved healthcare providers improve patient care and profitability.

Under Baha's leadership, Azalea has established itself as a high-growth innovator and leader, developing a comprehensive, cloud-based health IT platform for ambulatory practices and hospitals -- including introducing the industry's first fully-integrated proprietary tele-health solution with its EHR.

It has achieved Inc. 5000 rank of fastest-growing companies in the U.S for three consecutive years, and has been named a Top 40 Innovative Technology Company by The Technology Association of Georgia (TAG).

Baha has been recognized in the industry with a number of awards including the Phoenix Award by the Metro Atlanta Chamber Bioscience-Health IT Leadership Council in conjunction with the Health IT Leadership Summit for his outstanding contribution to the growth of the health IT

industry in Georgia. He is also a 2018 recipient of the Atlanta Business Chronicle's 40 Under Forty Award and a 2019 recipient of their Most Admired CEOs Award.

Throughout his career, Baha has served as a board member on various regional industry and academic groups. Currently, he serves as President of the Technology Executives Roundtable (TER), and is an active member of the Atlanta Rotary Club. He additionally serves on the Kennesaw State University Healthcare Management & Informatics Advisory Board.

A graduate of Valdosta State University, he is a strong proponent of health IT and cloud computing, mobile development, and big data analytics

COLLABORATIVE PARTNERSHIPS: ACADEMIA AND INDUSTRY PARTNERS SOLVING REAL DIGITAL HEALTH CHALLENGES



The Master of Science in Healthcare Management and Informatics is the first degree of its kind in Georgia, and integrates information technology, computing, data analytics, and health care delivery processes with leadership and management principles. Our collaborative approach to health care IT allows our graduates to understand the complexity of relationships that must be considered when making technology decisions within a care delivery organization, and prepares them to succeed as leaders.

Poor Worker Health Cost Due to Chronic Illness and Worker Absence



Corporate Health Partners is one of many companies designed to cultivate a healthier workforce through wellness programs. This research utilizes client data and visualizations to highlight employee health and bring awareness to wellness programs.

Students: BeAna Stone, Kimberly High, Glenice Arnett, Reshard Abrams

Faculty Advisors: Dr. Soo Shin, Dr. Sweta Sneha

Industry Sponsor: Jackie Warren, Jack Curtis
(Corporate Health Partners)

Implementing Virtual Nursing in Healthcare: An Evaluation of Effectiveness and Sustainability



COVID-19 revealed how vulnerable nurses are to conditions of workplace safety when dealing with outbreaks of contagious infections. This study explores current technology being employed in the U.S healthcare settings and analyzes methodologies used through a Virtual Nurse application.

Students: Brandon Kenemer, Janna Pruiett, Oana Tudorache

Faculty Advisors: Dr. Hossain Shahriar, Dr. Maria Valero de Clemente, Dr. Sweta Sneha

Industry Sponsor: LeeAnna Spiva, Susan Thurman, Jill Case-Wirth (WellStar HS)

Creation of a Digital Knowledge Repository



There is a large room for improvement in the realm of workflow, process, and day-to-day detail documentation, specifically regarding inter-facility variability in a large healthcare enterprise. Researchers propose a technical solution for a collaborative approach to knowledge management in a multimodal healthcare enterprise

Students: Lee Solomon, Reddy Bhavya Gudi,

Humera Asfandiyar

Faculty Advisors: Dr. Hossain Shahriar, Dr. Sweta Sneha

Industry Sponsor: Allison Grahovec (Emory Healthcare)

Using Data and Technology to Optimize Operational Decision-Making



How do data analytic platforms help healthcare providers capture data from disparate clinical and operational data sources? This study explores the use of Splunk and RTLS technology to optimize operational decision making in Emergency Departments. Some achievements of this study include a 20% reduction in delay of care, and reductions seen in both length of stay and adverse events.

Students: Megan Bove, Daya Kansagra, Pooja Mistry

Faculty Advisor: Dr. Sweta Sneha

Industry Sponsor: Brienne Morgan (Splunk)

Filling the Gaps: Assessing the Relationship Between Preventative Care Practice and Flu Vaccine Uptake



The United States has seen a reluctance of Influenza vaccinations due to the perceived lack of risk amongst its' population. Researchers performed a literature review of past studies to fill the gap between the relationship of preventative care measures and flu vaccination status in the general public.

Student: Eric Gaare, Helen Schoening, Ann Do,

Lashonte Browne

Faculty Advisors: Dr. Austin Brown, Dr. Sweta Sneha

Impact Analysis of Syndromic Surveillance for Workplaces Using radaRX



Covid-19 unveiled multiple challenges present in current syndromic surveillance systems. This report analyzes radaRX, a mobile application being used for real-time population symptom health-monitoring, specifically in the workplace.

Students: Nicole Molinary, Tallha Hashrni,

Sanad Biswas

Faculty Advisor: Dr. Yifan Zhang, Dr. Weiwei Chen,

Dr. Sweta Sneha

Industry Sponsor: Saurabh Shrivastava (radaRX)

Medicare Claims: An Analysis of the Major Chronic Diseases and the Effect on Total Medicare Reimbursement



This study analyzes Medicare data from the Center for Medicare & Medicaid Services (CMS) database to draw conclusions on the relationship between Medicare reimbursement for chronic disease treatments and the sociodemographic characteristics of beneficiaries receiving the treatment. Researchers also focused on the location of the providers and if there was any association with the amount paid out by Medicare after accounting for other factors such as race, age, and gender

Student: Yesake Abaye, Usen Usen, Shakaria Wilson

Faculty Advisor: Dr. Gita Taasobshirazi, Dr. Sweta Sneha

Industry Sponsor: Medicare

E Mentoring for Nursing Retention and Leadership



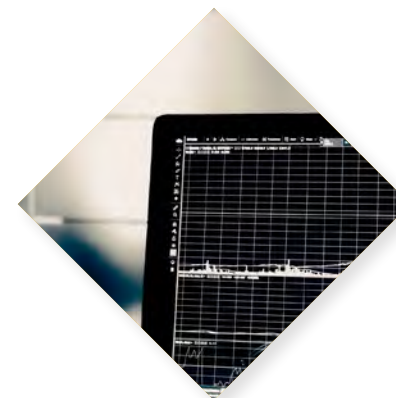
Mentoring of employees in the healthcare setting has become crucial for employee retention and satisfaction. This paper uses an integrative review method to demonstrate the effectiveness of virtual mentoring on healthcare employee retention, while proposing a more technological approach to lessen the burden on the system and support new staff members. Virtual Nursing has shown to provide support for current and future nurses and fills in the gap with clinical experience that isn't provided in Nursing programs

Students: Michelle Padelford, Helen Schoening

Faculty Advisor: Dr. Margot Hedenstrom,
Dr. Sweta Sneha

Industry Sponsor: Piedmont Health System

Diabetic Retinopathy Autonomous Screening via AI



The importance of diagnosing Diabetic Retinopathy is explored through this study proposing a novel automatic diabetic retinopathy model based on a convolutional neural network. Results of this study show the proposed model exhibiting effectiveness in detecting diabetic Retinopathy, with an accuracy of 90.03%.

Students: Neelam Nosheen

Faculty Advisor: Sweta Sneha

Industry Sponsor: Awais Bajwa (Ophthalmics)



Analysis of VHA Human Resources Modernization



Researchers analyze the Veterans Health Administration's modernization initiative regarding Human Resources (HR) processes to streamline actions and improve employee experience. The goal of HR modernization is to create an employee driven HR experience by removing barriers and providing employees with complete end-to-end support

Students: Jada Jackson

Faculty Advisor: Dr. Sweta Sneha

Industry Sponsor: Tonya Gibson (Veterans Health Administration)

Crisis Prevention—Mental Health and Behavioral Health



This paper analyzes underlying behaviors that have led to the prevalence of mental health crises. Researchers use The Sequential Intercept Model (SIM) to identify gaps and solutions used to better assess mental health issues with the objective to develop an algorithm that can identify individuals at risks and provide a path for next steps.

Student: Desmond Ayika, Marquis Morgan, Emmanuel Orekoya

Faculty Advisor: Dr. Dominic Thomas, Dr. Sweta Sneha

Industry Sponsor: Cobb County

Healthcare Management & Informatics (HMI): Aspire to More

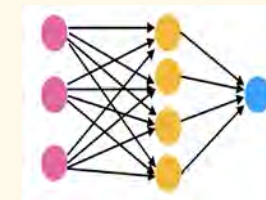
ACADEMIC INNOVATION



190+ Students



The Only Program of its Kind

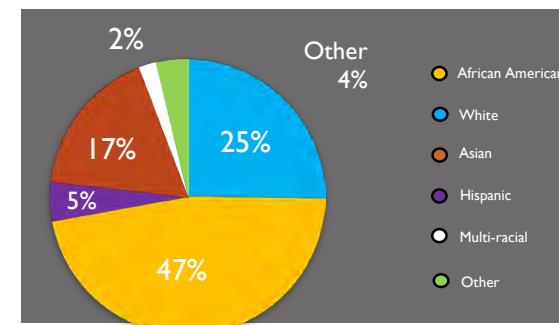


Interdisciplinary Across Four Colleges



Textbooks, Software, Professional Membership

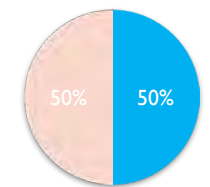
DIVERSITY, EQUITY, INCLUSIVITY



6 Continents



30 Years Average Age



Gender Equality

No GMAT/GRE

FOOTPRINT - ECONOMIC & WORKFORCE DEVELOPMENT



Student Awards/ Accolades
HIMSS, SONY, TAG



Industry Engagements



Certifications
AHIMA, CAHIM, R, SAS, etc.



Publications



Faculty Fellowships



Graduate Research Assistantships

Our Story



Our Students



Testimonials



“ The opportunity to interact with key individuals in the healthcare industry as well as the MSHMI program curriculum’s blend of healthcare and informatics will aid me in achieving the goals I’ve set for myself. The curriculum can take me far, but what’s more important is that I can transfer my knowledge into the real world ”

-VARUN THALLA, Cohort 4

“ Countless times Sweta gave us the chance to interact with executives, whether at conferences or other networking events. This made me feel really comfortable when it was time to do the actual job. I already knew how to answer questions, be knowledgeable, and control the room ”

-FORTUNE ONWUZURUIKE, Cohort 2



“ The program led me to understand a different perspective on healthcare. It allowed me to see the value of the data that is collected and how it can be utilized to serve patients, providers, and payers as we improve the healthcare landscape and reduce costs through technology-driven improvements ”

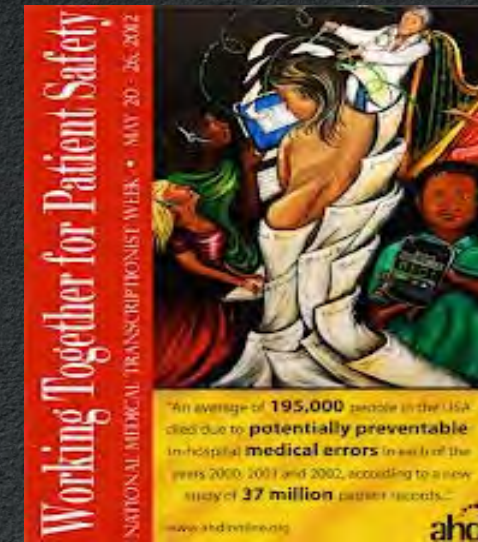
-STACY HAYES, Cohort 3

“ As a medical professional who has seen firsthand how health informatics has been used in the midst of a pandemic, I realize how crucial it is to work closely with informatics to interpret the data collected from a clinical perspective. It is more and more important for clinicians to become involved and assist with data collection in a manner that forwards patient care ”

-VIDYA SUNDARARAJAN, Cohort 1



Our Vision Forward



Global leader in impactful, relevant interdisciplinary education and research impacting the practice and delivery of healthcare and developing the next generation of leaders and innovators with the skills rooted in technology informatics, simulation, risk-modeling, and management to tackle the critical 21st century healthcare challenges.

5-Year Roadmap



Local and Global Students

500+ Graduate Degrees

100+ Industry Collaborations

100+ Fellowships, Scholarships, Publications



PROFESSIONAL CERTIFICATIONS



GRADUATE DEGREE



RESEARCH & GRANTS



COMMUNITY ENGAGEMENTS



COLLABORATIONS & PARTNERSHIPS

MSHMI Alumni Cohort 1

Vinkle Anand—Senior Associate Consultant, Cerner Corporation
 Adeola Bamiro—Data Analyst, Wencor
 Christopher Blodgett—Applications Engineer, MR Systems, Inc.
 Ivan Cardona—Senior Support Engineer, Synchron
 Mahlet Gebrehawariat—Registered Respiratory Therapist, Eastside Medical Center
 Shiva Keerthi Giramaji—Graduate, MSHMI
 Taugiq Hassan—Data Management Coordinator, Children's Healthcare of Atlanta
 Donna Heathcock—Healthcare IT Professional, Wellstar Health System
 Dr. Anubhav Karkar—Epic Consultant
 Bonnie McDaniel—Senior Financial Planning Analyst, WellStar Health System
 Monalisa Patel—Quality Management Specialist, Emory Healthcare

Andrea Ridings—Clinical Principle Business Analyst Consultant, BlueCross BlueShield of TN
 Faisal Saleem—VP of Operations, Children's Medical Group, P.C.
 Uchita Shah—Neuroscience Sales Specialist, Biohaven Pharmaceuticals
 Dr. Pooja Shah—Medical Payment Specialist, AdvancedMB
 Dr. Jiyo Shin—Physician, WellStar Health System
 Dr. Vidya Soundararajan—Obstetrician/Gynecologist, WellStar Health System
 Brandie Szuda—Chief Data Officer, MagMutual
 Sereyroth Than—Forensic Scientist, Quest Diagnostics
 Bernis Tibeme—Radiologic Technologist, Children's Healthcare of Atlanta

MSHMI Alumni Cohort 2

Oluwatosin Adedayo—Workforce Technology Development Lead, Boys & Girls Club of Metro Atlanta
 Ibidunni Alabi—Scrum Master, Scrum Master Guild
 Mabel Amedor—Associate Clinical Data Manager, ClinFocus
 Nicole Bershader—Clinical Quality Value Analysis Facilitator, WellStar Health System
 Ronda Broome—Senior Manager, Clinical Abstraction, Syapse
 Gracie Carter—Product Manager, HaulHub Technologies
 Charles Chakkalapadavil—EMR Training and Support Specialist, Children's Healthcare of Atlanta
 Emily Ennis—Senior Business Intelligence Analyst, Cerner Corporation
 Teresa Evans—Infection Control Specialist, Floyd Medical Center
 Eduardo Garcia—Product Manager, Walmart
 Sadia Ghani—Graduate, MSHMI
 Christian Haygood—Clinical Research Nurse, Northside Hospital
 Melissa Hudson—Reimbursement Analyst, Children's Healthcare of Atlanta
 Philip King—Healthcare Informatics Project Manager, GRM Information Management Services

Janae Logan—Data Analyst, Emory Healthcare
 Solome Mekbib—Clinic Healthcare Analyst, University of Western States
 Anusha Nalla - Professional Informatics Analyst, MVP Health Care
 Olakunle Omodara—Construction Electrician, US Navy Reserves
 Fortune Onwuzuruike—Security Program Manager, Microsoft
 Suzanne Potter—Clinical Informatics Specialist, WellStar Health System
 Bushra Siddiqi—Data Analyst, Marsh & McLennan Agency
 Rachel Sykes—Pre-Operative Registered Nurse, Peachtree Orthopedics
 Nolan Taaca—IT Interoperability Application Analyst, WellStar Health System
 Yasmin Lynch—Practice Manager, Southeast Primary Care Partners, LLC
 Mikia Thomas—Insurance Operations Associate, PwC
 Denise White—Paralegal, Glasser & Schaeffer, PC
 Patricia Whitley—Program Director, Health Information Management Technology, Gwinnett Technical College

MSHMI Alumni Cohort 3

LaMeeya Bumphus—Patient Access Specialist, WellStar Health System

Neha Burse—Data Analyst, Good Samaritan Health Center of Cobb

Victor Casnova—Rx Shift Supervisor, CVS Health

Modupe Coley—Clinical Data Analyst, Oncology Analytics Inc.

Raul Contreras Soriano—Digital Transformation Officer, CEDISA

Jana Duncan—Product Analyst, Zenis

Andrea Fekete—RN

Edwin Fomanka—Lean Process Improvement Engineer, Florida Cancer Specialists & Research Inst.

Stacey Hayes—Senior Immunology Executive, AbbVie

Siddharth Kelavkar—Certified Operator, The UPS Store

Francis Kouakou—Case Management Coordinator, InCommunity

Uchenna Mogbo—Business Analyst

Oluwagbenga Ogungbemi—Graduate, MSHMI

Robert Oru—Senior Clinical Data Coordinator, Torque Therapeutics

Valerie Payne—Consultant, Deloitte

Denzel Peterson—Human Resource Analyst, Hewlett Packard Enterprise

Joshua Sabiiti—Sr. Associate, Data Scientist, McKesson

Folake Sanni—Graduate, MSHMI

Andrea Taylor—Technical Manager—Identity Manager, Turner Broadcasting System Inc.

Sarah Thompson—Critical Care Registered Nurse, Children’s Healthcare of Atlanta

Athena Walker—Quality Assurance Manager, Grady Health System

Nathaniel Ziolk—Data Analyst, Hemophilia of Georgia Center for Bleeding and Clotting Disorders of Emory

MSHMI Alumni Cohort 4

Deborah Adedeji—Pharmacist,, Walmart

Emmanuel Adeyemi—Pathology Lab Manager, Marietta Dermatology & Skin Cancer Center

Temitope Balogun—Store Manager, Kohl’s

Anastassia Cabrera—Operations Specialist, CRH Anesthesia

Kennedy Craig—IT Coordinator, Aveanna Healthcare

Ijeoma Ikedum—Medical Provider

Tanesha Jones—PhD Candidate, University of Washington

Rahab Kairu—Staff Accountant, North America Transport INC

Chelsey King—Nurse Medical Management, Anthem

Brandon Lade—Interoperability Application Analyst, WellStar Health System

Akasha Lawrence—Human Resource Representative, WellStar Health System

Roxanna Lopez—Graduate, MSHMI

Emily Mantooth—Coordinator Physician Based Programs & VBC, Northside Hospital

Lorna Migiro—Graduate, MSHMI

Bernice Ndungu—SPOC Supervisor, DeKalb County Board of Health

Chineze Okpala—HR Coordinator, Divine Touch

Alina Panjwani—Data Warehouse Developer, Salient Management Company

Rodney Brown Sr.—Sales Consultant, Talent Innovation, AMS

Sri Varun Thalla—Project Manager, Cognizant

Monica Vickery—Lead Rehabilitation Aide, WellStar Health Systems

Jacqueline Warren—Director of Analytics, Corporate Health Partners

Kara Wright—Patient Access Supervisor, WellStar Health System

MSHMI Alumni Cohort 5

Yesake Abaye—Oncology Pharmacist, Northside Hospital Cancer Institute
 Reshard Abrams—MSHMI Candidate
 Glenice Arnett—Associate Application Analyst, WellStar Health System
 Humera Asfandiyar—Graduate Teaching Assistant, Kennesaw State University
 Desmond Ayika—Data Analyst, Dornier MedTech
 Megan Bove—Registered Dental Hygienist, Michele R. Chartier, DDS, PC
 Lashonte Browne — Registered Respiratory Nurse
 Ann Do—Registered Respiratory Therapist, Children's Healthcare of Atlanta
 Eric Gaare—Billing Analyst, Compass Dermatopathology, Inc.
 Reddy Bhavya Gudi— Information Technology Auditor Intern, Assurant
 Talha Hashmi—PARS Fleet Logistics Specialist, PARS Vehicle Relocation and Transport
 Kimberly High—Sr. Consultant, Staff Technologist, Booz Allen Hamilton
 Jada Jackson—Human Resource Specialist-TCF Trainee, Veterans Health Administration
 Daya Kansagra—Data Analytics Intern, Assurant

Brandon Kenemer—Public Health Analyst, Centers for Disease Control and Prevention
 Pooja Mistry—Registered Nurse, WellStar Health System
 Nicole Molinary—Information Technology Intern, WellStar Health System
 Marquis Morgan—Ops Manager, Hub/Linehaul, FedEx Ground
 Neelam Nosheen—Healthcare Product Manager, Ophthalytics, LLC
 Emmanuel Orekoya—JR Financial Analyst, Endeavor
 Michelle Padelford—Data Analyst, Partners Cooperative
 Janna Pruiett—Senior Technical Support Engineer, VMware
 Helen Schoening—Registered Respiratory Therapist, Piedmont Helathcare
 Lee Solomon—Epic Analyst, Emory Healthcare
 Beana Stone—Associate Account Executive, E Squared Communications
 Oana Tudorache—MSHMI Candidate
 Usen Usen—MSHMI Candidate
 Shakaria Wilson—Implementation Specialist, Meditech

MSHMI Alumni Cohort 6

Ziyah Anderson—Intake Specialist, Attento Counseling Practice
 Brandii Baugh—TeleSitter Supervisor, Wellstar Health System
 Cameron Broadnax—Data Entry Processor, Wellstar Health System
 Christopher Burgess—Clinical Informatics Specialist, Wellstar Health System
 Hansa Das—Graduate Research Assistant, KSU
 Clarette Epps—Data Reporting and Analytics Consultant, Kaiser Permanente
 Mark Greenberg—Care Resource Coordinator, Kaila and Solomon Law Group, LLC
 Jazmyne Griffin—Medical Case Manager, Cherokee Funding
 Bryana Higginbotham—Medical Records Coordinator, Kaila and Solomon Law Group, LLC
 Poornima Shahitha Katragadda—MSHMI Candidate
 Mikaela Keith—Business Data Analyst, KSU
 Miriam (Mele) Kwon—Registered Nurse, Emory Healthcare
 Jaclyn Maney—BoltCare Communications Manager, Bolt Today
 Joli Miracle—Senior Nurse Case Manager, US Army, TAMC Soldier Recovery Unit
 Lisero Mugula—Graduate Research Assistant, KSU

Farah Muttardy—MSHMI Candidate
 Nicole Ogbuagu—Public Health Advisor, Center for Disease Control and Prevention
 Richard Ogniewski—MSHMI Candidate
 Arleen Joy Patinga—Patient Services Specialist, Resurgens Orthopaedics
 Jovelle Patterson—MSHMI Candidate
 Melissa Rivera—MSHMI Candidate
 Tyler Simon—MSHMI Candidate
 Marci Sparrow—Medical Case Manager, Paradigm
 Elie Tannouri—MSHMI Candidate
 Bonnie Theresias—Practice Manager, Wellstar Health System
 Riley Tucker—MSHMI Candidate
 Ashana Vaudreuil—Digital Specialist, UnitedHealth Group
 Janice Wallar—Registered Nurse, Atlanta Interventional Institute
 Jasmine Williams—MSHMI Candidate

