

# Karan S. Shah, MD, MMHC, FACEP

## Preferred Address:

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## Permanent Address:

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## EDUCATION

<b>University of South Florida (Morsani College of Medicine)</b> , Tampa, Florida	December 2024
Candidate for Master of Science in Healthcare Informatics	
<b>Vanderbilt Medical Center</b> , Nashville, Tennessee	July 2019
Hospital & Clinic Administrative Fellowship	
<b>Vanderbilt University (Owen School of Management)</b> , Nashville, Tennessee	September 2018
Master of Management in Health Care (MMHC)	
<b>Vanderbilt Medical Center</b> , Nashville, Tennessee	July 2017
Emergency Medicine Residency	
<b>Wake Forest University School of Medicine</b> , Winston-Salem, North Carolina	May 2014
Doctor of Medicine	
<b>Bucknell University</b> , Lewisburg, Pennsylvania	
Bachelor of Science and Arts	January 2010
Major: Biology with Honors and Religion	
<b>Pine Grove Area High School</b> , Pine Grove, Pennsylvania	June 2006

## EMERGENCY MEDICINE EXPERIENCE

<b>Assistant Professor (Gratis), University of Louisville</b>	2021-Current
<ul style="list-style-type: none"><li>Gave lectures on various emergency medicine topics to emergency residents</li></ul>	
<b>Louisville Emergency Medicine Associate Staff Physician, Baptist Hospital – Louisville</b>	2020-Current
<ul style="list-style-type: none"><li>Developed brand-new observation unit for the hospital</li><li>Worked on reducing hospital mortality and improve quality metrics when it comes to patient care</li><li>Worked in the emergency department as a staff physician</li></ul>	
<b>Assistant Professor, Indiana University School of Medicine</b>	2019-August 2020
<ul style="list-style-type: none"><li>Worked clinically as a faculty member at Methodist Hospital overseeing the residents</li><li>Worked as the Director of Business Operations and Strategy for the department</li></ul>	
<b>Assistant Professor, Vanderbilt Medical Center</b>	2018-2019
<ul style="list-style-type: none"><li>Worked clinically as a faculty member at Vanderbilt Emergency room overseeing the residents</li><li>Worked with Hospital CEO, Hospital COO, and Chiefs of Staff to learn administration</li></ul>	
<b>Chief Resident/Clinical Instructor, Vanderbilt Medical Center</b>	2017-2018
<ul style="list-style-type: none"><li>Worked clinically as faculty member at Vanderbilt Emergency Room overseeing the residents</li><li>Helped with resident education and career development</li><li>Helped create a work schedule for 39 residents</li><li>Interviewed new residency candidates</li><li>Created a resident scholarship to help provide funding for travel for residents</li></ul>	
<b>Moonlighting Emergency Medicine Physician, Cookeville Regional Medical Center</b>	2016-2017
<ul style="list-style-type: none"><li>Worked 2 shifts a month at Cookeville Regional Medical Center as a staff physician during residency</li></ul>	
<b>Moonlighting Emergency Medicine Physician, Vanderbilt Medical Center</b>	2016-2017
<ul style="list-style-type: none"><li>Worked 1-2 shifts a month at Vanderbilt Medical Center during residency</li></ul>	
<b>Vanderbilt Emergency Medicine Resident Physician, Vanderbilt Medical Center</b>	2014-2017
<ul style="list-style-type: none"><li>Worked clinically at Vanderbilt Medical Center as a resident</li><li>Gained the skills necessary to become a successful emergency medicine resident</li><li>Taught residents and medical students under me about emergency medicine</li></ul>	

## ADMINISTRATION EXPERIENCE

<b>Vice President – Physician Integration, Baptist Louisville</b>	2022-Current
<ul style="list-style-type: none"><li>Leads strategic and operational development of value-based strategy throughout the Market</li><li>Facilitates development of the regional chapter of the CIN in collaboration with senior leadership, medical staff and System CIN leadership</li><li>Develops new business strategies to enhance market share and improve overall performance and achieve levels of excellence through the ambulatory care strategy for the market (<b>Developed a new outpatient palliative care clinic</b>)</li><li>Leads development of innovative care delivery models and care management structures across the market. Leads the development of a new care model that effectively integrates care across the full continuum to fully utilize all available system resources to ensure superior coordination and outcomes, while addressing the entire patient journey rather than an episode of care</li></ul>	

<ul style="list-style-type: none"> <li>• Collaborates with BHMG in the strategic planning, recruitment, orientation and efficient management of specialty practices within the Louisville market</li> <li>• Participates as a team member or leader of teams and councils to ensure innovative interventions, practice advancements and monitoring of quality, medical care within the realm of physician specialty practice. Ensures that interdisciplinary team members are included in the process and that interventions are based on data using principles of high reliability</li> <li>• Supports the Outcomes staff in the review, analysis and presentation of data supporting quality patient care including in the areas of surgical care and specialty care. Collaborates with the Executive Quality Council, Medical Executive Committee, Peer Review or the Physician Quality Council. Participates in the Executive Quality Council and the Physician Quality Council as a member</li> <li>• Develops business proposals and supports contracting of physicians for specialty services as identified by the organization as a need. Ensures monitoring is in place to oversee outcomes and quality metrics</li> <li>• Serves as mentor and coach to physicians and medical staff leaders as needed in collaboration with the CMO</li> <li>• Collaborates with the Presidents on the strategic vision including fostering and cultivating stakeholder relationships on city, state and national levels, as well as assisting in the development and negotiation of contracts</li> <li>• Leads in developing awareness of and strategy for achieving triple-aim success in increased access, improved delivery quality and lowering costs to be a low cost, high performing delivery system</li> <li>• Participates in the annual operating and capital budget process providing input regarding the budgets of medical affairs, clinical quality and program and facility development to support specialty physician practice</li> <li>• Provides administrative supervision and leadership to assigned departments and services (<b>nursing, case management &amp; bed board</b>)</li> </ul>	
<b>Lead Physician for the Transfer Center</b>	2022-Current
<ul style="list-style-type: none"> <li>• System physician leader for Transfer Center</li> <li>• Worked on QI and any physician issues related to the transfer center</li> <li>• Provided guidance for development of new transfer center</li> </ul>	
<b>Lead System Physician Advisor for Utilization Management (UM), Baptist System</b>	2021-Current
<ul style="list-style-type: none"> <li>• Report directly to the hospital CMOs and system Chief Integration Officer</li> <li>• Strategized to create an internal UM physician advisor program for 9 different hospitals</li> <li>• Recruited and trained new UM physician advisors</li> <li>• Worked with Managed Care Organizations to improve the system UM process</li> <li>• Working on standardizing UM training for physician advisors</li> <li>• Working with CDI to improve documentation concurrently</li> <li>• Worked closely with system case management leadership to develop a standardized UM escalation process</li> <li>• Responsible for \$8.8 million dollars and 6.9 physician FTEs</li> <li>• Worked closely with system Chief Financial Officer to get the budget approved for the new program</li> <li>• Worked closely with system AVP for post-acute to get patients appropriately placed post hospitalization</li> <li>• Worked with legal and contract management to better understand payer contracts and helped with payer contracting</li> <li>• Developed a partnership with payer physician leaders to address any system related UM issues</li> <li>• Worked with revenue cycle and denials management to overturn high dollar denied cases</li> </ul>	
<b>Medical Director of Utilization Management (UM), Baptist Louisville</b>	2021-Current
<ul style="list-style-type: none"> <li>• Completing daily reviews for UM staff to ensure appropriate status</li> <li>• Creating an EPIC documentation template for other utilization advisors in the Baptist system</li> <li>• Completing all the peer-to-peer calls to overturn insurance denials for Baptist Louisville</li> <li>• Completing continued stay reviews for UM staff to ensure appropriate status</li> <li>• Tasked with creating a team of physician UM advisors</li> </ul>	
<b>Director of Process Improvement, Baptist Louisville</b>	2020-2022
<ul style="list-style-type: none"> <li>• Tasked with improving sepsis mortality, readmission, and compliance with CMS sepsis bundle</li> <li>• Designing a hospital wide palliative/hospice process to reduce overall hospital mortality</li> <li>• Helping redesign the flow in the ED with the ED medical Director and CNO</li> <li>• Helping with overall length of stay for the hospital by revamping the hospital LOS committee</li> <li>• Implemented a Team S process in the emergency department and ICU</li> </ul>	
<b>Medical Director of Observation Unit, Baptist Louisville</b>	2020-2022
<ul style="list-style-type: none"> <li>• Created a new observation unit for Baptist Hospital in Louisville</li> <li>• Worked on creating a metrics dashboard for the observation unit</li> <li>• Addressed the operational issues associated with starting a new observation unit</li> <li>• Created protocols after working with specialists that will be used by midlevel providers to take care of patients</li> <li>• Worked with CIT and IT team to ensure IT needs of the observation unit are met</li> <li>• Managed 16 physicians and 7 advance practice providers</li> </ul>	
<b>Director of Business Operations and Strategy, Indiana University</b>	2019-2020
<ul style="list-style-type: none"> <li>• Worked on creating proposals to help win department contracts</li> <li>• Created metrics to help track operations and revenue</li> <li>• Worked on creating overall strategy for the department that was in charge of 11 different departments</li> <li>• Helped improve patient satisfaction scores by creating a proposal and physician score cards</li> </ul>	
<b>Hospital and Clinic Administration Fellow, Vanderbilt Medical Center</b>	2018-2019

<ul style="list-style-type: none"> <li>• Worked with senior leadership at Vanderbilt Adult Hospital to help improve operations</li> <li>• Assisted the hospital COO and CEO in daily activities</li> <li>• Achieved better understanding of hospital financials, revenue cycle, and strategy</li> <li>• Assisted the Chief of Staff on hospital wide projects and worked on improving efficiency</li> <li>• Tasked with generating revenue for the hospital</li> <li>• Assigned three major projects to work on: value bundles, reducing mortality rate</li> </ul>	
<b>Utilization Management Physician Advisor, Vanderbilt Medical Center</b>	2018-2019
<ul style="list-style-type: none"> <li>• Served as a physician advisor for VUMC utilization management</li> <li>• Helped determine inpatient vs observation status for patients</li> </ul>	
<b>Reducing Hospital Mortality, Vanderbilt Medical Center</b>	2018-2019
<ul style="list-style-type: none"> <li>• Worked on decreasing overall hospital mortality</li> <li>• Coordinated with palliative care to make sure all physicians were trained to have palliative talk</li> </ul>	
<b>Value Bundles, Vanderbilt Medical Center</b>	2018-2019
<ul style="list-style-type: none"> <li>• Worked with different areas in the hospital to reduce cost by increasing efficiency</li> </ul>	
<b>Length of Stay Reduction, Vanderbilt Medical Center</b>	2018-2019
<ul style="list-style-type: none"> <li>• Worked with transition management office to reduce hospital length of stay</li> <li>• Worked with Chief of Staff and COO on decreasing length of stay</li> </ul>	
<b>Administrator Emergency Medicine, Vanderbilt Medical Center</b>	2018-2019
<ul style="list-style-type: none"> <li>• Attending weekly meetings with physician leadership, nursing leadership, pharmacy, and case manager</li> <li>• Worked on improving emergency department operations</li> <li>• Created projects that helped generate revenue for the department</li> <li>• Created creative solutions to improve overall emergency throughput</li> </ul>	
<b>Emergency Observation Unit, Vanderbilt Medical Center</b>	2018-2019
<ul style="list-style-type: none"> <li>• Currently working on creating an emergency department observation unit</li> <li>• Working through financials to see the feasibility</li> <li>• Working with compliance to make sure the project meets all the compliance criteria</li> <li>• Working with EPIC build team to help develop software solutions needed for the Observation Unit</li> </ul>	
<b>Pressors through Peripheral IV Protocol, Vanderbilt Medical Center Emergency Department</b>	2018
<ul style="list-style-type: none"> <li>• Helped create a protocol for usage of pressors through peripheral IV</li> <li>• Worked with pharmacists and other MDs on this project</li> <li>• Made sure the protocol was in compliance with MICU at Vanderbilt Medical Center</li> </ul>	
<b>Severe Sepsis Bundle Protocol, Vanderbilt Medical Center Emergency Department</b>	2018
<ul style="list-style-type: none"> <li>• Helped create a protocol for severe sepsis to make sure it was in compliance with CMS</li> </ul>	
<b>Conscious Sedation Protocol, Vanderbilt Medical Center Emergency Department</b>	2018
<ul style="list-style-type: none"> <li>• Helped create a departmental policy for conscious sedation</li> <li>• Helped implement the policy in the department</li> <li>• Had over 95% compliance of policy on post implementation</li> </ul>	
<b>Mid-Track Clinic, Vanderbilt Medical Center Emergency Department</b>	2017-2019
<ul style="list-style-type: none"> <li>• Helped create a fast track clinic in the department of emergency room</li> <li>• Showed the financial benefits of the fast track</li> <li>• Helped with daily operations of the clinic</li> </ul>	
<b>Ultrasound Faculty Bonus, Vanderbilt Medical Center Emergency Department</b>	2017
<ul style="list-style-type: none"> <li>• Helped analyze the financial benefit of ultrasound in the department</li> <li>• Helped create an incentive model for faculty in the department of emergency medicine</li> </ul>	
<b>Hypertension Protocol for Asymptomatic Patients, Vanderbilt Medical Center Emergency Department</b>	2016
<ul style="list-style-type: none"> <li>• Helped create a protocol for asymptomatic hypertensive patients that were discharged from ED</li> </ul>	

## AWARDS

### Fellow of American College of Emergency Physicians (FACEP)

- Achieved the fellow status for contributions in emergency medicine

### 2022 Kentucky Hospital Association (KHA) Annual Quality Award for Acute Hospitals > 250 beds

- Sepsis Process Improvement Project that was led by me won the statewide hospital award

### Kevin D. Rogers Excellence in Clinical Teaching Award

- Presented to a faculty member that has demonstrated outstanding clinical teaching to the residents

### Dean's Excellency Award

- Presented to candidate(s) that has the highest GPA in the MMHC program

### Ian Jones Chief Resident Award

- Presented to a resident that has shown exceptional dedication to the emergency residency program and department

### SUMS Scholarship

- Need and merit based monetary scholarship for medical school

### Charles A. Strickland Scholars

- Need and merit based monetary scholarship for medical school

### B. H. Hansen Memorial Scholarship

- Endowed scholarship on behalf of the former chair of the vascular surgery
- Wake Forest Medical Scholarship**
- Need and merit based monetary scholarship for medical school
- Early Assurance Program Wake Forest School of Medicine**
- Early acceptance to medical school for extremely talented undergraduate student
- 2010 Class Award of Excellence**
- Recognized for my overall academic and extra curriculum performance
- Walter M. and Florence K. Davis Prize**
- The prize is awarded to outstanding senior graduating in religion
- John Dunlop Commitment to Excellence**
- Highest Award for a Bucknell Undergraduate Greek who through their leadership, service, scholarship, campus and community involvements have exemplified the ideals and values of fraternity and sorority life and the mission of Bucknell University
- Bison Award for Excellence in Co-Curricular Activities**
- Given to students that demonstrate a commitment to the university outside the class
- 2010 President Recognition Award**
- Recognized for serving as the InterFraternity President at Bucknell University
- Recipient of President's Distinguished Academic Achievement**
- Recognized for academic achievements by Bucknell University's president
- Recognized Gates Millennium Scholar**
- Academic and Need Based Scholarship given to racially diverse, underprivileged students
  - Highly competitive academic scholarship selecting 1,000 students from 50,000 applicants
- Recognized Valedictorian**
- Graduated at the top of my high school class in 2006

## EXPERIENCE

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|---|-------------|
| <b>Research, Department of Emergency Medicine, Vanderbilt Medical Center</b>  | 2015        |
| <ul style="list-style-type: none"> <li>• Looking at impact of ACA and emergency room visits across the nation</li> <li>• Data collection and working on paper writing for this project</li> </ul>   |             |
| <b>Research, Department of Emergency Medicine, Wake Forest School of Medicine</b>   | 2012-2014   |
| <ul style="list-style-type: none"> <li>• PARS database reviewed to investigate reasons behind complaints against EM providers</li> <li>• RIVUR database was used to determine effects of TMP/SMX on kidney function of children</li> </ul>  |             |
| <b>Research Internship, Kosair's Childrens Pediatric Unit, University of Louisville Medical School</b>  | Summer 2012 |
| <ul style="list-style-type: none"> <li>• Data collection for Type 1 Diabetic drug, immunomodulator</li> <li>• Worked on a paper involving using tPA for blocked IVs in neonate population</li> <li>• Collected and analyzed data for an enzyme that can prolong life for children with Pompe's disease</li> </ul>                   |             |
| <b>Research Internship, Department of Physiology, University of Louisville Medical School</b>   | Spring 2010 |
| <ul style="list-style-type: none"> <li>• Worked with cell tissue culture to test the effects of curcumin</li> <li>• Looked at effects of curcumin on mice that were had ischemic strokes</li> <li>• Tried to get a cochlea hearing experiment started in mice that had strokes</li> </ul>   |             |
| <b>Undergraduate Research, Department of Biology, Bucknell University</b>   | 2007-2010   |
| <ul style="list-style-type: none"> <li>• Developed a successful technique to do in-situ hybridization on bee brains</li> <li>• Discovered the precise location of DWV virus infection in the bees' brains</li> </ul>  |             |
| <b>Summer Research Opportunities Program (SROP), Wake Forest University School of Medicine</b>  | Summer 2009 |
| <ul style="list-style-type: none"> <li>• Constructed a fusion protein with firefly and gaussia luciferase and Mcl-1</li> <li>• Transfected cells with fusion proteins and monitored levels of Mcl-1 in LNCap and Hela cells</li> <li>• Developed a non-invasive way to monitor Mcl-1 levels using Bioluminescent imaging</li> </ul> |             |
| <b>Research Internship, Department of Physiology, University of Louisville Medical School</b>   | Summer 2008 |
| <ul style="list-style-type: none"> <li>• Cloned cystathionine gamma lyase gene and made a construct</li> <li>• Sectioned for other post doctorates</li> </ul>   |             |

## PUBLICATIONS AND PRESENTATIONS

- Monarch, S and **Shah, K.** Implementing a Novel Team "S" Protocol in the Emergency Department. (2022). *A Day for Infection Preventionists Conference*, Louisville, KY (Podium presentation, November 4, 2022).
- Powell, A., **Shah, K.**, Darwin, C., Odle, T., Payne, D., Freudenberger, C., Davis, T., Ritchie, D., Caldwell, R., Higdon, K., Leiterman, G., Clark, P. (2022). Design process of a novel, emergency-department managed observation unit that efficiently delivers high quality care to observation patients. *2022 Baptist Excels Roundtable: A Forum for Safety, Quality, and Patient Experience Innovation*, Elizabethtown, KY. (Podium presentation, August 11, 2022).
- Monarch, S., Laureano, M.A., Banks, B., Randolph, S., Luckett, E., Webb, M., Clark, P., Davis, T., **Shah, K.** (2022). Evidence-based standardized protocol developed identifying patients with severe sepsis and/or septic shock to decrease ED door-to-antibiotics and improve CMS bundle compliance. *2022 Baptist Excels Roundtable: A Forum for Safety, Quality, and Patient Experience Innovation*, Elizabethtown, KY. (Poster presentation, August 11, 2022).

- Monarch, S., Laureano, M.A., Banks, B., Randolph, S., Luckett, E., Webb, M., Davis, T., Clark, P., **Shah, K.** (2022). Implementing a novel Team S protocol in the emergency department to reduce door to antibiotics time. *Kentucky Hospital Association Annual Quality Conference*, Lexington, KY (Poster Presentation, March 9, 2022).
- **Shah, K.**, Davis, T., Hofmann, R., Dickerson, G., Higdon, K., Anderson, D., Randolph, S., Clark, P. (2021). Inpatient Palliative Care Referrals Initiative in the Emergency Department (ED) for High-Risk Patients. Baptist Health Excels Roundtable, Virtual, (Poster Presentation, August 15, 2021).
- Lacy A, Garcia AJ, Nestor KA, **Shah KS.** 2021. Abdominal pain after colonoscopy – A case report. *Visual Journal of Emergency Medicine*. Vol 25: 101136.
- Lacy AJ, Freeman CL, Devin R, Bess A, **Shah KS**, Smith AT. 2020. Spontaneous Isolated Celiac Artery Dissection. *Clinical Practice and Cases in Emergency Medicine*. Vol 4, Issues 3: 414-416.
- D'Alessandro AD, Sikon JR, Lacy AJ, **Shah KS**, Smith AT. 2020. Vitriolage by Sulfuric Acid: Unique Challenges and Considerations in Patient Resuscitation. Vol 59, Issue 4: 123-126.
- Murphy LS, Lacy AJ, Smith AT, **Shah KS.** 2020. Cryptococcal Meningitis in an Immunocompetent Patient. *American Journal of Emergency Medicine*. Vol 20, Issue 11:2492e1- 2492e3.
- Bermudez E, Binion T, **Shah KS.** 2020. Deep T-wave inversions on ECG associated with increased intracranial pressure. *Visual Journal of Emergency Medicine*. Vol 20: 100698.
- Krumsick Z, Bongartz T, Miller N, **Shah KS.** 2020. Do wireless ear phones need to be removed emergently once swallowed?. *Visual Journal of Emergency Medicine*. Vol 20.
- D'Alessandro AD, Smith AT, Binion TW, **Shah KS.** 2019. Runner with Abdominal Pain. *Annals of Emergency Medicine*. Vol 74, Issue 4: 491.
- Freeman CL, Bales BD, **Shah KS.** 2019. Painful Unilateral Vision Loss. Photo Competition at American Academy of Emergency Medicine. Las Vegas, NV.
- Lacy AJ, Halsey-Nichols RM, Freeman CL, **Shah KS.** 2019. Skin Manifestations and Lab Abnormalities of Familial Hypertriglyceridemia. *Visual Journal of Emergency Medicine* 15.
- **Shah KS**, Freeman CL, Norman, J, Slovis C, Russ S, Jones I, Sims M, Sims M, Wulliman K, Yiadom M, Barrett T. Vertical Transition Unit to Reduce the Number of Patients who Leave without Being Seen (LWBS). Abstract at 2018 National Conference Clinical Operations: Patient Flow to Population Health
- Melton M, **Shah KS**, Smith A, Hailey C. 2019. Obstructed Hiatal Hernia Causing Extrapericardial Tamponade. *Visual Journal of Emergency Medicine*. 14:28-29
- Trommeter R, Freeman CL, **Shah KS**, McKinzie J, Smith A. 2019. Hypothenar Hammer Syndrome. *Journal of Emergency Medicine* 56: 105-106.
- Payne S, Clemens E, **Shah KS.** 2018. Optimizing the Electronic Track Board to Improve ED Room Turnover. Medical Student Quality Improvement Project Poster Symposium, Nashville, TN.
- **Shah KS.** 2018. Gastrointestinal Review. Resident Education Lecture (In-Service Review), Nashville, TN.
- **Shah KS.** 2017. Recognition and Treatment of Leukemias in the ED. Resident Education Lecture, Nashville, TN.
- Branson S, **Shah KS**, Yan Y, Kurup S. 2015. Dermatoses and Uveitis. Presentation at National Institutes of Health
- **Shah KS.** 2015. Unstable Cervical Spine Injuries Jeopardy. Resident Education Lecture, Nashville, TN.
- **Shah KS**, Evans EC, Pizzorno MC. 2009. Localization of Deformed Wing Virus (DWV) in the brains of honeybee, *Apis mellifera* L. *Virology Journal* 6: 182.
- Utpal S, Basu P, Abe OA, Givvimani S, Tyagi N, Metreveli N, **Shah KS**, Passmore JC, Tyagi SC. 2009. Hydrogen sulfide ameliorates hyperhomocysteinemia-associated chronic renal failure. *Am J Physiol Renal Physiol* 297(2):F410-F419.
- **Shah KS**, Yancey D, Hassan S, Karpova Y, Baurin V, Kulik G. 2009. Monitoring levels of Mcl-1 by Bioluminescent Imaging. Poster session presented at the Summer Poster Symposium, Winston-Salem, NC.
- **Shah KS**, Capaldi EC, Pizzorno MC. 2008. Localization of the Genome of Deformed Wing Virus (DWV) in the Brains of Honeybees. Oral presentation at the Allegheny Branch American Society for Microbiology, Lewisburg, PA.
- Pizzorno MC, **Shah KS**, Capaldi EC. 2008. Localization of the Genome of deformed wing virus (DWV) in the brains of honeybees. Oral presentation at the American Society for Virology, Ithaca, NY.
- **Shah KS**, Capaldi EC, Pizzorno MC. 2008. Relationship between Honeybees, DWV, and CCD. Oral presentation at Kalamian Symposium, Lewisburg, PA.
- Capaldi EC, Pizzorno MC, **Shah KS**, Ndukwe N. 2007. Relationship between DWV and behavior in Honeybees. Oral presentation at Penn State College of Agricultural Sciences, Unityville, PA.

## LEADERSHIP POSITIONS

- |   |              |
|---|--------------|
| <b>Commissioner, Human Relations Commission Advocacy Board</b>  | 2021-Current |
| <ul style="list-style-type: none"> <li>• Appointed to serve on the board by the mayor of Louisville</li> <li>• Helped promote and secure mutual understanding and respect among all economic, social, religious, ethnic, and social groups in the metropolitan area</li> <li>• Acted as conciliator in controversies involving intergroup and interracial relations.</li> </ul> |              |
| <b>Kentucky Hospital Association (KHA) Sepsis Consortium for Ohio Valley District</b>   | 2021-Current |
| <ul style="list-style-type: none"> <li>• Served as an expert on the consortium for the region</li> <li>• Advised about sepsis related care issues</li> </ul>  |              |
| <b>Medical Reimbursement Committee Chair, KACEP</b>   | 2021-Current |
| <ul style="list-style-type: none"> <li>• Updated the board of directors and other KY ACEP members of reimbursement changes in emergency medicine</li> </ul>   |              |

<b>Systems Physician Advisor for Utilization Management (UM), Baptist System</b>	2021-Current
<ul style="list-style-type: none"> <li>Started a new internal UM PA program for 9 different hospitals in the system</li> <li>Worked closely with case management at each of the hospitals to standardize the UM escalation process</li> <li>Helped educate providers on UM rules</li> </ul>	
<b>Director of Observation Unit/Director of Process Improvement, Baptist Louisville</b>	2020 – Current
<ul style="list-style-type: none"> <li>Created a new observation unit for Baptist Hospital in Louisville</li> <li>Worked on improving hospital quality metrics with the team and physicians</li> <li>Worked on operation metrics for the hospital by reporting to the COO</li> </ul>	
<b>Director of Business Operations and Strategy, Indiana University</b>	2019-2020
<ul style="list-style-type: none"> <li>Worked on creating overall strategy for multiple emergency departments</li> <li>Created metrics that could be used to monitor overall daily and monthly operations</li> <li>Helped create proposal to get emergency department contracts</li> <li>Worked with revenue cycle to reduce denials and improve collections</li> <li>Helped make clinical operations much more efficient</li> </ul>	
<b>Administrative Fellow, Vanderbilt Medical Center</b>	2018-2019
<ul style="list-style-type: none"> <li>Helped Create this position at Vanderbilt Medical Center and secured funding from hospital</li> <li>Worked daily with Chief of Staff, COO, and CEO of VUMC Adult Enterprise</li> <li>Worked on three main projects: value bundles, reducing length of stay, and reducing hospital mortality</li> <li>Learned the inner workings of a major academic medical center</li> </ul>	
<b>Chief Resident Emergency Medicine, Vanderbilt Medical Center</b>	2017-2018
<ul style="list-style-type: none"> <li>Organized a schedule for 39 residents</li> <li>Helped the residents with day to day problems/issues</li> <li>Helped mentor the residents</li> <li>Helped with resident education and medical school education</li> </ul>	
<b>Epic Peer Trainer, Vanderbilt Medical Center</b>	2017- 2018
<ul style="list-style-type: none"> <li>Helping with the Epic roll out at Vanderbilt</li> <li>Helping train other faculty members and residents on Epic</li> </ul>	
<b>Resident Representative, Medical Director's Meeting, Vanderbilt Medical Center</b>	2016-2017
<ul style="list-style-type: none"> <li>Worked with various medical directors from different departments to help improve resident problems</li> </ul>	
<b>Resident Representative, Graduate Medical Education, Vanderbilt Medical Center</b>	2016-2017
<ul style="list-style-type: none"> <li>Brought forward issues facing the residents to the program directors</li> <li>Worked on solutions to help the residents</li> </ul>	
<b>Board Member, Medical Center Medical Board, Vanderbilt Medical Center</b>	2016-2017
<ul style="list-style-type: none"> <li>Represented the resident interest on the hospital wide board</li> <li>Helped create policies affecting the entire hospital</li> </ul>	
<b>Board Member, Vanderbilt Medical Alumni Association</b>	2016-2017
<ul style="list-style-type: none"> <li>Represented the residents on the board</li> </ul>	
<b>House Staff Advisory Council Co-Chair, Vanderbilt Medical Center</b>	2016-2017
<ul style="list-style-type: none"> <li>Served as the chair of the hospital wide committee to help solve resident issues</li> <li>Worked on creating a free gym membership for all the residents</li> <li>Helped improve financial understanding amongst residents by creating a lecture series</li> <li>Worked closely with the Dean of Graduate Medical Education</li> </ul>	
<b>House Staff Advisory Council Member, Vanderbilt Medical Center</b>	2015-2016
<ul style="list-style-type: none"> <li>Served as the emergency medicine resident representative on the house staff committee</li> <li>Helped improve issues facing the house staff</li> </ul>	
<b>EMRA Health Committee</b>	2015-2016
<ul style="list-style-type: none"> <li>Participated in EMRA Health Committee activities</li> <li>Vanderbilt's representative at EMRA's representative council</li> </ul>	
<b>Tennessee ACEP Board Member</b>	2015-2016
<ul style="list-style-type: none"> <li>Participated in board meetings for the regional chapter</li> </ul>	
<b>Dean's Ambassadors, Wake Forest School of Medicine</b>	2010-2014
<ul style="list-style-type: none"> <li>Gave tours to and answered questions from medical student applicants</li> <li>Provided feedback to admission officials on candidates</li> </ul>	
<b>Treasurer, Health Fair, Wake Forest School of Medicine</b>	2011-2012
<ul style="list-style-type: none"> <li>Helped manage funds for student organized health fair for the local community</li> <li>Collected and balanced budgets, paid bills, helped raise funds</li> </ul>	
<b>Treasurer, Internal Medicine Interest Group, Wake Forest School of Medicine</b>	2011-2012
<ul style="list-style-type: none"> <li>Raised money for the interest group to support events</li> <li>Organized and participated in monthly journal clubs</li> </ul>	
<b>President, Interfraternity Council, Bucknell University</b>	2009-2010
<ul style="list-style-type: none"> <li>Worked with 12 fraternities to ensure the university Greek System was running smoothly</li> <li>Served as liaison between the fraternities and the administration</li> <li>Organized events with over 1200 Greek members</li> </ul>	

<b>Vice President External, Lambda Chi Alpha, Bucknell University</b>	2009-2010
<ul style="list-style-type: none"> <li>• Take care of fraternity's community service hours and philanthropy</li> <li>• In charge of public relationship for Lambda Chi Alpha</li> </ul>	
<b>Community Judicial Board (CJB), Bucknell University</b>	2009-2010
<ul style="list-style-type: none"> <li>• Heard cases concerning academic dishonesty, aggressive behavior, and sexual assault</li> <li>• Worked with faculty and administrators to punish guilty students</li> </ul>	
<b>Treasurer, Lambda Chi Alpha Fraternity, Bucknell University</b>	2008-2009
<ul style="list-style-type: none"> <li>• Created a budget and savings plan for the fraternity</li> <li>• Managed the daily financial issues such as writing checks, keep bank statements</li> </ul>	
<b>Recruitment Chair, InterFraternity Council, Bucknell University</b>	2008-2009
<ul style="list-style-type: none"> <li>• Organized three recruitment events to recruit new members to the Greek System</li> <li>• Working with over 300 people to recruit and organize these recruitment events</li> </ul>	

## PROFESSIONAL MEMBERSHIP

<b>American College of Physician Advisors, ACPA</b>	2021-Current
<b>American Academy of Emergency Medicine, AAEM</b>	2014-2020
<b>American College of Emergency Physicians, ACEP</b>	2014-Current
<b>Emergency Medicine Residents Association, EMRA</b>	2014
<b>Society for Academic Emergency Medicine, SAEM</b>	2013
<b>Wake Forest Emergency Medicine Interest Group, EMIG</b>	2010
<b>Phi Beta Kappa</b>	2009
<b>Omicron Delta Kappa</b>	2009
<b>Mortar Board</b>	2009
<b>Order of Omega</b>	2009
<b>Alpha Lambda Delta</b>	2007
<b>National Honor Society</b>	2006

## CERTIFICATION/LICENSURE

Kentucky Medical License	2023
Board Certified in Emergency Medicine (ABEM)	2019
Indiana Medical License	2023
Tennessee Medical License	2018
DEA License	2025
ACLS Certified	2024
BLS Certified	2024
PALS Certified	2024
Neonatal Resuscitation Certified	2014

## LANGUAGE FLUENCY

English (Native)
Gujarati (Native)
Hindi (Native)
Spanish (Basic)