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EDUCATIONAL BACKGROUND

Board of Certified Safety Professionals – USA. Certification for Certified Safety Professional (CSP)	2016
University of North Dakota. Ph.D., Aerospace Sciences Emphases: Safety Management Systems and Human Factors	2016
University of North Dakota. MS, Aviation Emphases: Safety Culture Assessment in Collegiate Aviation	2013
International Air Transport Association Training and Development Institute. Montreal. Canada. Safety Management Systems (SMS) Implementation and Control. Certificate of Graduation (Distinction)	2011
Higher Power Academy- Fort Worth. TX. USA. Airline Transport Pilot License (ATP) Course with Type rating Boeing 737/ 300-800 Series. Federal Aviation Administration (FAA)	2009
North Dakota National Guard/ Ghana Air Force. Aviation Safety Program Management Course. Certificate of Completion	2007
United States Naval Safety Center/ Ghana Air Force. Aviation Accident Investigation. Certificate of Completion	2007
Ghana Armed Forces Command and Staff College. Post-Graduate Diploma, Military Science, Strategic Leadership and Command Emphases: Military Command and Leadership	2006
Ghana Institute of Management and Public Administration. Post-Graduate Diploma, Public Administration and Corporate Governance Emphases: Institutional Management and Administrative Training	2006
Ghana Air Force. Accra. Ghana. Flight Commanders' Course (No.3). Graduate Certificate	2005
United States Air Force Safety Center/Embry-Riddle Aeronautical University. Post Graduate Diploma, Aviation Safety Management, and Aircraft Accident Investigations Emphases: Jet Mishap Investigations and Accident Analysis	2004
CAE Flight Crew Training B.V., Maastricht, Netherlands. Fokker F27 Mk 500 Ground Training/Type-rating Course	2003
Ghana Armed Forces HIV/AIDS Control Program. Peer Education Trainer Course. Certificate of Completion	2002

Ghana Air Force Number 1 Squadron Training.	2001
Type Training/Operational Certification – BN-2T Islander Aircraft	
FlightSafety Academy. Vero Beach. Florida. USA.	2000
FAA. Commercial Pilot/Multi-Engine/Instrument Certification	
Ghana Air Force Flying Training School – Basic Flight Training.	1999
Ab-Initio Fighter Jet Training Certification. (Cessna 172/L-29 Dolphin/L-39 Albatross).	
Ghana Military Academy.	1998
Diploma in Military Tactics, Command, & Leadership.	
Kwame Nkrumah University of Science and Technology.	1997
BS, Physics	
Emphases: Radiation and Nuclear Physics.	

PROFESSIONAL EXPERIENCE

The University of North Dakota John D. Odegard School of Aerospace Sciences.	
Grand. Foks. ND.	
Associate Professor -Tenure	2025
Assistant Professor (Tenure Track)	2019 -2025
Professor of Aviation and Aerospace Sciences. Teaching and dissertation/thesis supervision in the graduate program; Teaching and advising in the undergraduate program; Service and research.	
The University of North Dakota John D. Odegard School of Aerospace Sciences.	2017 - 2019
Grand Forks, ND.	
Assistant Professor (Non-tenure Track)	
Teaching, research, and service in the aviation and aerospace sciences programs. Dissertation/thesis supervision in the graduate program; Teaching and advising in the undergraduate program; Service and research.	
The University of North Dakota John D. Odegard School of Aerospace Sciences.	2017
Grand Forks, ND	
Adjunct Professor	
Adjunct teaching, advising, and research in the aviation department	
The University of North Dakota John D. Odegard School of Aerospace Sciences.	2013 - 2016
Grand Forks, ND	
Graduate Teaching Assistant	
Teaching, research, and advising in the aviation department.	
Virgin Nigeria Airline.	2010 - 2012
Lagos, Nigeria	
Senior First Officer/Flight Operations Safety Officer	
Pilot on the Boeing 737 300-800 series and Flight Operations Safety Officer. Coordinated the Safety Management System Implementation of the Airline and was part of the team that prepared the airline to undergo and successfully pass the International Airline Transport Association (IATA) Operational Safety Audit (IOSA)—helped with the airline's flight data management system.	
Ghana Air Force. Ministry of Defence. Ghana.	1997 - 2009
Accra, Ghana	
Squadron Pilot/Acting Squadron Commander/Flight Commander (Executive/VVIP Squadron)/ Base Chief of Safety. Aircraft Commander /Training Captain. Fokker F-27. Also flew BN-2T/Aerovodocody L-29/L-39. Ensured safe and efficient flight operations for VVIPs and strategic and tactical military flights for the Ghana Air Force. Conducted initial operational experience/line training for the new crew in the squadron. Conducted United Nations peace support flight operations. Conducted test and maintenance evaluation flights. Developed standard operating procedures and safety management systems manual for the operational base. Honorably released as Major.	

Ghana Armed Forces/ State of North Dakota Partnership Program.

2006- 2008

Project manager for the Ghana Air Force and the State of North Dakota Partnership Program for training in aviation safety.

Designed and facilitated modular aviation safety, human factors, and CRM training for international aviation entities.

Kwame Nkrumah University of Science and Technology/School of Trade Training, Ghana Air Force.

2006 -2009

Accra, Ghana. Adjunct Professor: Taught Safety Management Systems and Aircraft Accident Investigation Techniques to Juniors and Seniors from the Aerospace Engineering Cohorts of the University on practicum at the Ghana Air Force School of Trade Training.

COURSES TAUGHT AT UND

2019- 2025

Aviation 208	Aviation Safety
Aviation 250	Human Factors
Aviation 430	Crew Resource Management
Aviation 503	Statistics
Aviation 504	Research Methods
Aviation 506	Quantitative Research Methods
Aviation 512	Environmental Sustainability, Occupational Safety and Health
Aviation 513	Aviation Safety Mgmt. Systems
Aviation 515	Human Factor & Ergonomics.
Aviation 516	Training Systems Design
Aviation 518	Human Error
Aviation 523	Aviation Safety Data Analysis
Aviation 587	Supervised Field Work
Aviation 591	Readings in Aviation
Aviation 593	Individual Research in Aviation
Aviation 595	Aviation Capstone
Aviation 996	Continuing Enrollment
Aviation 997	Independent Study
Aviation 999	Dissertation

2019 - 2025

Course Development

Aviation 515- Human Factors and Ergonomics: Information Systems Design: Redeveloped the course to include new concepts on human information processing and its applicability in various aviation workspace designs (airplane flight decks, ATC consoles, UAS remote operators workspace, etc.). Topics in physical ergonomics and anthropometry were also added. Cultural factors influencing design and compatibility issues were added with expanded case studies from a globalized perspective.

Aviation 518—Human Error: I redeveloped the course to incorporate case studies and concepts from high-reliability organizations, including aviation, space operations, maritime, construction, and medicine. I also introduced taxonomies and various methodologies for assessing human error.

Aviation 512 – Environmental Sustainability, Occupational Safety and Health in Aviation: Redeveloped the course to include occupational safety and health. The course will explore various concepts related to environmental sustainability, occupational safety, and health issues in the aviation workspace. In-depth analyses of regulations, policies, and best practices for a safe, sustainable, and healthy aviation workspace are covered. Various evidence-based strategies for effectively managing occupational safety and health programs in the aviation workspace, while ensuring environmental sustainability, are also discussed.

Academic Advising (UND)

2024-2025

32 undergraduate students
6 graduate students

2023-2024

32 undergraduate students
3 graduate students

2022-2023

32 undergraduate students
4 graduate students

2021-2022

32 undergraduate students
8 graduate students

2020-2021

32 undergraduate students
10 graduate students

2019-2020

25 undergraduate students
1 graduate student

2018-2019

25 undergraduate students
1 graduate student

Graduate Student Advising - Dissertation Committee Chair:

1. Robert Foster, "Safety Culture Assessment in Multiple Collegiate Programs," Aviation 999. (Completed). Supervised candidates to conduct original research in partial fulfillment of requirements for a Doctor of Philosophy in aerospace sciences and provided advice on coursework. (Successful Defense and graduation in December 2020).
2. Robert Waltz. "An Evaluation of the Relationships between Safety Management Systems (SMS), Transformational Safety Leadership, Self-efficacy, and Safety Performance Metrics in a 14 Code of Federal Regulations (CFR) Part 121 Airline: A Mediation Analysis" Aviation 999. Supervised candidates to conduct original research in partial fulfillment of requirements for a Doctor of Philosophy in aerospace sciences and provided advice on coursework. (Successful Defense and graduation in March 2022).
3. Manolis Karachalios "An Evaluation of the Relationships between Resilient Safety Culture, Safety Risk Parameters, and Mindfulness in the International Air Show Community." Aviation 999. Supervised candidates to conduct original research in partial fulfillment of requirements for a Doctor of Philosophy in aerospace sciences and provided advice on coursework. (Successful Defense and graduation in May 2022).
4. James Norman. "A Cross-Sectional Exploratory Study on Voluntary Reporting of Professional Groups in U.S. Commercial Aviation." Aviation 999. Supervised candidates to conduct original research in partial fulfillment of requirements for a Doctor of Philosophy in aerospace sciences and provided advice on coursework. (Successful Defense and graduation in December 2022).
5. Avery Katz "An evaluation of the acceptability and cost-benefit of broadening the regulatory mandate for crash-resistant flight recorder systems for 14 CFR part 135 aircraft operations in the United States." (Research ongoing).
6. Victor Pul "Harmonizing Safety Management Framework for an Effective Implementation of the Single African Air Transport Market (SAATM) - Assessing Stakeholders' Perspective in West Africa." (Research Ongoing).

Graduate Student Advising - Dissertation Committee Member:

1. Amrita Chatterjee, Computer Science 999. Member-at-large. (August 2020 – Present). Preliminary meetings to finalize topics for research. Successful defense

proposals/oral comprehensive examination.

2. Tiffany Day, Aviation 999, "Virtual Reality Training Transfer" (January 9, 2020—present).
3. Brian Teske, Space Studies 999. "Preparing Commercial Space Companies For Safety Management System Implementation," (April 23, 2019 - June 8, 2020). Assisted students in formulating the research methodology, statistical analysis, and discussions/conclusions of the dissertation report. Assisted in the mock defense of research and assisted with the final proofreading of the dissertation draft for submission to publishers.
4. Nicholas Proett, Aviation 999. An assessment of the acceptability and utilization of "sense and avoid" technology as a mid-air collision reduction strategy in General Aviation (GA) operations in the United States: A Sequential Mixed Methods Approach (2020 – Present).

Graduate Student Advising - Master's Thesis Committee Chair

1. Dinusha Sammani Gunarathna Adikari Mudiyansele, "The impact of Safety on Fleet Acquisition and Management in U.S Commercial Airlines," Aviation 998. (April 1, 2020 -12/12/2020). I supervised the student's thesis and provided intellectual and research direction for a successful study and defense. Successful Defense and graduation.
2. Dana Atkins, " Understanding Decision-Making Styles of Part 135 Pilots in Remote Settings and their Impact on Aviation Safety: A Qualitative Inquiry of Alaskan Operational Environments," Aviation 998. I supervised the student's thesis and provided intellectual and research direction for a successful study, defense, and graduation. (February 13, 2020 – 11/30/2021).
3. Michael Barrett, "Stable Approach Criteria Training Implementation In Part 141: A Quantitative Analysis," Aviation Avit 998. (December 17, 2017 – 12/08/2020). Overall supervision of the research and ensuring quality controls to meet standards required for completion of the M.S. degree. Graduated after successfully submitting independent study reports.
4. Erin Dunker, "Safety Assurance: A Mixed-Methods Assessment of Safety Risk Control Effectiveness in Collegiate Aviation Operations." Aviation 998. (2023- Present).
5. Thomas Harrison, " A Cross-Sectional Study of Mobile Technology Use and Perceived Distractibility in the Collegiate Flight Training Environment." Aviation 998. (2023- Present).
6. Fernando Sucre Hernandez, " Fatigue Risk Management In Canadian Helicopter Operations: Assessing the Impact of New Regulations and Proposing Data-Driven Solutions. "Aviation 998. (2023- Present).

Graduate Student Advising - Master's Thesis Committee Member

1. Todd Heyne, " Incorporating Worker Protections in CBAs as a Facilitator for Self-Reporting." Aviation 998. (Completed May 2022)
2. Carly Davidson, " US Commercial Spaceflight Safety Regulation" Space Studies 998 (Ongoing).

INSTITUTIONAL SERVICE

Department

Organization of Black Aerospace Professionals Collegiate Chapter (UND) Academic Advisor Provides faculty oversight and supervision for the collegiate chapter of OBAP. an international professional body that encourages and increases diversity and inclusion, especially for people of color in aerospace.	2020 - Present
Aviation Living Learning Center (ALLC) Faculty Advising Meet	2022- Present
Diversity, Equity, Inclusion (DEI) Sub-Committee	2022- Present
Departmental Goals Review Committee	2024 –
Program Review Committee (Aviation Safety and Operations Degree)	2024 –

Aerospace Sciences Doctoral Students Admission Committee	2017 - Present
Aviation Core Committee Member, Member Administration and oversight of core courses in aviation Classes: 100, 208, 250, 302, 309, 310, 372, 397, 399, 402, 403, 405, 407, 442, 485, 490, 491, 497, 499	2018 - Present
Promotion Tenure Evaluation Committee Member	2025-2027
Course Prime – Aviation 513 (Safety Management Systems), Aviation 515 (Human Factors & Ergonomics), Aviation 518 (Human Error), Aviation 512 (Env. Issues/Occup. Health and Safety)	2022 - Present
Move-in Weekend Attendee: I assist in the semester move-in for first-year students at Noren Hall. I help parents and wards during the semester move-in for first-year students at Noren Hall.	2017 - Present
Guest Lecture, Aviation Department, University of North Dakota, Aviation 495 - Global Aviation: Gave two lectures on Trends in aviation within the global perspective to seniors as part of their capstone courses.	2017 - 2019
Graduate Faculty Committee	2017 - Present
Full graduate faculty member tasked with efficiently administering the MS Aviation and Ph.D. Aerospace Science programs. The committee is tasked with promoting the academic quality of the Aviation Graduate Degrees and providing administrative support (teaching schedules, staffing, student admission, etc.) for the program.	
Graduate Program Examination Coordinator Ensures effective organization and grading of both M.S. Aviation and Ph.D. Aerospace Sciences comprehensive examinations for eligible candidates.	2018 – Present
College	
John D. Odegard School of Aerospace Sciences University Senate Service, Member Elected College Representative on the University Senate till August 2019.	2017 - 2019
Aerospace Community Day Volunteer	2017 - Present
Promotion Tenure Evaluation Committee Member	2025 -2027
The University of North Dakota.	
University Senate – At-Large Member	2024 -2026
Faculty Advisor - Redeemed Christian Fellowship, UND Chapter	2022- Present
University Diversity, Equity, Inclusion Committee Committee Member	2023 - Present
University Honorary Degrees Committee Committee Member	2020 - Present
University Curriculum Committee Committee Member	2018 - 2021
GRAD Research Day Reviewer, Member I review presentations during the School of Graduate Studies' annual GRAD Research Presentation, a one-day celebration of our graduate students' work over the past academic year.	2017- Present
UNDS Showcase (Capstone Poster Session) Reviewer, Member	2017-Present

UND Showcase (Capstone Poster Session) for undergraduate research.

Public and Community

- Presbyterian Boys Senior High School, Legon. Ghana Mentorship Program **2015 - Present**
Program Coordinator, Concept Originator
Team member of a proactive drive to mentor second-cycle students through engagement and positive role modeling. We aim to build the human capacity of high school students and prepare them with essential life skills, including effective leadership, team building, effective communication, and integrity.
- X-Ed Foundation. Member, Board of Trustees **2022 - Present**
, a nonprofit organization that seeks to bring hope and positive change to pupils in the most isolated and vulnerable communities in developing countries. <https://www.x-edfoundation.org/>
- Freedom Church **2016 - Present**
Community outreach (food bank) and support for the Grand Forks downtown fair and cleaning.
Bass Guitar Player (Church Band).
- Church of Pentecost International **2014 - Present**
Program Organizer, Member
I provide positive mentoring and coaching to second-cycle and pre-university students in critical skills, including leadership, time management, decision-making, task prioritization, effective learning strategies, and pragmatic career choices.
- Gospel Outreach Church **2012 - 2015**
Committee Member, Church Outreach to Shelters and Evangelism
Community Outreach to shelters to share food and provide music for people experiencing homelessness during summer and winter festivities. Part of the Church Band.
- Dissertation Assistance/Support to Graduate Student, Saint Louis University, Aviation Program (2020)
Provided research and statistical analysis support for Captain Abdul Alliu, a PhD candidate in Aviation, during his dissertation proposal, writing, and eventual defense. "Crew Resource Management in Nigerian Airline Operations"
- Dissertation Assistance/Support to Graduate Student, the University Of North Dakota, Aviation/Aerospace Sciences (2018)
Research. During his dissertation proposal, writing, and eventual defense, I provided statistical analysis support for Andrews Leonard, a Ph.D. candidate in Aerospace Sciences.
- Dissertation Assistance/Support to Graduate Student, Walden University (2021)
During his dissertation proposal, writing, and defense, I provided research and statistical analysis support to Colonel Mohamed Wumbei, a Ph.D. candidate in Public Policy and Administration with a focus on Emergency Management.
- Dissertation Assistance/Support to Graduate Student, Walden University (2023)
During his dissertation proposal, writing, and eventual defense, I provided research and statistical analysis support for Group Captain Kwabena Antwi, a Ph.D. candidate in Organizational Leadership.
- Mentorship for Aviation Research Project – Macy Gerber. Liberty University School of Aeronautics. Research project for AVIA 491, a capstone course on the importance of Safety Management Systems in aviation, as well as the pros and cons of implementing Voluntary Safety Programs in flight schools.
- ## Editorial and Review Activities
- Reviewer, Springer Nature **2022 – Present**
- Reviewer, Journal of Human Factors and Ergonomics, Inderscience. **2022 - Present**
- Manuscript Reviewer, Safety Science, Elsevier. **2020 - Present**
- Manuscript Reviewer, Collegiate Aviation Review International. **2018 - Present**
- Manuscript Reviewer, Scientific Reports, Springer Nature, Elsevier. **2023 - Present**
- Manuscript Reviewer, International Journal of Aviation Research. **2020 - Present**

Manuscript Reviewer, Aircraft Engineering and Aerospace Technology Journal.	2020 – Present
Manuscript Reviewer, "The Open Transportation Journal," Bentham Open Group.	2018 - Present
Manuscript Reviewer, "Collegiate Aviation Review International," University Aviation Association.	2018 - Present
Manuscript Reviewer, "Aerospace," MDPI Basel, Switzerland.	2018 - Present
Manuscript Reviewer, "International Journal of Aviation, Aeronautics, and Aerospace.," Embry-Riddle Aeronautical University Worldwide,	2017 - Present
Manuscript Reviewer, "Journal of Air Transport Management (JATM)," Elsevier B.V.	2015 - Present
Manuscript Reviewer, "Journal of Aviation Technology and Engineering (JATE)," Purdue University.	2015 - Present
Editorial Board Member, "Sustainability," MDPI. Basel, Switzerland.	2019 - Present

PUBLICATIONS

Refereed Journal Articles

- Agyare, B., Asare, J., Kraishan, A., Nkrumah, I., & Adjekum*, D.K.(2025).A cross-national assessment of artificial Intelligence (AI) Chatbot user perceptions in collegiate physics education. *Computers and Education: Artificial Intelligence*, Volume 8,100365.<https://doi.org/10.1016/j.caeai.2025.100365>. (*Corresponding Author)
- Adjekum, D.K., Waller, Z., & Keller, J.C. (2024).An evaluation of artificial intelligence chatbots ethical use, attitudes towards technology, behavioral factors, and student learning outcomes in collegiate aviation programs. *Collegiate Aviation Review International*, 42(2), 84-118. Retrieved from <https://ojs.library.okstate.edu/osu/index.php/CARI/article/view/9949/8806>.
- Adjekum, D.K., Afari, S.A., Owusu-Amponsah, N.Y., Waller, W., Rasouli, V., Ullrich, G., Snyder, P., Neal Corbin, N. (2023).Development of a generative voluntary safety reporting culture (GVSRC) model for the Gulf of Mexico (GOM) oil and gas (O & G) sector using attributes of the aviation safety action program (ASAP), *Safety Science*, Volume 161, 106073, <https://doi.org/10.1016/j.ssci.2023.106073>.
- Adjekum, D. K., Owusu-Amponsah, N. Y., Afari, S. A., Waller, Z., Rasouli, V., Ullrich, G., Snyder, P., et al. (2023). Stakeholders' Perspectives on Generative Voluntary Safety Reporting Culture (GVSRC) in the Gulf of Mexico (GOM) Oil and Gas (O&G) Sector Using the Offshore Safety Action Program (OSAP). *Safety*, 9(2), 26. MDPI AG. Retrieved from <http://dx.doi.org/10.3390/safety9020026>.
- Foster, R. A., & Adjekum, D. K. (2023). Evaluating the Effects of Safety Management Systems (SMS) on Safety Culture Factors in Collegiate Aviation Operations: A Structural Equation Modeling (SEM) Approach. *International Journal of Aviation, Aeronautics, and Aerospace*, 10(2). DOI: <https://doi.org/10.58940/2374-6793.1788>
- Gunarathna, D. A. M., & Adjekum, D.K. (2022). Exploring the impact of operational safety on aircraft fleet planning and Management factors in a U.S. commercial airline operation. *International Journal of Aviation Research*, 14(1),14-43. Retrieved from <https://ojs.library.okstate.edu/osu/index.php/IJAR/article/view/8512>
Corresponding author.
- Keller, J., Mendonca, F.A.C. & Adjekum, D.K. (2022). Understanding factors underlying fatigue among collegiate aviation pilots in the United States. *Safety*, 8, 46. <https://doi.org/10.3390/safety8020046>
- Foster, A., R. & Adjekum, D., A. (2022). A Qualitative Review of the Relationship between Safety Management Systems (SMS) and Safety Culture in Multiple-Collegiate Aviation Programs. *Collegiate Aviation Review International (CARI)*. Vol. 40 No. 1. <https://ojs.library.okstate.edu/osu/index.php/CARI/article/view/8511>
- Teske, B.E., & Adjekum, D.K. (2022). Understanding the relationship between High-Reliability Theory (HRT) of mindful organizing and Safety Management Systems (SMS) within the aerospace industry: A cross-sectional quantitative assessment, *Journal of Safety Science and Resilience*, Volume 3, Issue 2, Pages 105-114, <https://doi.org/10.1016/j.jnlssr.2022.01.002>. (<https://www.sciencedirect.com/science/article/pii/S2666449622000032>)

- Teske, B.E., Adjekum, D.K. (2021). Advancements in Space Safety: An assessment of Safety Management System Theory (SMST) attributes among commercial space organizations and CFR Part 121 airlines, *Journal of Space Safety Engineering*, <https://doi.org/10.1016/j.jsse.2021.10.001>.
(<https://www.sciencedirect.com/science/article/pii/S2468896721000951>)
- Keller, J., Coimbra Mendonca, F. A., & Adjekum, D. (2021). Contributory Factors of Fatigue Among Collegiate Aviation Pilots: An Ordinal Regression Analysis. *Collegiate Aviation Review International*, 39(2),63-93. Retrieved from <http://ojs.library.okstate.edu/osu/index.php/CARI/article/view/8263/7647>
- Adjekum, D. K., Tous, M. F. (2020). Assessing the relationship between organizational management factors and resilient safety culture in a collegiate aviation program with Safety Management Systems (SMS). *Elsevier, Safety Science 131* (104909), 15. <https://doi.org/10.1016/j.ssci.2020.104909>
- Adjekum, D. K. (2020). Assessing Cultural Drivers of Safety Resilience in a Collegiate Aviation Program. *Collegiate Aviation Review International (University Aviation Association)*, Volume 38(Issue 1), Article 8 (pages 122-147). <https://doi.org/10.22488/okstate.20.100208>
- ElSaid, A. A., Adjekum, D. K., Nordlie, J., El Jamiy, F. (2019). A Testbed for Measuring UAS Servo Reliability. *MDPI Journal (www.mdpi.com/journal/aerospace)*, 06(096), 20; Aerospace 2019, 6, 096. <https://doi.org/10.3390/aerospace6090096>
- Keller, J., Adjekum, D. K., Alabi, B. N. T., Kozak, B. (2018). Measuring Public Utilization Perception Potential of Unmanned Aircraft Systems. *International Journal of Aviation, Aeronautics, and Aerospace*, 5(3), 9. <https://doi.org/10.15394/ijaaa.2018.1243>
- Adjekum, D. K. (2017). An Evaluation of the Relationships between Collegiate Aviation Safety Management System Initiative, Self-Efficacy, Transformational Safety Leadership, and Safety Behavior mediated by Safety Motivation. *International Journal of Aviation, Aeronautics, and Aerospace*, 4(2), 4. <https://doi.org/10.15394/ijaa.2017.1169>
- Adjekum, D. K., Walala, M., Keller, J. J., Christensen, C., DeMik, R. J., Young, J. P., Northam, G. (2016). An Analysis of the Effects of Demographic Variables and Perceptions on the Safety Reporting Behavior in Collegiate Flight Programs. *International Journal of Aviation Sciences*, 1(2). <https://repository.fit.edu/ijas/vol1/iss2/1>
- Adjekum, D. K., Keller, J., Walala, M., Christensen, C., DeMik, R. J., Young, J. P., Northam, G. J. (2016). An Examination of the Relationships between Safety Culture Perceptions and Safety Reporting Behavior among Non-Flight Collegiate Aviation Majors. *International Journal of Aviation, Aeronautics, and Aerospace*, 3(3), 7. <https://doi.org/10.15394/ijaaa.2016.1134>
- Adjekum, D. K. (2015). Bio-Fuel Alternatives in South African Airways (SAA) Operations- Is it an Effective Response to Vulnerability over Carbon Taxes and Penalty? *International Journal of Aviation, Aeronautics, and Aerospace*, 2(3), 2. <https://doi.org/10.58940/2374-6793.1073>
- Adjekum, D., Keller, J., Walala, M., Young, J. P., Christensen, C., DeMik, R. J. (2015). Cross-Sectional Assessment of Safety Culture Perceptions and Safety Behavior in Collegiate Aviation Programs in the United States. *International Journal of Aviation, Aeronautics, and Aerospace*, 2(iss4/3). <https://doi.org/10.15394/ijaaa.2015.1074>
- Adjekum, D. K. (2014). Safety culture perceptions in a collegiate aviation program: A systematic assessment. *Journal of Aviation Technology and Engineering*, 3(2), 44. <https://doi.org/10.7771/2159-6670.1086>
- Adjekum, D. K. (2014). Safety Management Systems in aviation operations in the United States: Is the return on investment worth the cost? *Prime Journal of Business Administration and Management*, Vol. 4(4), pp. 1442-1450. Aviation Faculty Publications. 17. <https://commons.und.edu/avi-fac/17>

Books/Monogram

- Atkins, D., & Adjekum, D. K. (2024). *Aeronautical Decision-Making and Aviation Safety in the Alaskan Operational Setting* (1st ed.). CRC Press. <https://doi.org/10.1201/9781032678863>
- Karachalios, M., & Adjekum, D.K. (2023). *Air Show Performers: Safety, Risk Management, and Psychological Factors* (1st ed.). CRC Press. <https://doi.org/10.1201/9781003431879>

Book Chapter

Karachalios, M. & Adjekum, D.K. (2025). Prologue. In M. Karachalios, *Training for resilient safety: Excellence in air show performers* (1st ed.). (pp.1-30). CRC Press. <https://doi.org/10.1201/9781003504801-1>

Karachalios, M. & Adjekum, D.K. (2025). Qualifications, criteria, and predictors. In M. Karachalios, *Training for resilient safety: Excellence in air show performers* (1st ed.). (pp.31-100). CRC Press. <https://doi.org/10.1201/9781003504801-3>

Karachalios, M. & Adjekum, D.K. (2025). Demographics of air show performers. In M. Karachalios, *Training for resilient safety: Excellence in air show performers* (1st ed.). (pp.101-113). CRC Press. <https://doi.org/10.1201/9781003504801-4>

Karachalios, M. & Adjekum, D.K. (2025). Demography, risk factors, and resilient safety. In M. Karachalios, *Training for resilient safety: Excellence in air show performers* (1st ed.). (pp.114-161). CRC Press. <https://doi.org/10.1201/9781003504801-5>

Karachalios, M. & Adjekum, D.K. (2025). The odyssey of pilot selection. In M. Karachalios, *Training for resilient Safety: Excellence in air show performers* (1st ed.). (pp.162-178). CRC Press. <https://doi.org/10.1201/9781003504801-6>

Research Report

Adjekum, D. K., Ullrich, G. (2013). *Grand Forks International Airport Safety Information Management System*. Grand Forks:

Technical Report

Adjekum, D.K., Afari, S.A., Owusu-Amponsah, N.Y., Waller, W., Rasouli, V., Ullrich, G., Snyder, P., Neal Corbin, N. (2023). "Safety Reporting Action Program for Offshore Oil and Gas Industry in The Gulf Of Mexico" Final Report. National Academies of Sciences (NAS). Gulf Research Project # **2000011196**. Washington. D.C.

Adjekum, D.K., Afari, S.A., Owusu-Amponsah, N.Y., Waller, W., Rasouli, V., Ullrich, G., Snyder, P., Neal Corbin, N. (2023). Generative Voluntary Safety Reporting Culture Model for the Gulf of Mexico Sector. Distributed by: GRIIDC, Harte Research Institute, Texas A&M University–Corpus Christi. <https://doi.org/10.7266/hhbymk6h>

Adjekum, D. K., Ullrich, G. (2013). Safety Assurance/Audit Inspection Guide for UND Aerospace. *UND Aviation Safety Management System Implementation Report*. Grand Forks:

Editorially Reviewed Journal Articles

Adjekum, D. K. (2024, January 19). "Boeing door plug blowout highlights a possible crisis of competence – an aircraft safety expert explains." *The Conversation*. <https://theconversation.com/boeing-door-plug-blowout-highlights-a-possible-crisis-of-competence-an-aircraft-safety-expert-explains-221069>

Adjekum, D. K. (2020). *Practical Human-factors Training and Implementation Program in Ghana Air Force Operations* (Volume 2 ed.). Accra: Ghana Air Force - The Airman Journal.

Adjekum, D. K. (2019). *Physio-Cognitive Risk Factors that affect Human Performance in Aviation* (pp. 4). Accra, Ghana: Ghana Air Force - The Airman Journal.

Adjekum, D. K. (2019). In Jeff Inglis, Jonathan Gang (Ed.), *Here's how airplane crash investigations work, according to an aviation safety expert*. 89 South Street - Suite 202, Boston, MA 02111: The Conversation - Science and technology.

Periodicals/Newspaper/Media

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Adjekum, D. K. (2016). *An evaluation of the relationships between safety management system initiatives, transformational safety leadership, self-efficacy, safety behavior, and safety-related events mediated by safety motivation in collegiate aviation* (10243297th ed., pp. 218). Ann Arbor, MI: ProQuest LLC.

Thesis (M.S.)

Adjekum, D. K. (2013). *Safety culture: An assessment of a collegiate aviation program* (165 pages; ProQuest/UMI. (AAT number 1546051). ed.). Ann Arbor, MI: ProQuest LLC.

PROFESSIONAL PRESENTATIONS

International/National

Adjekum, D. K. (Presenter), 78th University Aviation Association (UAA). Collegiate Aviation Education Conference & Expo. "Ethical use and impact of AI chatbots in collegiate aviation education," Professional Papers Presentation Forum. Hilton Costa Mesa. CA. (October 1-3, 2025).

Adjekum, D. K. (Presenter) & Thomas Harrison. 78th University Aviation Association (UAA). Collegiate Aviation Education Conference & Expo. "Cross-sectional study on mobile technology use and perceived distractibility in collegiate flight training environments." Research Round-Table, Hilton Costa Mesa. CA (October 1-3, 2025).

Adjekum, D. K. (Panelist). Aviation Mental Health Summit 2024. "Elevating Voices". Western Michigan University, College of Aviation in Battle Creek, Michigan. (October 7-10, 2024). <https://wmich.edu/aviation/mentalhealth>
<https://youtu.be/SW0OpYR6ZU4?si=xsCkShRu4OKsARR1>

Adjekum, D. K. (Presenter). Stockton University- Application of Physics in Aviation Operations– Department of Physics Colloquium Series. (March 18, 2024). Online.

Adjekum, D. K. (Presenter), 76th University Aviation Association (UAA). Collegiate Aviation Education Conference & Expo. "Artificial Intelligence ChatGPT User Perceptions in Collegiate Aviation Programs," Hilton Bayfront. St. Petersburg, FL. (September 27-29, 2023).

Adjekum, D. K. (Presenter), Board of Certified Safety Professionals (BCSP) Research and Innovation Summit. "Qualitative Overview of Voluntary Safety Reporting in the Gulf of Mexico Oil and Gas Industry," J.W. Marriott Hotel. Indianapolis. IN. (August 7-10, 2023). <https://whova.com/embedded/session/NR8xb2s6pR4EWFjYHoFe2-uCyZ81WkpOFlemIbSNolI%3D/2925925/?widget=primary>

Adjekum, D. K. & Afari, A.S. (Presenters), Offshore Technology Conference (OTC). "Generative Voluntary Safety Reporting Culture (GVSRC) Model Assessment for the Gulf of Mexico (GOM) oil and gas (O & G) sector using attributes of the Aviation Safety Action Program (ASAP)." NRG Center. Houston. TX. (May 1-4, 2023). <https://2024.otcnet.org/about/highlights>

Adjekum, D. K. & Foster, T. (Presenters), 75th University Aviation Association (UAA). Collegiate Aviation Education Conference & Expo. "A Qualitative Review of Safety Management Systems (SMS) and Safety Culture in Collegiate Aviation Programs," Antlers Hotel. Colorado Springs. CO. (October 4-7, 2022).

- Keller, J., Adjekum, D. K. & Mendonca, F.A.C. (Presenters), 75th University Aviation Association (UAA). Collegiate Aviation Education Conference & Expo. "Contributory Factors of Fatigue Among Collegiate Aviation Pilots – Phase II." Antlers Hotel. Colorado Springs. CO. (October 4-7, 2022).
- Adjekum, D. K., Keller, J., & Mendonca, F.A.C. (Presenters), 75th University Aviation Association (UAA). Collegiate Aviation Education Conference & Expo. "Exploratory Assessment of a Collegiate Aviation Mental Health Study." Research Roundtable. Antlers Hotel. Colorado Springs. CO. (October 4-7, 2022).
- Adjekum, D. K., Keller, J., & Mendonca, F.A.C. (Presenters), National Training Aircraft Symposium (NTAS) 2022 "Dimensionality Assessment of Fatigue in Collegiate Aviation Operations: A Structural Equation Modeling Approach" Embry-Riddle Aeronautical University, Daytona Beach (October 24-26, 2022).
- Adjekum, D. K. (Moderator- Safety & Organizational Safety, Climate and Culture Sessions), 21st International Symposium of Aviation Psychology, Oregon State University, (May 18-21, 2021). <http://toc.proceedings.com/59338webtoc.pdf>
- Adjekum, D. K. (Presenter), 21st International Symposium of Aviation Psychology. "Organizational management factors (4Ps), resilient safety culture, and safety management system (SMS) – A collegiate aviation review," Oregon State University, (May 18-21, 2021). <http://toc.proceedings.com/59338webtoc.pdf>
- Adjekum, D. (Presenter). Georgetown University- International Executive Emergency and Disaster Management Program Lecture Series, "Air Crash Case Studies and Disaster Management" (January 26, 2021). Online.
- Adjekum, D. (Presenter & Author), Tous, M. F. (Presenter & Author), University Aviation Association (UAA) Annual Conference, "Cultural Drivers of Safety Resilience in a Collegiate Aviation- An SEM Approach," University Aviation Association, Virtual. (September 18, 2020).
- Adjekum, D. K. (Author Only), International Symposium of Aviation Psychology. " Safety culture perceptions and safety reporting behavior among non-flight aviation majors- A Quantitative Analysis," Ohio State University, Dayton, Ohio. (May 7, 2017).
- Adjekum, D. K. (Author Only), University Aviation Association Fall Conference, "An analysis of the effects of demographic variables and perceptions on the safety reporting behavior in collegiate flight programs. " University Aviation Association, University of Nebraska, Omaha. (September 29, 2016).
- Adjekum, D. K. (Author Only), Aviation, Aeronautics, and Aerospace International Research (A³iR) A3irCon, "Cross-sectional assessment of safety culture perceptions and safety behavior in collegiate aviation programs in the United States.," Embry-Riddell Aeronautical University, Chandler, Arizona. (January 16, 2016).
- Adjekum, D. K. (Presenter & Author), University Aviation Association Fall Conference, "-Adjekum, D. K., Keller, J., Walala, M. (2015). Safety Culture Perceptions and Safety Reporting Behavior in Collegiate Aviation," University Aviation Association, Salt Lake City, Utah. (October 22, 2015).

Local/State

- Adjekum, D. K. & Owusu-Amponsah, N. (Poster Presenters), Williston Basin Petroleum Conference (WBPC). " Offshore Safety Action Program in the Gulf of Mexico (GOM) oil and gas (O & G) sector ." Bismarck Events Center. Bismarck. ND. (May 11-13, 2021).
- Adjekum, D. K. (Presenter & Author), Proceedings of University of North Dakota School of Graduate Studies 2016 Scholarly Forum (Session 8 Article number O-35). "Cross-sectional Assessment of Safety Culture Perceptions and Safety Behavior in Collegiate Aviation Programs. " University of North Dakota Odegard School of Graduate Studies, Memorial Union, UND. Grand Forks. (March 1, 2016).
- Adjekum, D. K. (Presenter & Author), Proceedings of University of North Dakota School of Graduate Studies 2015 Scholarly Forum, "Exploring the Relationship between Safety Culture Perceptions and Safety Behaviors in Collegiate Aviation Programs," University of North Dakota School of Graduate Studies, Memorial Union, UND, Grand Forks. (March 10, 2015).
- Adjekum, D. K. (Presenter & Author), Zach, W. (Presenter & Author), Proceedings of University of North Dakota School of Graduate Studies 2013 Scholarly Forum, "Career Aspirations of Entry-level Collegiate Commercial Aviation Students," School of Graduate Studies, University of North Dakota, Memorial Union, University of North Dakota. (March 5, 2013).

GRANTS AND CONTRACTS

Submitted

Adjekum, D. K. (Supporting), Ullrich, G. (Co-Principal), Jorgenson, T. (Supporting), Snyder, P. (Co-Principal), **"Maintenance Human Factors and Risk-Based Decision Making,"** Sponsored by FAA - Solution for Aviation Operational Research (SOAR) Center of Excellence for Technical Training and Human Performance, Federal, \$81,000.00. (October 2, 2017 - 2018). (Not Funded)

Adjekum, D. K. (Supporting), Ullrich, G. (Co-Principal), Snyder, P. (Co-Principal), Jorgenson, T. (Supporting), "Maintenance Human Factors and SMS Integration," Sponsored by Federal Aviation Administration - Center of Excellence for Technical Training and Human Performance, Federal, \$50,000.00. (October 2, 2017). (Not Funded)

Adjekum, Daniel (Principal), Archer, Lewis (Co-Principal), Wilson, Nicholas (Supporting), Ullrich, Gary (Supporting), Ferraro, Richard (Supporting), Bjerke, Elizabeth (Supporting), Higgins, James (Supporting), Lindseth, Paul (Supporting), Smart, Kathy (Supporting), Stupnisky, Robert (Supporting), "Training the Emerging Pilot Workforce," Sponsored by Federal Aviation Administration, Federal, \$610,242.00. (May 8, 2018 - June 12, 2018). (**Not Funded**)

Adjekum, D.K. (Principal). John D. Odegard School of Aerospace Sciences Seed Grant 2019 (\$8760). (**Funded**).

Adjekum, D.K. (Principal), Rasouli, V. (Supporting), Ullrich, G. (Supporting), Waller, Z. P., Snyder, P. (Supporting), (Supporting), "Safer Offshore Energy Systems Grants 4 - Near-Miss and Incident Reporting Systems," Sponsored by The National Academies of Sciences, Engineering, and Medicine, Federal, **\$755,851.00**. (September 1, 2019 - August 30, 2023). (**Funded**).

Adjekum, D.K. (Principal), Karikari, I. (Co-PI), Karikari, G. (Co-PI), Keller, J. (Co-PI), Mendoca, F. (Co-PI), Montgomery, M. (Co-PI). Collegiate Aviation Mental Health Assessment Scale (CAMHASS) study. Federal Aviation Administration (FAA) Grant FAA-20-01. \$765,555.00 (Submitted February 18, 2022). (**Not Funded**).

Adjekum, D.K. (Principal), Waller, Z. (Co-PI), Azizova, Z. (Co-PI), Keller, J. (Co-PI), Chaminda, P. (Co-PI), "The Impact of Scholarships on the Academic Success of Low-income Collegiate Students in Science, Technology, Engineering, and Mathematics (STEM) Aerospace Programs: A Longitudinal Assessment. National Science Foundation Collaborative Planning Grant NSF # 24-511. \$99,986.00 (Submitted March 08, 2024). (**Under Review**).

PROFESSIONAL EDUCATION/CONSULTANT ACTIVITIES

Adjekum, D. K (Participant). "Quality Course Design for the Transition to Blackboard Ultra - Virtual." TTaDA. UND. Grand Forks. (May 28, 2025).

Adjekum, D. K (Participant). "Best Practices in Course Design." TTaDA. UND. Grand Forks. (May 27, 2025).

Adjekum, D. K (Participant). "Accessibility Workshop May 2025." TTaDA. UND. Grand Forks. (May 27, 2025).

Adjekum, D. K (Participant). "Suicide Prevention Training." TTaDA. UND. Grand Forks. (November 21, 2024).

Adjekum, D. K (Participant). "76th Safety Info Share Professional Development Workshop 2023." University Aviation Association, St. Petersburg. FL. (September 27, 2023 - September 29, 2023).

Adjekum, D. K (Participant). Continuing Education, "Board of Certified Safety Professionals (BCSP) Research and Innovation Summit," Board of Certified Safety Professionals (BCSP), Indianapolis, IN. (August 7, 2023 - August 10, 2023).

Adjekum, D. K. (Participant). National Transportation Safety Board (NTSB) - Safety Round-Table on Runway Safety/Runway Incursion Prevention. NTSB Headquarters Board Room. Washington. D.C. (May 21-23, 2023).

Adjekum, D. K (Participant). Training. The University of North Dakota's Compensation Compliance System (UNDCC) for Principal Investigators (PI). University of North Dakota. Online. (May 16, 2023).

Adjekum, D. K (Participant). Media Engagement for Researchers Training Seminar organized by the UND Communications Department.

Adjekum, D. K (Participant). Workshop, "75th Safety Info Share Professional Development Workshop." " University Aviation

Association, Colorado Springs. CO. (October 5, 2022 - October 8, 2022).

Adjekum, D. K (Participant). Workshop, "2021 Flight Safety Info Share," University Aviation Association International, Memphis. (October 6, 2021).

Adjekum, D. K (Participant). Workshop, "Implementing High-Impact Practices Across Modalities," Teaching Transformation & Development Academy (TTaDA) of the University of North Dakota, Grand Forks. (October 15, 2019).

Adjekum, D. K (Participant). Seminar, "Measuring Safety Performance: How do you know if your Safety Management System is working? " National Safety Council - Occupational Safety and Health Services Unit, San Diego, CA. (September 7, 2019 - September 10, 2019).

Consulting pro-bono for the Ghana Airforce and Ministry of Aviation. Republic of Ghana. **2014 - Present**
Provides consultancy and training for flight crew/maintenance personnel on Safety Management Systems (SMS), Human Factors, and Crew Resource Management (CRM). Provides Subject Matter Expertise on aviation policies and issues to governmental units and other allied service providers. Assist the Ghana Air Force in periodically assessing their SMS program and help continuously improve operational safety and accident prevention efforts.

- Aviation Capacity Building and Training.
- Safety Management Systems Appraisal and Training Outcome Effectiveness.
- Operational Audit of Infrastructure and Facilities.
- SMS Training and Certification for personnel.
- Human Factors Training for Operations.
- Ground and Flight Instructor Training and Certification.

HONORS/AWARDS

University Aviation Association (UAA): 2025 Frank E. Sorenson Award for Outstanding Achievement of Excellence in Aviation Research and Scholarship.

Nomination – Outstanding Graduate/Professional Teaching Award 2025.
University of North Dakota (08/14/2025)

Nomination – Outstanding Graduate/Professional Teaching Award 2024.
University of North Dakota (08/14/2024)

Nomination – Outstanding Teaching, Research/Creative Activity and Service Award 2022.
University of North Dakota (11/15/2022)

Adjekum, D. K., Keller, J., Walala, M. (2015). Relationship between Safety Culture Perceptions and Safety Reporting Behavior in Collegiate Aviation. Collegiate Graduate Poster Presentation at the University Aviation Association Fall Conference. Salt Lake City, UT. October 21, 2015. Third Place.

Designated Flight Safety Expert. International Civil Aviation Organization (ICAO). **November 14, 2014**

Ghana Golden Jubilee Military Award. **March 6, 2008**
President of the Republic of Ghana and Commander-in-Chief of the Ghana Armed Forces.

- For meritorious military service, leadership, and response to national duty during the 50th Anniversary of Ghana's Independence Celebration.
- Distinguished services in providing flight services and leadership for VVIP during the Ghana@ 50 celebrations.

Distinguished Scholar and Best Graduate Officer (Post Graduate Course in Public Administration). Ghana Armed Forces Command and Staff College. **December 3, 2006**

- Overall Best Student in the Ghana Institute of Management and Public Administration (GIMPA) Post Graduate Public Administration Program (Distinction) during the Command and Staff College Course 53.
- Myhyoung Hall Award for the Most Distinguished Scholar in Public Discourse and Debates.
 - Awarded for exceptional contributions to topical discourse and debates during sessions for graduate officers on topical issues relating to geopolitics, military strategy, leadership, economics, public administration, public sector law, and military command.

Students' Government Excellence in Leadership Award (Vice President)

May 03, 1997

Kwame Nkrumah University of Science and Technology. Kumasi. Ghana.

1st Executive Director. Kwame Nkrumah University of Science and Technology Student Government Trade and Technology Fair (TRATECH) Excellence in Leadership Award. **May 03, 1997**

Presbyterian Boys Secondary School and Sixth Form Science College (Senior Prefect - Leadership) **June 24, 1992**

PROFESSIONAL ASSOCIATIONS

International

Board of Certified Safety Professionals. **2017 - Present**

- Prepare/Grade Certification Exams, Member.
- Voluntarily review and beta-test an array of possible questions for inclusion in the professional certification for the CSP and ASP.

Member, University Aviation Association. **2015 – Present**

Member, Organization of Black Aerospace Professionals. **2010 - Present**

Board of Trustees Member, Strategic Air Services Group **2025 -**

National

Association of Ghanaian Professional Pilots **2012 - Present**

National Trustee/Committee Chair

Provides mentoring to aviation students and youth interested in aviation/aerospace. Provides critical counseling and nurturing to new pilots entering the industry. Assists youth in Ghana's underserved, rural, and economically deprived areas with an interest in aviation in getting the necessary reading materials/audiovisual.