

# *CURRICULUM VITAE*

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## **PROFESSIONAL EXPERIENCE**

2020-Present Instructional Associate Professor, Department of Environmental & Occupational Health, School of Public Health, Texas A&M Health Science Center; College Station, TX (Effective 9/1/2020)

2017-Present Instructional Assistant Professor, Department of Environmental & Occupational Health, School of Public Health, Texas A&M Health Science Center; College Station, TX

2021-Present Associate Director, Texas A&M Ergonomics Center, Texas A&M Board of Regents Center; College Station, TX

2016-2021 Managing Director, Texas A&M Ergonomics Center, Texas A&M Board of Regents Center; College Station, TX

2008-2017 Assistant Professor, Department of Environmental & Occupational Health, School of (Rural) Public Health, Texas A&M Health Science Center; College Station, TX

2004-2008	NIOSH Trainee, Texas Tech University, Industrial Engineering Department; Lubbock, TX
2003-2004	Supervisor, Alliant Techsystems – Defense (ATK), Independence, MO
2001-2003	Graduate Assistant, School of Rural Public Health, Texas A&M, Center for Rural Public Health Preparedness; College Station, TX.
1999-2001	Research Tech III/Supervisor, Baylor College of Medicine, Human Genome Sequencing Center; Houston, TX

## **EDUCATION**

2008	Ph.D., Industrial Engineering Texas Tech University Lubbock, Texas
2003	M.P.H., Environmental & Occupational Health Texas A&M HSC-SRPH College Station, Texas
1999	B.S., Biomedical Sciences Texas A&M University College Station, Texas

## **TAMU Courses Taught/Teaching Philosophy:**

Impact/Philosophy Statement: My impact in the classroom is, as is true with most all faculty, a direct reflection of my teaching style. While I do perform a traditional lecture style in most classes, I often employ a mix of other teaching mechanisms to facilitate better outcomes for students with different learning styles. These are described more in-depth for the classes listed below, but I have begun to transition in recent years to a more inclusive and active learning style of classroom. I focus intermittently on all areas Bloom’s Taxonomy. Particularly in the graduate classes, where students should be analyzing and evaluating data/information rather than just the acquisition of knowledge, I include more of the high-order thinking tasks. This is reflected in my test style as well as the project for PHEO 640. My testing style is short answer where students are challenged to take the basic information they’ve learned, analyze/interpret a situation, and provide appropriate feedback. At the undergraduate level, in my online discussions for PHLT 434, I regularly ask students to interpret problems and offer their train of thought rather than just solving them. This is done with the aim of changing the way students evaluate information rather than merely providing an answer. This is also where I require feedback to be provided to their peers. This is done to help facilitate group learning and peer-to-peer teaching through a modified flipped online classroom.

I define student success as growth throughout the semester. Growth is defined to me as adaptation and a small example can be seen in success on examinations. PHEO 618, for example, is often the initial class graduate students take in our department. This class consists of

a lot of information and the testing style is often not what they're used to. That is why, after the first test, I go over the exam in class with my grading rubric to assist students in learning the right train of thought. From this, I help students develop a study plan for the second exam. In this class, as with PHLT 432 and PHEO 640, students show a significant improvement on subsequent examinations.

As with all of my courses, every semester I perform an analysis of my content, delivery methodologies, and student outcomes based on LEAN engineering principles with the aim of maximizing positive outcomes while minimizing non-value-added activities. Throughout this class list, there are a number of listed continuing improvement activities completed and planned for the future based on these evaluations.

#### PHEO 617 Occupational Assessment (MPH Elective) Summer 2009 – 2011

#### PHEO 618 Occupational Safety (Required Concentration Course) Ongoing

- Developed course in response to Industrial Advisory Board feedback on need for improved safety content.
- Developed course for inclusion in Occupational Safety & Health
- Obtained OSHA 511 and OSHA 501 General Industry Trainer Certification to be able to offer OSHA 30-hour General Industry (1910) certification to students. Reorganized course in 2013 to be able to offer 30-hour General Industry certification through course. Serving students of multiple departments through offering this certificate. Regularly have Epidemiology, Chemical Engineering, and ISEN students in addition to both disciplines of PHEO (Occupational Safety & Health and Environmental Health).
- Introduced “open book” component to aid in evaluation of student application of knowledge.

#### PHEO 620 Case Studies (Required Concentration Course) Austin, Spring 2010

#### PHEO 640 Industrial Hygiene (Required Concentration Course) Ongoing

- Implemented practical working component aspect to the course through a working agreement with TAMU EHS. Students are in charge of data collection and analysis for industrial hygiene projects across the TAMU campus. This is in response to Industrial Advisory Board and Practicum Preceptor feedback regarding students' need for more practical knowledge in the field of Industrial Hygiene.
- Restructured course in 2017 to have a project-based component. Very little content changed, but overall student outcomes have dramatically improved since the introduction of this course component.
- In 2024, restructured course content and schedule to have dedicated days to have hands-on practical knowledge with IH equipment. Students cycle through prepared stations designing sampling trains, calibrating, and calculating various theoretical concepts (such as inverse square law in sound).

#### PHEO 684 Practicum (Required Concentration Course) Summer 2010 – Ongoing

- Serve as Departmental Practicum Coordinator.
- Able to have direct contact with industrial professionals building professional contacts. This role allows for better student placement opportunities for practicum and post-graduate employment as well as gain feedback for ongoing EOH course curriculum

improvement efforts.

- Worked to implement and transition department from paper-based approval process to online Practicum Experience Management System (PEMS). This allows for more accurate tracking of core and concentration competencies being met by student activities.

PHLT 432 Human Factors and Ergonomics Safety & Health, Ongoing (Occupational Minor Required Course)

- Developed course in conjunction with development of TAMU Occupational Safety Minor (Took over course from original instructor 2018)
- Taken TAMU Teaching Excellence and TAMU Instructional Technology Services courses in active learning to better engage students. This takes the form of multiple in-class activities. These activities include: group discussions, peer-to-peer teaching,
- Summer '19 planned activities for continuous improvement includes working with TAMHSC and TAMU ITS to record podcasts with industry experts to present case studies and field studies on material to students. This will be promoted by TAMHSC as part of their 'Vital Record' podcasts and will be made available to students to help with student outcomes in the course.

PHLT 434 Project Economics, Ongoing (Online; Occupational Minor Required Course).

- Developed course in conjunction with development of TAMU Occupational Safety Minor
- Weekly assignments mimic Just-in-time-teaching (JiTT) practices of outside work and course deliverables.
- Taken multiple ongoing courses with both TAMU Center for Teaching Excellence and TAMU Instructional Technology Services for course improvement in online delivery methodologies.
- Responded to Sp. '18 feedback by adding a voluntary in-person discussion Sp. '19 One of the primary issues students had was the online presentation and not being able to ask questions. Saw overall improvement of student outcomes both in the course overall as well as week-to-week improvement in students attending regularly. This helped lead to a reduction of DFWQ rate per student even with almost doubling enrollment (30% '18; 25% '19). Next year I will be continuing with the in-person as well as adding a voluntary online discussion through Adobe Connect in an effort to help improve student outcomes.
- Responding to student feedback in Summer '19 by working with TAMU ITS to develop new video presentation modules of course problem presentation/solutions. Planned activities include Light Board recordings of problem solutions.
- Currently use best-practices of video information chunking. Each lecture is broken into multiple 6-10 minute videos to better aid in student information uptake. Made changes based on TAMU-ITS course on video production best practices.

PHLT 445: Public Health Capstone, Ongoing

PHLT 330: The Environment and Public Health: Ongoing

SOPH 600-604: Public Health Core, until 2024.

**CERTIFICATIONS/CONTINUING EDUCATION**

Texas A&M Leading Others continuing Education certificate, Summer 2023, College Station, TX

- Course delivered by TAMU Division of Human Resources and Organizational Development aimed at improving individual capacity to lead effectively within the organization

OSHA 511 – 30-hr Certification, 1910 General Industry, October 2013, Oklahoma City, OK

- To be able to offer OSHA 30-hour General Industry certificate to students in PHEO 618

OSHA 501 – Trainer Certification, 1910 General Industry, December 2013, Lafayette, LA

- To be able to offer OSHA 30-hour General Industry certificate to students in PHEO 618

OSHA 501 – Trainer Recertification, 1910 General Industry, June, 2018, San Antonio, TX.

OSHA 501 – Trainer Recertification, 1910 General Industry; June, 2022, Online TEEK

ISO 45001 (ASSP) – Safety Management Systems, August 2018, Pittsburgh, PA

- To be able to offer ISO Safety Management Systems educational components in PHEO 682 guest lectures and PHLT 432.

American Industrial Hygienist Association (AIHA) – “Fundamentals of Industrial Hygiene”, September 2019, Columbus, OH.

- Learning techniques for better hands-on in-class demonstrations of theoretical concepts to aid in student acquisition of theoretical concepts currently covered.

American Congress of Governmental Industrial Hygienists (ACGIH) – “The Ethics of Using Chat Artificial Intelligence in Industrial Hygiene”, January, 2025 – Online

- Some of this content has been incorporated into various courses, including Industrial Hygiene (PHEO 640). Students use the various AI tools and evaluate the positives and negatives of them as day-to-day tools for safety professionals.

American Congress of Governmental Industrial Hygienists (ACGIH) – “Global Understanding of Heat Stress & Heat Related Illness for Workers & Communities”, January, 2025 – Online

- This course was used to update content in PHEO 640 as to regulatory standards for heat exposure and acclimatization.

Associate Safety Professional (ASP) Professional Certification (ASP-32820) 12/20

#### TAMU CTE/ITS Courses:

Rubric development

- Used for development of better rubrics for PHEO 640 (presentation and summary

reports) and PHLT 434 (online discussion rubrics).

#### Active Learning Student Engagement

- Used for development of activities to better engage students in classroom activities

#### Applying Video Best Practices for Student Engagement

- Used for developing better online video production capacities to better engage students in PHLT 434.

#### Designing Your Course for All Learners

- Used for development of better ADA-compliant material in all of my courses

#### Promoting Integrity in the Classroom

- Used for course/syllabus redesign to remove opportunities to commit academic dishonesty. Changed course structure deliverables in PHLT 434, deliverables/project structure in PHEO 640.

### **AWARDS/HONORS**

Texas A&M Fish Camp Namesake – 2022

Texas A&M Association of Former Students Distinguished Achievement Award – 2020

Adair Organization: Advisor of the Year – 2020

Faculty & Staff Recognition Service Medallion – 2017

### **MEMBERSHIP IN PROFESSIONAL AND SCHOLARLY ORGANIZATIONS**

Delta Omega Public Health Honor Society – President elect 2025

American Society of Safety Professionals (ASSP)

Alpha Pi Mu, Industrial Engineering Honor Society

Applied Ergonomics (Institute of Industrial Engineers IIE)

### **Additional Educational Activities**

Guest Lectures:

PHEO 600 Principles of Environmental & Occupational Health (MPH Core Course) Fall 2008 – Fall 2013 (“Occupational Case Study on confined spaces and chemical exposure” & “Accident Investigation and Workers’ Compensation”)

VIBS 432 Public Health Practices (Undergraduate Elective) Fall '08 - Fall '14 (“Lockout Tagout”)

PHEO 620 Case Studies (MPH Requisite) College Station, Spring 2008, Spring 2009 (“Safety in the Meatpacking Industry”)

PHEO 655 Human Factors & Behavioral-Based Safety (MPH Requisite) Spring 2009 (“Occupational Anthropometry”)

PHEO 679 Ergonomics II (MPH Requisite) Summer 2009 (“Occupational Biomechanics of the Upper Extremity”)

PHEO 630 Occupational Diseases (MPH Requisite) Fall 2010, 2011 (“Occupational Vibration”)

PHEO 615 Environmental Assessment (MPH Requisite) Spring 2012 (“Chemistry Review”)

PHEB 626 Occupational Epidemiology (Elective) Spring 2014 (“Occupational Ergonomics”)

PHEO 678 Occupational Biomechanics (EOH Concentration) Fall 2015 (“Occupational Modeling”)

### **POSITIONS HELD IN PROFESSIONAL AND SCHOLARLY ORGANIZATIONS**

#### National/Regional Services:

National Institute for Occupational Safety and Health (NIOSH-CDC) ERC Grant Review Panelist – Chair, 2/2025

Board of Certified Safety Professionals (BCSP) Qualified Academic Program (QAP) Best Practices Committee

National Institute for Occupational Safety and Health (NIOSH-CDC) Ad-Hoc Grant Review Panelist

National Institute for Occupational Safety and Health (NIOSH-CDC) Ad-Hoc ERC Grant Review Panelist

National Safety Council (NSC) Faculty Press Advisory Board

- Editorial review of textbook chapters

ABET Program Evaluator (PEV)

UT Southwestern NIOSH ERC Grant Review Panel

Past-President, San Jacinto College Occupational Health and Safety Technology Program External Advisory Board, Pasadena, TX

IIE-Transactions on Human Factors (IIEHF) Journal Reviewer

IJERPH – Occupational Safety and Health Journal Reviewer

Mentor: Texas A&M Mentor-Up Program. This is a mentoring program through the TAMU College of Education and Human Development with the goal of mentoring students interested in higher education at Rudder High School, Bryan, TX.

Professional Service:

Applied Ergonomics Conference: Pre-Conference Session Planning Committee (Leadership as Co-Chair, 2019 - Present)

American Society of Safety Professionals (ASSP) Future Safety Leaders Conference (FSLC) planning committee (2019 - Present).

Planning Committee: Region III ASSP Student Leadership Conference. 2013, 2019, 2020

Applied Ergonomics Conference: Session Chair 19<sup>th</sup> Annual Meeting, Atlanta, GA, March 2018

Applied Ergonomics Conference: Session Chair 19<sup>th</sup> Annual Meeting, Orlando, FL, March 2017

Applied Ergonomics Conference: Session Chair 18<sup>th</sup> Annual Meeting, Orlando, FL, March 2016

Applied Ergonomics Conference: Session Chair 17<sup>th</sup> Annual Meeting, Nashville, TN, March 2015

Applied Ergonomics Conference: Session Chair 16<sup>th</sup> Annual Meeting, Dallas, TX, March 2013

Human Factors & Ergonomics Society (Healthcare Technical Group): Program Selection Committee abstract reviewer (2009-2014)

Human Factors & Ergonomics Society (Healthcare Technical Group): Student Paper Review Committee (2009-2014)

Human Factors & Ergonomics Society (Healthcare Technical Group): Session Chair, 54<sup>th</sup> Annual HFES Meeting, San Francisco, CA, September 2010

President, Texas A&M SPH Alumni Association Board of Directors. 2013- 2014

Member, Texas A&M SPH Alumni Association Board of Directors. 2013 - 2016

Human Factors & Ergonomics Society (Safety Technical Group): Session Co-Chair 57<sup>th</sup> Annual HFES Meeting, San Diego, CA, October 2013

Departmental, School, and University Service:

## Departmental BCSP QAP Coordinator

### Texas A&M Faculty Senate Representative (2021 – Present)

- Caucus Leader 2021, 2022
- Chair: Budget Information Committee (2021, 2022)
- Koldus Awards Committee (2023)
- Elections Committee (2023)
- Personnel and Welfare Committee (2025)

### Texas A&M University Budget Committee (Chaired by John Crawford, VP Finance)

- The charge for this committee is to restructure how the TAMU budget is allocated to colleges and schools.

### Texas A&M University Search Committee Associate Provost for Academic Enhancement (2024)

### Texas A&M University Provost Academic Track Teaching Excellence Award Committee (2024)

Chair – Texas A&M School of Public Health Environmental and Occupational Health (EOH)  
APT Instructional Faculty Search – San Antonio (2024)

### Texas A&M Faculty Senate – Academic Professional Track Faculty Committee (APTF) (2020 – 2022)

### Texas A&M University Scholar Application Review Panel (2019 – Present)

### Texas A&M Presidential Professor for Teaching Excellence Award Committee (2020 – Present)

NIOSH Trainee Mentor, Department of Environmental and Occupational Health, School of Public Health, College Station, TX 2010 – Present.

- Regular meetings with NIOSH Trainees to discuss practicum placement, future employment, continuing education opportunities, and professional development opportunities.

Coordinator, Departmental Practicums, Department of Environmental & Occupational Health, School of Public Health, College Station, TX 2010-Present

- Manage student practica in addition to assisting in placement efforts, resume review, and interview preparation.

### TAMU-SPH ASSP (American Society of Safety Professionals) Student Chapter Faculty Advisor 2012 – Present

- Serve to assist students in building professional networks and obtain scholarship funds. Our student chapter has annually had numerous students win national and regional scholarships from ASSP including 6 individuals winning 7 awards in 2019.

Texas A&M Honor Council Representative 2015 – Present

- Update department on best practices and implement into my own courses for minimization of TAMU Honor Code violations

Texas A&M Ergonomics Center/Center for Worker Health; Associate Director 2017 - Present

- Served as Ergonomics Center member since 2008 and assisted in Board of Regents transference of location to EOH with Dr. Mark Benden.
- Served as Ergonomics Center consultant for ergonomics and safety-related issues with industry partners.
- Assist in personnel and project management

Undergraduate Curriculum Development, Department of Environmental & Occupational Health, School of Public Health, College Station, TX

- Developed the Occupational Safety minor housed in the EOH Department in an effort to respond to industry feedback directly addressing the need for more undergraduate-educated safety personnel.

Texas A&M Dean of Faculties Distinguished Achievement Awards Selection Committee: Research Awards. Spring 2015

Texas A&M SPH Governance Committee 2015 – Present

Member, School of Public Health Doctoral Committee, School of Public Health, College Station, TX

Member, CEPH Accreditation Committee, Student Criteria, School of Public Health, College Station, TX

Member, Student Academic Grievance Committee, School of Rural Public Health, College Station, TX 2009-2012

Member, Research Activity Committee, School of Rural Public Health, College Station, TX

Faculty Reviewer, Student Departmental Enrollment Applications, Department of Environmental & Occupational Health, School of Public Health, 2012-2015

### **Presentations/Invited Lectures**

1. “Classroom AI Best Practices”, Board of Certified Safety Professionals (BCSP) Qualified Academic Program (QAP) Educational Webinar Series, (June, 2024).
2. “You have more in your toolbox than you think”, Transformational Teaching and Learning Conference (TTLC), (Spring, 2024).

3. "Using Feedback Fruits to conduct team reviews", Transformational Teaching and Learning Conference (TTLC), (Spring, 2024).
4. "Personality Pairings for Student Group Success", Transformational Teaching and Learning Conference (TTLC), (Spring, 2023).
5. "Asynchronous online just-in-time delivery: A recipe for student success", International Teaching and Learning Cooperative Lily Conference (ITLC Lily) for Evidence-Based Teaching & Learning (April, 2022)
6. "The importance of professional communication mentoring in project-based course components", Transformational Teaching and Learning Conference (TTLC), (Fall, 2019).
7. Short Course: "Control Room Design & Updates", Emerson Global Exchange, October 2018, San Antonio, TX
8. "Activity-permissive environments: The good, the bad, and the ugly." Pickens, AW; Benden, ME. ASSP Safety 2018 Conference, San Antonio, TX
9. "Mobile hearing screening: A viable option?", ASSE Safety 2016 Conference, Atlanta, GA, June 2016.
10. "Ergonomic awareness among college students". Pickens, A.\* Benden, ME., Mehta, RK., Peres, SC., Ory, MG. & Towne, S. (2016). 2016 Applied Ergonomics Conference. March 21-24, Orlando, FL.
11. "Ergonomic risk behaviors among college students" Mehta, RK. Pickens, A., Benden, ME., Peres, SC., Ory, MG. & Towne, S. (2016). 2016 Applied Ergonomics Conference. March 21-24
12. "Ergonomics for the future workforce, or are we too late?" Mehta, RK., Peres, SC., Pickens, A., Benden, ME., Ory, M. (2016). Houston HFES. Clear Lake, TX, June 3.
13. Invited Lecture "Indicators and Best Practices for Leading Indicators", Domtar Inc. International Safety Conference, October 5-6, (2015). Texarkana, TX
14. Invited Lecture: "Current Research in Safety Leading Indicators", ISNConnect Global Safety Conference, April 8-10, (2015). Dallas, TX
15. "6-Month follow-up: Comparison of sit-to-stand and stand-biased desks in a call center", Pickens, AW; Benden, ME; Kress, M. 18<sup>th</sup> annual Applied Ergonomics Conference, Nashville, TN, March 2014.
16. "Curriculum Development for HF/E Graduate Students: Lessons Learned in an Ongoing Effort to Educate and Meet Industry Demands"; Pickens AW, Benden ME. 57<sup>th</sup> HFES Conference Proceedings, September (2013), San Diego, CA.

17. “Nuggets of gold for preventing low back injuries”; Pickens, AW; Congleton, JJ., VPPAA Region VI Safety Conference, May 2013
18. “Development of the Ergonomic Tool for Assessing Posture (ETAP)” Pickens, AW; Benden ME., Applied Ergonomics Conference, Dallas, TX, March 2013
19. “Industrial Vibration”, The National Ergonomics Conference and Exposition, Las Vegas, NV, December 2012
20. Invited Lecture: “Portable EMR Devices and Their Effect on Doctor-Patient Interaction”, 27<sup>th</sup> Annual Update in Medicine Conference, Laredo, TX, October 2011
21. Invited Lecture: “Vibration Syndrome”, Chevron Corporation, Houston, TX, Fall 2010
22. “Ergonomic Evaluations: Are they worth it?” Pickens, AW; Benden ME., 13<sup>th</sup> Annual Applied Ergonomics Conference, San Antonio, TX, March 2010
23. Invited Lecture: “Ergonomics-based Safety for Supervisors”, City of Bryan, TX, September 2009.

### **Other Presentations**

1. “Pilot validation of hEAR mobile hearing screening application in the general population.” Dakuri, L., Pickens, A., Mehta, RK., Zhao, H. (2015). Poster presented at the Houston HFES. Houston, TX, May 29
2. “hEAR Mobile Hearing Screening Application”; Song S, Pickens AW. 21<sup>st</sup> Annual International Conference on Mobile Computing and Network (MobiCom), September 7-11, 2015, Paris, France. Top 5 Finalist 2015 App of the Year.
4. “Associations Between Surgeon Self-Reported Injury/Illness and Surgeon Perception as an Outcome of Performing Laparoscopy”. Poster Presentation: Miller. K., Benden, M., Pickens, A., Shipp, E., Zheng, Q.; IIE Annual Applied Ergonomics Conference in Nashville, TN, March 2012.
5. “Halloween Safety Tips”; Pickens, AW. (2011); Public Service Announcement written for and distributed by the Texas A&M HSC-SRPH for publication in regional Texas newspapers.
6. “Holiday Travel Safety”; Pickens, AW. (2011) Public Service Announcement written for and distributed by the Texas A&M HSC-SRPH for publication in regional Texas newspapers.
7. “Hand load contributions to cervical spine compressive forces”; Poster Presentation: North American Congress on Biomechanics, August 2008.

8. Poster Presentation: Texas Association of Family Physicians Annual Convention, July 2003. Title: "Patient satisfaction and ethnic differences in a family medicine center"
9. Poster Presentation: Texas Association of Family Physicians Annual Convention, July 2003. Title: "Correlation between ethnicity and overall satisfaction"

### **PEER-REVIEWED PUBLICATIONS**

Discipline guidelines usually indicate options for first author as primary with second or last author as chair if first author is student. In some cases, Chair is listed first and student second. In this case, after the student, authors are listed by contribution to the paper.

1. Salzar, T. L., Aguilar, K., Smith M. L., Pickens, A. W., Han, G., Anderson, G., & Benden, M. E. (in-press). Stand-capable workstations reduce occupational sedentary time among administrative workers. *IIE Transactions on Occupational Ergonomics and Human Factors*, (in-press).
2. Drake, S.A., Thoene, C., Foster, M., Porta, C., Pickens, A. W. (2022). Medicolegal Death Investigator Workplace Safety Hazards: A Scoping Review of the Literature. *Journal of Forensic Sciences (JFS)*, (March 2022)
3. Benden M., Mehta R., Pickens A., Harp B., Smith M.L., Towne SD Jr\*, Peres S.C. (2021). Health-related Consequences of the Type and Utilization Rates of Electronic Devices by College Students. *BMC Public Health*, November (21), <https://doi.org/10.1186/s12889-021-11975-3>
4. Johnson, W. D., Peres, S. C., Benden, M. E., Mehta, R. K., Pickens, A., Smith, M. L., ... & Johnson, M. A. (2021). Lingual and non-lingual safety training methodology effectiveness: Does language of origin impact effectiveness. *International Journal of Industrial Ergonomics*, 86, 103183.
5. Garrett, G., Zhao, H., Pickens, A.W., Mehta, R., Preston L., Powell, A., Benden, M.E. (2019). Computer-based Prompt's Impact on Postural Variability and Sit-Stand Desk Usage in a Randomized Control Trial. *Applied Ergonomics*; 79, September, 17-24.
6. Sharma, P. P., Mehta, R. K., Pickens, A., Han, G., & Benden, M. (2018). Sit-Stand Desk Software Can Now Monitor and Prompt Office Workers to Change Health Behaviors. *Human Factors*; October, 0018720818807043
7. Sharma, P. P., Mehta, R. K., Pickens, A., Han, G., & Benden, M. (2018). Quantitative evaluation of electric sit-stand desk usage: 3-Month in-situ workplace study. *IIE Transactions on Occupational Ergonomics and Human Factors*; 6(2), 76-83.
8. Towne, S.D., Ory, M.G., Smith, M.L., Peres, S.C., Pickens, A.W., Mehta, R.M., Benden, M.E.; (2017) "Correlates of physical activity in young adults in a university setting: Role

- of sociodemographic factors, technology use, and sleep.” *BCM Public Health*.
9. Pickens, A. W., Robertson, L. D., Smith, M. L., Zheng, Q., & Song, S. (2017). Headphone evaluation for app-based automated mobile hearing screening. *International Archives of Otorhinolaryngology*, (Dec 6)(ISSN 1809-9777).
  10. Pickens, A.W., Dakuri, L.V., Smith, M.L., Zhao, H, Mehta, R., Song, S. (2017) “Limitations of a mobile application for hearing screening” *The Hearing Journal*, 70(6), June, 34-37.
  11. Garrett, G., Benden, M.E., Mehta, RM, Pickens, A.W., Zhao, H (2016) “Call center productivity over 6 months following a standing desk intervention” *IIE Transactions on Occupational Ergonomics and Human Factors* 4(2-3), 188-195
  12. Pickens, A.W., Benden, M.E., Schneider, D.E., Zhao, H. (2016) “Use of stand-biased desks to reduce sedentary time in high school students: A pilot study” *International Journal of Child Health and Nutrition*, 5(2)
  13. Pickens, AW, Kress M, Benden ME, Zhao H, Wendel M, Congleton JJ. (2016) “Six-month follow-up of stand-capable desk users in a call center” *Public Health*. March, I-4.
  10. Shortz, A.E., Pickens, A.W., Zheng, Q., Mehta, R.K. (2015) “The effect of cognitive fatigue on PFC correlates of neuromuscular fatigue in older women” *Journal of NeuroEngineering and Rehabilitation* 12(1):1
  11. Miller, K. Benden, M., Shipp E., Pickens, A., Wendel, M., Pronovost, P., Watts, B. (2015) “Can we predict violent incidents? A case-control study of a mental health inpatient unit”. *Journal of Healthcare Protection Management* (In Press).
  12. Smith M.L., Pickens A.W., Ahn S., Ory, M.G., DeJoy, D.M., Young, K., Bishop, G., & Congleton, J.J. (2015). Typing performance and back discomfort among overweight and obese office workers: A pilot study of keyboard modification. *Applied Ergonomics*, 46, 30-37
  13. Paterson, C; Miller, K; Benden, M; Shipp, E; Pickens, A; Wendel, M; Pronovost, P., (2014) The Safe Day Call: Reducing Silos in Health Care Through Frontline Risk Assessment, *Joint Commission Journal on Quality and Patient Safety*, 40(10), October, pp. 476.
  14. Benden M, Pickens AW, Shipp E, Perry J, Schneider D (2013) Assessing school-based childhood obesity interventions for posture and comfort effects; *Health*, August, 5(8A3); 54-60.
  15. Miller K, Benden M, Pickens A, Shipp E, Zheng Q. (2012) Ergonomics Principles Associated With Laparoscopic Surgeon Injury/Illness; *Human Factors*, December, 54(6):1087 - 1092.

16. Benden M, Mancuso L, Zhao H, Pickens A. The Ability of the SenseWear® Armband to Assess a Change in Energy Expenditure in Children While Sitting and Standing. *JEPonline* 2011;14(3):1-14.
17. Contributing author, Human Genome Sequence and Analysis. Retrieved August 8, 2007, from the Baylor College of Medicine, Human Genome Sequencing Center Website: [http://www.hgsc.bcm.tmc.edu/Nature/no\\_managers/](http://www.hgsc.bcm.tmc.edu/Nature/no_managers/)

#### Technical Reports:

1. Finley MD, Theiss L, Ullman GL, Pickens AW, Benden M, Jenkins JM. (2017). Evaluation of Safety Practices for Short Duration Work Zones. FHWA/OH-2017-29.
2. Pickens, A., Mehta, RK., Benden, M. (2014). ExxonMobil Hand Activity Level. Technical report submitted to Exxon Mobil, February.
3. Benden, M., Pickens, AW. (2009) Evaluation Day: Measuring office ergonomics training to show impact, *Industrial Engineer*, September, 41(9); 46-49.
4. Pickens, AW. (2008). Hand load contributions to cervical spine compressive forces. Doctoral Dissertation, Texas Tech University, Lubbock, TX.

#### **RESEARCH SUPPORT AND GRANT-RELATED ACTIVITIES**

1. Co-Investigator: Texas Transportation Institute (TTI) Ergonomic evaluation of roadway barrier placement. In this project, as a subcontractor to TTI, ergonomic evaluations were performed for various temporary road barrier placement methodologies. (ErgoCenter)
2. Co-Investigator: General Motors Ergonomic Assessment. This project was a multi-year project evaluating ergonomics best practices and evaluation techniques at a General Motors facility. (ErgoCenter)
3. Co-Investigator: United States Public Health Service (USPHS) Safety Training Modernization. (Subcontracted investigator through the University of Nebraska Health Science Center). This project is aimed at modernizing the safety training protocols of first responders to catastrophic incidents including infectious diseases. (35-1209-1003-01) (ErgoCenter)
4. Co-Investigator: COVID-19 Supplement – Prevention, Preparedness, & Response (University of Texas Health Science Center at Houston). This project was aimed at mitigating transmission of COVID-19 in the general public (SA0001-1019) (ErgoCenter)
5. Co-Investigator. DHHS-CDC NIOSH Training Grant Competitive Renewal. This NIOSH-funded program is a competitive renewal of the original NIOSH Training Grant. This NIOSH-funded program is designed to deliver focused training in occupational health and safety. This training concentrates on the areas of occupational health, safety,

and ergonomics for masters-level students. (2T03OH009410-09-00)

6. Co-Principle Investigator: Contract: McInerney & Associates. “Standing workstation stool biomechanics evaluation”. This project was to evaluate the biomechanical stresses on employees for different stool designs for stand-biased workstations (ErgoCenter)
7. Co-Principle Investigator: Contract – Lauinger & Associates. “Sit/Stand 3D Rendering and Biomechanical Review”. This project was to evaluate the biomechanical stresses on employees through 3D rendering. (ErgoCenter)
8. Principle Investigator: Contract – ESI/Fellowes Inc. “Ergonomic evaluation of activity-permissive office equipment”. This project was to perform a literature search and assist in development of new training requirements. (ErgoCenter)
9. Principle Investigator. “ODOT Evaluation of Safety Practices for Short Duration Work Zones”. This ODOT funded program is a collaboration with TTI as a subcontractor for evaluation of worker safety in work zones during short duration work. The total budgeted amount is \$806,230.33 with a subcontracted amount of (ErgoCenter)
10. Co-Investigator. HollyFrontier Ergonomic evaluation and intervention development program for concrete facilities. This industry-funded project is providing support for a graduate student and the investigators for evaluation of ergonomic risk factors among operators across multiple concrete factories for HollyFrontier. (ErgoCenter)
11. Principle Investigator. NIOSH Pilot Grant. This NIOSH-funded program is a competitive pilot project through the UTHSC-ERC to study hardware optimization for data collection using a mobile hearing screening application. Supported by Training Grant T42OH008421 09
12. Co-Investigator. HAL-TLV Validation in an office setting. ExxonMobil. This study is aimed at investigating the contributing factors associated with the ACGIH Hand Activity Level (HAL) Threshold Limit Value (TLV) for office work. (ErgoCenter)
13. Investigator. 2010-Present: Texas Transportation Institute Grant. This state-funded program has worked to provide salary support for the study health and safety related research in the field of traffic/transportation safety. (ErgoCenter)
14. Principle Investigator. 2012-2013: Let’s Gel Inc. Comparative analysis of industrial-use anti-fatigue mats. This industry-funded project was designed to evaluate the effectiveness of currently available industry-specific anti-fatigue mats at reducing spinal compression and increasing sit-reach flexibility. (ErgoCenter)
15. Principle Investigator. 2012: National Oilwell Varco – Fiberglass Systems. Employee evaluation. This industry-funded project was taken with the purpose of evaluating employee exposures to chemicals, heat stress, and ergonomic hazards in a fiberglass pipe manufacturing facility in Wichita, KS. (ErgoCenter)

16. Co-Investigator. 2012: Zodiac Aerospace. “Ergonomic evaluation of business class seat for Boeing 777 & 787 aircraft.” The scope of this work was to perform ergonomic and pressure mapping evaluations of a prototype business class seat pod developed for the Boeing 777 and 787 aircraft. (ErgoCenter)
17. Co-Investigator. 2010: Sysco. Ergonomic, safety, and efficiency evaluation for North Houston warehouse workers and Houston-proper delivery drivers. This industry-funded project was designed to evaluate workers for prospective safety issues and musculoskeletal disorders and provide redesign options. (ErgoCenter)
18. Co- Investigator (Congleton, PI). NIOSH Training Grant T01OH0009410-01A1. This NIOSH-funded program is designed to deliver focused training in occupational health and safety. This training concentrates on the areas of occupational health, safety, and ergonomics for masters-level students.

**Graduate Advising:**

**MSPH Chair:**

Lakshmi Dakuri – “Evaluation of hEAR mobile application as an effective alternative to audiometry”. May 2016.

**Doctoral Chair:**

No Young You – “Developing the predictive quality of life evaluation tool of elderly based on the modality of motions and hearing loss”. August 2017

Lakshmi Dakuri – “Mobile hearing hardware evaluation, systematic review and human factors usability analysis in elementary school nurses and students”. August 2019

**Committee Member:**

Kristen Miller (MSPH, DrPH) TAMU School of Public Health  
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Drew Schneider (MSPH) TAMU School of Public Health  
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Tricia Salazar (DrPH) TAMU School of Public Health  
Linda Bridges (DrPH) TAMU School of Public Health

**Verification Signed Statement:**

This CV submitted is most current and correct as of 2/26/24