

Daniel Kwasi Adjekum,

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EDUCATIONAL BACKGROUND

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|---|-------------|
| 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 Safety Culture and Management Systems Emphases: Safety Culture Assessment in Collegiate Aviation | 2013 |
| United States Naval Safety Center Graduation Diploma, Aircraft Accident Investigation Course Emphases: Naval Accident Investigative Techniques | 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 law | 2006 |
| United States Airforce Safety Center/Embry-Riddell Aeronautical University Post Graduate Diploma, Aviation Safety Management, and Aircraft Accident Investigations Emphases: Jet Mishap Investigations and Accident Analysis | 2004 |
| Kwame Nkrumah University of Science and Technology BS, Physics Emphases: Radiation and Nuclear Physics | 1997 |

PROFESSIONAL EXPERIENCE

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|---|-----------------------|
| The University of North Dakota John D. Odegard School of Aerospace Sciences Grand Forks, ND Assistant Professor 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. | 2017 - Present |
| The University of North Dakota John D. Odegard School of Aerospace Sciences Grand Forks, ND Adjunct Professor Adjunct teaching, advising, and research in the aviation department | 2017 |

The University of North Dakota John D. Odegard School of Aerospace Sciences
Grand Forks, ND
Graduate Teaching Assistant
Teaching, research, and advising in the aviation department.

2013 - 2016

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 flight data management system of the airline.

Ghana Airforce

1997 - 2009

Accra, Ghana
Squadron Commander (Presidential Squadron) and Base Chief of Safety. Aircraft Commander. /Training Captain
Fokker F-27/BN-2T/Aerovodocody L-29/L-39
Ensured safe and efficient flight operations for VVIPs, and strategic and tactical military flights for Ghana Airforce. 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.

Kwame Nkrumah University of Science and Technology/School of Trade Training

2006 - 2009

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

COURSES TAUGHT AT UND

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 513 Aviation Safety Mgmt. Systems
Aviation 515 Hum Factor & Ergonomics.
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 Avit
Aviation 595 Aviation Capstone
Aviation 996 Continuing Enrollment
Aviation 997 Independent Study
Aviation 999 Dissertation

Academic Advising (UND)

2023-2024

32 undergraduate students
3 graduate students

2022-2023

32 undergraduate students
4 graduate students

2021-2022

32 undergraduate students
8 graduate students

2019-2021

32 undergraduate students
10 graduate students

2018-2020

25 undergraduate students
1 graduate students

2017-2019

25 undergraduate students
1 graduate students

Graduate Committee Service

Dissertation Committee Chair-

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 advice on coursework. (Successful Defense and graduation in December 2020).

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 Regulation (CFR) Part 121 Airline: A Mediation Analysis" (Completed). Supervised candidates to conduct original research in partial fulfillment of requirements for a Doctor of Philosophy in aerospace sciences and advice on coursework. (Successful Defense and graduation in March 2022).

Manolis Karachalios "An Evaluation of the Relationships between Resilient Safety Culture, Safety Risk Parameters, and Mindfulness in the International Air Show Community." (Completed). Supervised candidates to conduct original research in partial fulfillment of requirements for a Doctor of Philosophy in aerospace sciences and advice on coursework. (Successful Defense and graduation in May 2022).

James Norman "A Cross-Sectional Exploratory Study on Voluntary Reporting of Professional Groups in U.S. Commercial Aviation." (Completed). Supervised candidates to conduct original research in partial fulfillment of requirements for a Doctor of Philosophy in aerospace sciences and advice on coursework. (Successful Defense and graduation in December 2022).

Dissertation Committee Member -

Amrita Chatterjee, Computer Science 999. (August 19, 2020 - Present). Preliminary meetings to finalize topics for research. Successful defense proposals/oral comprehensive examination.

Tiffany Day, Aviation 999 "Virtual Reality Training Transfer," Aviation 999. (January 9, 2020 - Present).

Brian Teske, "Preparing Commercial Space Companies For Safety Management System Implementation," Space Studies SPST 999. (April 23, 2019 - June 8, 2020).

Assisted students in the formulating research methodology, statistical analysis, and discussions/conclusions of the dissertation report. Assisted in the mock defense of research. Assisted with final proofreading of dissertation draft for submission to publishers.

Nicholas Proett, Aviation 999. (2020 – Present). 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"

Master's Thesis Committee Chair

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).

Supervising the student's thesis and providing intellectual and research direction for a successful study and defense. Successful Defense and graduation.

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," Supervising the thesis of student and providing intellectual and research direction for a successful study, defense, and graduation. (February 13, 2020 – 11/30/2021).

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 M.S degree. Graduated after successfully submitting independent study reports.

Erin Dunker, "Safety Assurance: A Mixed-Methods Assessment of Safety Risk Control Effectiveness in Collegiate Aviation Operations." (2023- Present).

Thomas Harrison, (2023- Present).

Master's Thesis Committee Member

Christopher Kannwin, "SMS Assessment in U.S. Airports," Aviation 998. (Completed).

INSTITUTIONAL SERVICE

Department

Organization of Black Aerospace Professionals 2020 - Present
Student Org Advisor (Professional Org), Collegiate Chapter (UND) Academic Advisor
I provide 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.

Diversity, Equity, Inclusion (DEI) Sub-Committee 2022- Present

Departmental Goals Review Committee 2024 –

Program Review Committee (Aviation Safety and Operations Degree) 2024 –

Aviation Core 2018 - Present

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

Move-in Weekend 2017 - Present

Attendee, Meeting, Assistance in the semester move-in for freshmen at Noren Hall

Assistance to parents and wards during the semester move-in for freshmen at Noren Hall

Graduate Faculty 2017 - Present

Committee Member, Member

Member of the graduate faculty tasked with the efficient administration of the MS Aviation and Ph.D., Aerospace Science programs.

Objective: Promote the academic quality of the Aviation Graduate Degrees and provide administrative support (teaching schedules, staffing, student admission, etc.) for the program. In addition, assessment of the program must be placed as a high

priority of this group. Complete strategic plan responsibilities.

Graduate Program Examination Coordinator (2018 – Present)

Ensures effective organization and grading of both M.S. Aviation and Ph.D. Aerospace Sciences written comprehensive examinations for eligible candidates.

College

John D. Odegard School of Aerospace Sciences 2017 - Present
University Senate Service, Member, Elected
Elected College Representative on the University Senate till August 2019.

The University of North Dakota

University Honorary Degrees Committee 2020 - Present
Committee Member, Member

University Curriculum Committee 2018 - 2021
Committee Member, Member

GRAD Research Day 2017- Present
Reviewer, Member
Served as a reviewer for presentations during the annual GRAD Research Presentation by the School of Graduate Studies.
A one-day celebration of our graduate students' work over the past academic year.

UNDS Showcase (Capstone Poster Session) 2017-Present
Reviewer, Member
UNDS Showcase (Capstone Poster Session) for undergraduate research.

PUBLICATIONS

Refereed 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., 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 <http://ojs.library.okstate.edu/osu/index.php/CARI/article/view/7799/7212>

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/safety802004>

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 a resilient safety culture in a collegiate aviation program with Safety Management Systems (SMS). *Elsevier, Safety Science* 131((2020) 104909), 15.
- 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).
- 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; doi: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.
- 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.
- 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).
- 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.
- 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.
- 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).
- Adjekum, D. K. (2014). Safety culture perceptions in a collegiate aviation program: A systematic assessment. *Journal of Aviation Technology and Engineering*, 3(2), 44.
- Adjekum, D. K. (2014). Safety Management Systems in aviation operations in the United States: Is the return on investment worth the cost? 2249 44th Avenue South

Books/Monogram

- 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>

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

Magazine/Trade Publication

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

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

Periodicals/Newspaper/Media

Adjekum, D. K. (2024, January 25). “Grounded Boeing 737Max9 Return to Skies; Implications.” Interview with Cory Smith (National Desk). Sinclair Broadcasting Group.

<https://thenationaldesk.com/news/americas-news-now/grounded-boeing-737-max-9-jets-near-return-to-skies-after-faa-inspection-approval-travel-airliners-alaska-panel-blowout-jan-5-door-plugs-united-airlines-federal-aviation-administration-ntsb>

Adjekum, D. K. (2024, January 24). “Boeing 737 Max-9 and airline safety.” Interview with Kris Reyes (Canadian Broadcasting Corporation Correspondent).

Adjekum, D. K. (2024, January 23). “Boeing 737 Max-9 and airline safety.” Interview with Mark Gollom (Canadian Broadcasting Corporation Reporter).

Adjekum, D. K. (2024, January 22). “Boeing 737 Max-9 cabin blow out and impact on aviation.” Interview with Justine Kastien (ARD German Radio and TV Correspondent).

Adjekum, D. K. (2024, January 19). “Boeing 747 makes an emergency landing and airline safety.” Interview with Justine McDaniel (Washington Post Reporter). <https://wapo.st/3U7LyJ2>

Adjekum, D. K. (2024, January 11). “Boeing 737 Max 9 crisis and airline safety.” Interview with Angus Whitley (Bloomberg Newsroom).
<https://www.bloomberg.com/news/features/2024-01-14/boeing-737-max-9-crisis-trust-in-airline-safety-will-take-years-to-repair?srnd=premium&sref=QqLTzMKo>

Adjekum, D. K. (2024, January 10). “Is it safe to hold your baby on a flight? Boeing blowout stokes fears.” Interview with Kelly Cho (Washington Post). wapo-lapbabies.pdf

Adjekum, D. K. (2023, August 27). Aircraft Crash Investigations Analysis. “Wagner Boss Crash” Interview with Benjamin Brown, CNN Headline News. [Explosion likely brought down aircraft purportedly carrying Wagner boss, flight data and video analysis suggest | CNN](https://www.cnn.com/2023/08/27/air-crash-investigations-analysis-wagner-boss-crash/index.html)

Adjekum, D. K. (2023, July 31). “Extreme heat and air travel.” Interview with Karin Caifa (Warner Media -CNN News).
https://www.koamnewsnow.com/news/national-news/dnt-extreme-heat-and-air-travel-3pmet/video_34775af0-d193-5b60-a633-9632c138482b.html?utm_medium=social&utm_source=email&utm_campaign=user-share

Adjekum, D. K. (2023, April 21). Aircraft Contrails and Conspiracy Theories. Interview with Eleanor McCrary (Climate Fact-Check Fellow). USA Today.

Adjekum, D. K. (2022, April 11). Aircraft Crash Investigations Analysis. MU 5735 crash. Interview with Rachel Liang. Wall

Street Journal (WSJ). China.

- Adjekum, D. K. (2022, March,28). Aircraft Crash Investigations Analysis. MU 5735 crash. Interview with Emily Feng. NPR Beijing. China.
- Adjekum, D. (2020). Aircraft Crash Accident Investigations- Processes and Procedures. In Jayme Wickett (Ed.), *Jayme Wickett Show Podcast, Kansas City Headline News*. Kansas City, KS: KMBZ Radio Network.
- Adjekum, D. (2020). An air safety expert says that despite Iran's denials, investigators will be able to tell if a missile caused Ukraine International Airlines Flight 752 to crash. In David Slotnick (Ed.), *Business Insider*. New York, NY: Business Insider.
- Adjekum, D. (2020). Aviation Safety in a global perspective. In Thabiso Kolane (Ed.), *Power Perspective Show*. Johannesburg: Power FM-98.7, www.power987.co.za.
- Adjekum, D. (2020). How Flight PS752's black boxes may help piece together details of Iran plane crash. In Mark Gollom (Ed.), *How Flight PS752's black boxes may help piece together details of Iran plane crash*. Toronto: CBC; www.cbc.ca.
- Adjekum, D. (2020). How Mideast Tensions Could Complicate Iran Crash Investigation. In Carlos Waters (Ed.), *How Mideast Tensions Could Complicate Iran Crash Investigation* (Digital - English ed.). New York, NY: Wall Street Journal (www.WSJ.com).
- Adjekum, D. (2020). In Jamie Robinson (Ed.), *Investigations into Ukrainian Airline Crash in Tehran*. New York, NY, Los Angeles, CA, and Washington D.C: Cheddar Business.
- Adjekum, D. (2020). In Jordan Press (Ed.), *Investigating the Ukrainian Airline crash outside Tehran*. Ottawa: The Canadian Press, National Post; nationalpost.com.
- Adjekum, D. (2020). New Boeing CEO. In Marielle Segarra (Ed.), *Incoming Boeing CEO has much to turn around*. Minneapolis, MN: Market place; www.marketplace.org.
- Adjekum, D. (2019). British Broadcasting Corporation (BBC) - BBC Reality Check; Aviation Safety in The Democratic Republic of Congo (DRC). In Peter Mwai and BBC World Fact Check team (Ed.), *DR Congo: Is it one of the most dangerous places to fly?* London: BBC World News.
- Adjekum, D. (2019). Expert Analysis on Aircraft Accident and Investigations in the Democratic Republic of Congo. In Anne Pasquier (Ed.), *Airline safety in DRC*. London: BBC Newsday, World Service Radio.
- Adjekum, D. (2019). Analysis of Aircraft Accident for Media House. In Wanyee Li (Ed.), *Expert Analysis on the technical implications of the article: Air-Canada-flight-to-Vancouver-from-Shanghai-diverted-due-to-cracked-windowpane*. Vancouver, British Columbia: The Star of Vancouver.
- Adjekum, D. K. (2019). Air Travel in Africa Is Safer Than Ever, Despite the Ethiopia Crash. In Elliot Waldman (Ed.), *Aviation Industry and Safety after ET 302*. World Politics Review Media Group.
- 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.
- Adjekum, D. K. (2019). Interview with Market Place Media Group on Impact of Ethiopian Airline Flight 302 crash on passenger confidence in the Boeing 737 Max 8. In Marielle Segarra (Ed.), *Consumer Confidence in the Boeing 737 Max aircraft*. Market Place.org.
- Adjekum, D. K. (in press). In Louise McLoughlin (Ed.), *Post-traumatic effects of air crash investigations on accident investigators*. Vice / Tonic - <https://www.louisejo.com/about>.
- Adjekum, D. K. (2018). In Daily Graphic (Ed.), *Rejoinder: Domestic Airlines - From Multiple Players to Monopoly*. Accra: Graphic Communication Group.
- Adjekum, D. K. (2018). In Modern Ghana (Ed.), *Aviation Human Resources in Ghana: A Call for Local- Content Requirement Policy*. Accra: Modern Ghana Communication LLC.
- Adjekum, D. K. (2017). In Modern Ghana (Ed.), *Aviation-Related Accident Investigations in Ghana – A Way Forward*. Accra: Modern Ghana Communication LLC.

- Adjekum, D. K. (2017). In Modern Ghana (Ed.), *Establishing A Paradigm Shift in Ghana's Aviation Business Sector – Essential Primers*. Accra: Modern Ghana Communication LLC.
- Adjekum, D. K. (2016). In Modern Ghana (Ed.), *Integrating Unmanned Aircraft System (UAS) Into Ghana's Airspace: A Technological Force Multiplier or Trojan Horse?* Accra: Modern Ghana Communication LLC.
- Adjekum, D. K. (2015). In Modern Ghana (Ed.), *The Impact of The Harmattan Weather on Aviation Operations in Ghana*. Accra: Modern Ghana Communication.
- Adjekum, D. K. (2015). In Modern Ghana (Ed.), *Aviation Operations and Safety in Ghana: A Perspective from Afar*. Accra: Modern Ghana Communication LLC.
- Adjekum, D. K. (2015). In Modern Ghana (Ed.), *Airport Development in Ghana: Ho Airport and Matter Arising*. Accra: Modern Ghana Media Communication.
- Adjekum, D. K. (2014). In Ghana Web (Ed.), *The N604EP Saga, Trusteeship-Lessee Issues*.
- Adjekum, D. K. (2014). In Ghana Web (Ed.), *Towards a Viable Ghana Police Service Aviation Unit*. Amsterdam: GhanaWeb.
- Adjekum, D. K. (2014). In Ghana Web (Ed.), *Safety Management System (SMS) in Ghana's Aviation sector – A Candid Perspective*. Amsterdam: GhanaWeb.
- Adjekum, D. K. (2013). In GhanaWeb (Ed.), *A Sustainable Aviation Sector in Ghana: Is it a case of 'Fixating on a national air carrier' at the expense of other areas in need of development?* (pp. 2249 44th Avenue South). Amsterdam: GhanaWeb.
- Adjekum, D. K. (2013). In GhanaWeb (Ed.), *Can I be an airline pilot in Ghana? My perspective*. Amsterdam: GhanaWeb.
- Adjekum, D. K. (2013). In GhanaWeb (Ed.), *Pilotless Passenger carrying aircraft: Can We Safely Buckle –Up and Sip Champagne and Coffee?* Amsterdam: GhanaWeb.
- Adjekum, D. K. (2013). In GhanaWeb (Ed.), *Towards a Sustainable Aviation industry in Ghana – My perspective* (pp. 2249 44th Avenue South). Amsterdam: GhanaWeb.
- Ph.D. Thesis**
- 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 Harbor, 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 Harbor, MI: ProQuest LLC.

PROFESSIONAL PRESENTATIONS

International

- 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. (Panelist), 76th University Aviation Association (UAA). Collegiate Aviation Education Conference & Expo. " Safety InfoShare Professional Development Workshop." 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-uCyZ81WkpOFIemIbSNolI%3D/2925925/?widget=primary>
- Adjekum, D. K. & Afari, A.S. (Presenters), Offshore Technology Conference (OTC). " Generative Voluntary Safety

Reporting Culture (GVSR) 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 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. "Collegiate Aviation Mental Health Assessment Scale Study." Research Roundtable. Antlers Hotel. Colorado Springs. CO. (October 4-7, 2022).
- Adjekum, D. K. (Panelist), 75th University Aviation Association (UAA). Collegiate Aviation Education Conference & Expo. "Safety InfoShare Professional Development Workshop." Antlers Hotel. Colorado Springs. CO. (October 5, 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., "Assessing the relationships between organizational management factors (4Ps) and a resilient safety culture in a collegiate aviation program with a safety management system (SMS)" Oregon State University, (May 18-21, 2021). <http://toc.proceedings.com/59338webtoc.pdf>
- 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 ." Bismark Events Center. Bismark. ND. (May 11-13, 2021).
- Adjekum, D. (Presenter). Georgetown University- International Executive Emergency and Disaster Management Program Lecture Series, "Air crash Case Studies and Disaster Management" (01/26/2021). Online.
- Adjekum, D. (Presenter & Author), Tous, M. F. (Presenter & Author), University Aviation Association (UAA) Annual Conference, "Assessing Cultural Drivers of Safety Resilience in a Collegiate Aviation," University Aviation Association, Virtual. (September 18, 2020).
- Adjekum, D. K. (Author Only), International Symposium of Aviation Psychology., "Relationships between safety culture perceptions and safety reporting behavior among non-flight aviation majors.," 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. (Presenter & Author), University Aviation Association Fall Conference, "-Adjekum, D. K., Keller, J., Walala, M. (2015). Relationship between Safety Culture Perceptions and Safety Reporting Behavior in Collegiate Aviation," University Aviation Association, Salt Lake City, Utah. (October 22, 2015).
- 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).

Local

- Adjekum, D. K. & Foster, T. (Presenters), 75th University Aviation Association (UAA). Collegiate Aviation Education Conference & Expo. "A Qualitative Review 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. "Collegiate Aviation Mental Health Assessment Scale Study." Research Roundtable. Antlers Hotel. Colorado Springs. CO. (October 4-7, 2022).
- Adjekum, D. K. (Panelist), 75th University Aviation Association (UAA). Collegiate Aviation Education Conference & Expo. "Safety InfoShare Professional Development Workshop." Antlers Hotel. Colorado Springs. CO. (October 5, 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., "Assessing the relationships between organizational management factors (4Ps) and a resilient safety culture in a collegiate aviation program with a safety management system (SMS)" 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" (01/26/2021). Online.
- Adjekum, D. (Presenter & Author), Tous, M. F. (Presenter & Author), University Aviation Association (UAA) Annual Conference, "Assessing Cultural Drivers of Safety Resilience in a Collegiate Aviation," University Aviation Association, Virtual. (September 18, 2020).
- 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 Awarded)
- 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 Awarded)
- 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, Not Funded. (May 8, 2018 - June 12, 2018).

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

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). **Awarded**

Adjekum, D.K. (Principal Investigator), 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).

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.

National

Association of Ghanaian Professional Pilots 2012 - Present
Committee Chair
Provides mentoring to aviation students and youth interested in the field of aviation/aerospace. Provides critical counseling and nurturing for new pilot entrants into the industry. We assist youth in underserved, rural, and economically deprived areas in Ghana, with an interest in aviation to get the necessary reading materials/audio-visual.

PUBLIC, COMMUNITY, & OTHER SERVICE

Ghana Airforce/Ministry of Aviation/Aviation Service Providers in Ghana 2014 - Present
Workshop Organizer
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 to periodically assess their SMS program and help with continuous improvement of operational safety and accident prevention efforts.

Mentorship

Presbyterian Boys High School 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 critical life skills such as effective leadership, team building, effective communication, and integrity.

Public/Community

Freedom Church 2016 - Present
Workshop Organizer
Community outreach and evangelism through art, craft, music, and food.

Church of Pentecost International 2014 - Present
Program Organizer, Member
Providing positive mentoring and coaching to second-cycle and pre-university students in critical skills areas such as 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 the homeless during summer and winter festivities. Part of the Church Band.

Directed Student Learning

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, University Of North Dakota Aviation/Aerospace Sciences (2018)

Provided research and statistical analysis support for Andrews Leonard a Ph.D. candidate in Aerospace Sciences, during his dissertation proposal, writing, and eventual defense.

Dissertation Assistance/Support to Graduate Student, Walden University (2021)

Provided research and statistical analysis support for Colonel Mohamed Wumbei a Ph.D. candidate in Public Policy and Administration - Emergency Management, during his dissertation proposal, writing, and eventual defense.

Dissertation Assistance/Support to Graduate Student, Walden University (2023)

Provided research and statistical analysis support for Group Captain Kwabena Antwi a Ph.D. candidate in Organizational Leadership, during his dissertation proposal, writing, and eventual defense.

Guest Lecture, Aviation Department, University of North Dakota

2017

Aviation 495 - Global Aviation: Gave 2 lectures on Trends in aviation within the global perspective to seniors as part of their capstone courses.

CONSULTANT ACTIVITIES

Ghana Airforce and Ministry of Aviation. Republic of Ghana

2014 - Present

Capacity Building and Training

Safety Management Systems Appraisal and Training Outcome Effectiveness.

Operational Audit of Infrastructure and Facilities.

SMS Capacity Building and Training and Certification for Personnel.

Human Factors Training for Operations.

HONORS/AWARDS

Collegiate Aviation Graduate Poster Presentation October 21, 2015, University Aviation Association

Third place in a peer-reviewed poster presentation at UAA. - Adjekum, D. K., Keller, J., Walala, M. (2015). Relationship between Safety Culture Perceptions and Safety Reporting Behavior in Collegiate Aviation. Poster Presentation at University Aviation Association Fall Conference. Salt Lake City, UT. October 2015.

Designated Subject Matter Expert (Roll of Experts) -Flight Safety. 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).

December 3, 2006

Ghana Armed Forces Command and Staff College.

-Overall Best Student in the GIMPA Post Graduate Course in Public Administration (Distinction) during the Command and Staff College Course 53.

-Myhoung 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.

Editorial and Review Activities

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).

Invited Manuscript Reviewer, "The Open Transportation Journal," Bentham Open Group, 1 review. (August 30, 2018 - Present).

Invited Manuscript Reviewer, "Collegiate Aviation Review International.," University Aviation Association, 1 review. (July 17, 2018 - Present).

Invited Manuscript Reviewer, "Aerospace — Open Access Journal of Aeronautics and Astronautics," MDPI Basel, Switzerland, 2 reviews. (April 10, 2018 - Present).

Invited Manuscript Reviewer, "International Journal of Aviation, Aeronautics, and Aerospace.," Embry-Riddell Aeronautical University Worldwide, 3 reviews. (May 8, 2017 - Present).

Invited Manuscript Reviewer, "Journal of Air Transport Management (JATM)," Elsevier B.V., 2 reviews. (November 30, 2015 - Present).

Invited Manuscript Reviewer, "Journal of Aviation Technology and Engineering (JATE)," Purdue University., 4 reviews. (November 9, 2015 - Present).

Editorial Board Member, "Concept of an ADS-B-driven airport management," MDPI: <http://www.mdpi.com/journal/sustainability/>, 2 reviews. (November 20, 2019 - December 3, 2019).

Invited Manuscript Reviewer, "Aerospace," MDPI: <http://www.mdpi.com/journal/aerospace/>, 5 reviews. (October 1, 2019 - October 11, 2019).

Invited Manuscript Reviewer, "The Diagnosis of Communication and Trust in Aviation Maintenance (DiCTAM) model," Aerospace of MDPI; <https://www.mdpi.com/journal/aerospace/>, 1 review. (September 22, 2019).

Invited Manuscript Reviewer, "The structure and periodicity of the Chinese air passenger network," <http://www.mdpi.com/journal/sustainability/>, 1 review. (October 17, 2018 - October 22, 2018).

Invited Manuscript Reviewer, "Collaborative Product-Service Approach to Aviation Maintenance, Repair, and Overhaul. Part II: Numerical Investigations," Journal of Aviation Technology and Engineering., 1 review. (September 10, 2018 - October 19, 2018).