



EMBRY-RIDDLE
Aeronautical University™

HAZY LIBRARY & LEARNING CENTER



14th Annual
Scholarly
 Speaking



*Celebrating Scholarly
Contributions in 2018*

Scholarly Speaking February 28, 2019 Program

Welcome

Dr. Frank Ayers
Chancellor

Author Recognition

Sarah Thomas
Director, Hazy Library and Learning Center

Dr. Rhonda Capron
Vice Chancellor for Academic Affairs

Faculty Speakers

Professor Michelle Hight
College of Aviation
Pilot Source Study

Dr. Krishna Sampigethaya
College of Security and Intelligence
Air Traffic Control System Cyber Security

**Bibliography
of
Scholarly Contributions
in 2018**

***Embry-Riddle Aeronautical University
Prescott Campus Community***

February 28, 2019



Ashish Amresh

College: Arts & Sciences

Department: Mathematics

Research Areas: STEM education; Computer science for all; Game based learning; Real-time rendering

Ramakrishna, P., Amresh, A., Cavanagh, M., & Greenes, C. (2018). *Motivating students and teachers in sustainability through a design village*. Presented at the EdMedia + Innovate Learning: World Conference on Educational Media and Technology, Amsterdam, Netherlands: Association for the Advancement of Computing in Education (AACE). Retrieved from <https://works.bepress.com/ashish-amresh/36/>

Tadayon, R., Amresh, A., McDaniel, T., & Panchanathan, S. (2018). Real-time stealth intervention for motor learning using player flow-state. In *2018 IEEE 6th International Conference on Serious Games and Applications for Health* (pp. 1–8). Vienna, Austria: IEEE. <https://doi.org/10.1109/SeGAH.2018.8401360>

Zandieh, M., Plaxco, D., Williams-Peirce, C., & Amresh, A. (2018). *Drawing on three fields of education research to frame the development of digital games for inquiry-oriented linear algebra*. Presented at the 21st Annual Conference on Research in Undergraduate Mathematics Education, San Diego, CA. Retrieved from <https://works.bepress.com/ashish-amresh/38/>

Zandieh, M., Plaxco, D., Williams-Peirce, C., & Amresh, A. (2018). Using three fields of education research to frame the development of digital games. In *Proceedings of the 42nd Conference of the International Group for the Psychology of Mathematics Education*. Umea, Sweden: Psychology of Mathematics Education. Retrieved from <https://works.bepress.com/ashish-amresh/37/>



Mehran Andalibi

College: Engineering

Department: Mechanical Engineering

Research Areas: Dynamics, Controls, Machine vision, Robotics

Margowadi, Y., Andalibi, M., & Chandler, D. (2018). *Video-based detection of sidewalk surface changes for use in a smart walking stick*. Presented at the ICSIPA 2018: 20th International Conference on Signal, Image Processing and Applications, Tokyo, Japan: World Academy of Science, Engineering and Technology.

Siewert, S., Andalibi, M., Bruder, S., Gentilini, I., & Buchholz, J. (2018). Drone net architecture for UAS traffic management multi-modal sensor networking experiments. In *2018 IEEE Aerospace Conference* (pp. 1–18). IEEE. <https://doi.org/10.1109/AERO.2018.8396716>

Siewert, S., Andalibi, M., Bruder, S., Gentilini, I., Dandupally, A., Gavvala, S., ... Burklund, D. (2018). *Drone net: A passive instrument to automate UAS traffic management*. Poster presented at the AUXVI XPONENTIAL 2018, Denver, CO.



Quentin Bailey

College: Arts & Sciences

Department: Physics & Astronomy

Research Areas: Fundamental theory of gravity, General theory of relativity, Tests of classical Maxwell electrodynamics

Bailey, Q. G., & Lane, C. D. (2018). Relating noncommutative $SO(2,3)$ ★ gravity to the Lorentz-violating standard-model extension. *Symmetry*, 10(10), 480. <https://doi.org/10.3390/sym10100480>

Bars, H. P.-L., Guerlin, C., Lasserri, R.-D., Ebran, J.-P., Bailey, Q. G., Bize, S., ... Wolf, P. (2018). Lorentz-Symmetry test at Planck-scale suppression with a spin-polarized Cs-133 cold atom clock. *IEEE Transactions on Ultrasonics Ferroelectrics and Frequency Control*, 65(6), 945–949. <https://doi.org/10.1109/TUFFC.2018.2805354>

Shao, L., & Bailey, Q. G. (2018). Testing velocity-dependent C P T -violating gravitational forces with radio pulsars. *Physical Review D*, 98(8). <https://doi.org/10.1103/PhysRevD.98.084049>



Catherine Benson

College: Arts & Sciences

Department: Biology & Chemistry

Research Areas: Restoration ecology, Wildlife management

Benson, C. E., Carberry, B., & Langen, T. A. (2018). Public-private partnership wetland restoration programs benefit species of greatest conservation need and other wetland-associated wildlife. *Wetlands Ecology and Management*, 26(2), 195–211. <https://doi.org/10.1007/s11273-017-9565-8>



Richard Bloom

College: Arts & Sciences

Department: Behavioral & Safety Science

Research Areas: Aviation intelligence and security systems; Profiling; Terrorism, anti-terrorism, and counterterrorism; Threat, vulnerability, and risk assessment; Intelligence collection and analysis, covert action, and counterintelligence; Personnel Security

Bloom, R. W., & Duke, M. (2018). Intelligence analysis and non-coercive interview techniques. *International Bulletin of Political Psychology*, 18(5). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss5/4>

Bloom, R. W., & Jones, D. (2018). Machiavellianism and the dark traits of personality: Implications for organizational and cyber security. *International Bulletin of Political Psychology*, 18(4). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss4/6>

Bloom, R. W., & Linstaedt, N. (2018). The political science and political psychology of dictators, dictatorships, and authoritarian regimes. *International Bulletin of Political Psychology*, 18(4). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss4/5>

Bloom, R. W., & Rosenfeld, P. (2018). The life and times of a premier detector of deception and concealed information. *International Bulletin of Political Psychology*, 18(4). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss4/7>

Bloom, R. W., & Staal, M. (2018). Scientific psychological support of national security issues. *International Bulletin of Political Psychology*, 18(5). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss5/7>

Bloom, R. W., & Strange, D. (2018). Memory distortion. *International Bulletin of Political Psychology*, 18(3). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss5/3>

Bloom, R. W. (Ed.). (2018). A triadic approach to deception in strategic counterintelligence operations. *International Bulletin of Political Psychology*, 18(3). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss3/4>

- Bloom, R. W. (Ed.). (2018). Counterterrorist profiling, the self, and the problem of open and quiet skies. *International Bulletin of Political Psychology*, 18(3). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss3/1>
- Bloom, R. W. (Ed.). (2018). Do voters vote against their interests? *International Bulletin of Political Psychology*, 18(4). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss4/2>
- Bloom, R. W. (2018). Eliminating security screening at smaller airports: Does size matter? *The Globe Post*. Retrieved from <https://theglobepost.com/2018/08/08/tsa-airport-security/>
- Bloom, R. W. (Ed.). (2018). Fake news: Is truth really under attack? *International Bulletin of Political Psychology*, 18(2). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss2/3>
- Bloom, R. W. (Ed.). (2018). Global media wars: The ironic prescience of George Orwell. *International Bulletin of Political Psychology*, 18(3). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss3/3>
- Bloom, R. W. (Ed.). (2018). Israelis and Palestinians: Does bringing them together keep them apart? *International Bulletin of Political Psychology*, 18(4). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss4/3>
- Bloom, R. W. (Ed.). (2018). Jamal Khashoggi: Assassination, abattoir, and the law of small numbers. *International Bulletin of Political Psychology*, 18(5). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss5/6>
- Bloom, R. W. (Ed.). (2018). More on the fakeness of fake news. *International Bulletin of Political Psychology*, 18(5). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss5/1>
- Bloom, R. W. (Ed.). (2018). National security and education: What is graduating college worth? *International Bulletin of Political Psychology*, 18(2). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss2/4>
- Bloom, R. W. (Ed.). (2018). North Korea and the nucleus of denuclearization. *International Bulletin of Political Psychology*, 18(5). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss5/5>
- Bloom, R. W. (Ed.). (2018). Organizational psychology: The entrance to, residing in, and exit from sensitive positions. *International Bulletin of Political Psychology*, 18(4). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss4/4>

- Bloom, R. W. (Ed.). (2018). Personality, psychological profiling, and philosophy of science: The insider threat and betrayers of trust. *International Bulletin of Political Psychology*, 18(4). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss4/1>
- Bloom, R. W. (Ed.). (2018). Praxites and mal-praxites in psychological research: Hoaxes. *International Bulletin of Political Psychology*, 18(5). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss5/2>
- Bloom, R. W. (Ed.). (2018). Psychological profiling of political leaders: Searching for three white whales. *International Bulletin of Political Psychology*, 18(6). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss6/4>
- Bloom, R. W. (Ed.). (2018). Psychological warfare and the kingdom of shame. *International Bulletin of Political Psychology*, 18(2). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss2/1>
- Bloom, R. W. (Ed.). (2018). Psychologies of the immigration wars: Can we and should we support diversity? *International Bulletin of Political Psychology*, 18(1). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss1/4>
- Bloom, R. W. (2018). Secret investigations wanting extra perception. [Review of the book *The Secret History of the U.S. Government's Investigations into Extrasensory Perception and Psychokinesis*, by A. Jacobsen]. *American Journal of Psychology*, 131(3). Retrieved from <https://cpb-us-e1.wpmucdn.com/sites.ucsc.edu/dist/0/158/files/2015/04/Finalajpbookreviewjacobsen-003-2296nqq.pdf>
- Bloom, R. W. (Ed.). (2018). The politics of intelligence. *International Bulletin of Political Psychology*, 18(6). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss6/1>
- Bloom, R. W. (Ed.). (2018). The psychology of time: When the political future is in the past not the present. *International Bulletin of Political Psychology*, 18(6). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss6/3>
- Bloom, R. W. (Ed.). (2018). Tortured policies on torture: Notes from the house of the dead? *International Bulletin of Political Psychology*, 18(3). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss3/2>
- Bloom, R. W. (Ed.). (2018). Treason, treachery, and betrayal of trust: The psychological search for the why. *International Bulletin of Political Psychology*, 18(1). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss1/3>

- Bloom, R. W. (Ed.). (2018). When doing what's right is wrong: The psychology of personnel security. *International Bulletin of Political Psychology*, 18(6). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss6/2>
- Bloom, R. W. (Ed.). (2018). When terror is not terrorism: A political psychological analysis. *International Bulletin of Political Psychology*, 18(5). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss5/8>
- Bloom, R. W. (Ed.). (2018). Who's running the world? Psychological assessment of political leaders. *International Bulletin of Political Psychology*, 18(2). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss2/2>
- Bloom, R. W. (Ed.). (2018). Will the Trump-Kim meeting go nuclear? The role of first impressions. *International Bulletin of Political Psychology*, 18(1). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss1/1>
- Bloom, R. W. (Ed.). (2018). Winning the disinformation war: Suturing the soul. *International Bulletin of Political Psychology*, 18(1). Retrieved from <https://commons.erau.edu/ibpp/vol18/iss1/2>



Brent Bowen

College: Aviation

Department: Aeronautical Science

Research Area: Measurement of airline operational performance and quality; Collegiate aviation education and scholarship; Research methods in aviation

Bennett, M., Bowen, B., Bowen, E., Holt, T. B., & Luedtke, J. (2018). Airline customer satisfaction 2015-2017 results.

In *2018 Clute International Academic Conferences Washington DC Proceedings*. Washington, DC: Clute Institute.

Bennett, M., Bowen, B., Watson, H., Holt, T. B., & Luedtke, J. (2018). *A longitudinal analysis on the cyclical pattern of the US airline industry*. Presented at the 30th Annual Ethnographic and Qualitative Research Conference, Las Vegas, NV.

Bowen, B., Burgess, S., & Bowen, E. (2018). *Final report to the Ministry of Education* (Final Report) (p. 28). Abu Dubai, UAE: Ministry of Education.

Bowen, B. D., Bennett, M., Boettcher, A., Groh, D., Groh, T., Luedtke, J., & Ritchie, S. (2018). *Putting students in the front and center: Exploring and refining student-centered learning techniques*. Presented at the Clute International Academic Conference on Business, Washington, DC.

Bowen, B. (2018). Study shows airline quality rating at record high. Interview by P. LeBeau. [Video]. *Executive Edge*.

CNBC. Retrieved from <https://www.cnbc.com/video/2018/04/09/study-shows-airline-quality-rating-at-record-high.html>

Bowen, B., & Headley, D. (2018). *The national airline quality rating*. Wichita, KS: W. Frank Barton School of Business.

Bowen, B., & Headley, D. (2018). *The national airline quality rating*. Presented at the National Press Club, Washington, DC.

- Bowen, B., Watson, H., Bennett, M., Ehrensperger, D., Holt, T. B., Luedtke, J., & Perry, J. C. (2018). Impact factor and scholarly research: An examination of marketing analysis on scholarly research. In *2018 Clute International Academic Conferences Washington DC Proceedings*. Washington, DC: Clute Institute.
- Bowen, E., & Bowen, B. (2018). *Decline and fall of the B.A. in Psychology: Fad or paradigm shift?* Presented at the 30th Annual Convention of the Association for Psychological Science, San Francisco, CA.
- Bowen, E., & Bowen, B. (2018). *Leadership decision-making and consumer perceptions: Can the public influence change?* Presented at the 30th Annual Convention of the Association for Psychological Science, San Francisco, CA.
- Elliott, C., & Bowen, B. (Contributor). (2018). A top airline critic shares his air travel secrets. *USA TODAY*. Retrieved from <https://www.usatoday.com/story/travel/flights/2018/09/09/air-travel-advice-aqr-airline-ratings/1215758002/>
- Elliott, C., & Bowen, B. (Contributor). (2018). The best and worst airlines to fly during the holidays. *Forbes*. Retrieved from <https://www.forbes.com/sites/christopherelliott/2018/11/25/best-and-worst-airlines-to-fly-during-the-holidays/>
- Gottwald, M., Bennett, M., Bowen, B. D., Bowen, E., Brown, J., Coleman, E., ... Waldock, W. (2018). Discovering the data of safety: Embry-Riddle's aviation safety and security archives. In *2018 Clute International Academic Conferences Washington DC Proceedings*. Washington, DC: Clute Institute.
- Halsey III, A., & Bowen, B. (Contributor). (2018). FAA says: We're a safety agency, not a creature comfort agency. *The Washington Post*. Retrieved from https://www.washingtonpost.com/local/trafficandcommuting/faa-tells-airline-passengers-were-a-safety-agency-not-a-creature-comfort-agency/2018/07/03/1684e1fc-3f49-11e8-974f-aacd97698cef_story.html
- Halsey III, A., & Bowen, B. (Contributor). (2018). Will the FAA come to the rescue of cramped fliers? *The Washington Post*. Retrieved from https://www.washingtonpost.com/amphhtml/local/trafficandcommuting/will-the-faa-come-to-the-rescue-of-cramped-fliers/2018/02/24/b35401a4-166b-11e8-92c9-376b4fe57ff7_story.html

Pohl, J., & Bowen, B. (Contributor). (2018). Deadly Scottsdale TPC plane crash: Experts say weight might have been an issue. *USA TODAY*. Retrieved from <https://www.usatoday.com/story/news/nation-now/2018/04/13/scottsdale-tpc-plane-crash-weight-possibly-issue/516310002/>

Watson, H., Bowen, B., Ehrensperger, D., Holt, T. B., & Luedtke, J. (2018). *Research benefits for scholarly authors being published on a public forum*. Presented at the 21st Annual American Association of Behavioral and Social Sciences Conference, Las Vegas, NV.

Watson, H., Bowen, B., Luedtke, J., & Holt, T. (2018). *Marketing analysis of scholarly journals in a social world*. Presented at the ERAU Discovery Day, Prescott, AZ.



Erin Bowen

College: Arts & Sciences

Department: Behavioral & Safety Science

Research Areas: Aviation psychology and safety; Behavioral and attitudinal markers of organizational safety; Statistical modeling and data integration for organizational effectiveness; Survey design; Training and assessment

Gazica, M., Bowen, E., McCarson, M., & Chadwell, K. (2018). Called to safety? Individual and combined effects of safety climate and occupational callings on aviator safety performance. *Journal of Aviation/Aerospace Education & Research*, 28(1), 1–24. <https://doi.org/10.15394/jaaer.2018.1763>

Bowen, E. (2018). *Decline and fall of the B.A. in Psychology: Fad or paradigm shift?* Presented at the 30th Annual Convention of the Association for Psychological Science, San Francisco, CA.

Bowen, E. (2018). Decoding the human error black box: Integrating psychology & safety. In R. Olawoyin (Ed.), *Safety Leadership and Professional Development* (pp. 429–432). Park Ridge, IL: American Society of Safety Professionals.

Bowen, E. (2018). *Leadership decision-making and consumer perceptions: Can the public influence change?* Presented at the 30th Annual Convention of the Association for Psychological Science, San Francisco, CA.

Bowen, E. (2018). *Psychology's role in strengthening procedural compliance*. Invited presentation at the Regional Airline Association Annual Convention, Long Beach, CA.

Bowen, E., & Sabin, E. (2018). *Advancing dialogue between aviation and healthcare to improve system safety*. Paper presented at The Society for Industrial and Organizational Psychology 33rd Annual Conference, Chicago, IL.

Bowen, E., Williams, W., & Roseano, L. (2018). *Procedural and training challenges for low altitude operations*. Presented at the 97th Annual Meeting of the Transportation Research Board, Washington, DC.

FAA declines to regulate seat size. (2018). *New York Times*. Retrieved from <https://www.nytimes.com/2018/07/06/travel/faa-plane-seat-size.html>

McMullen, S. A., Ison, D., Bowen, E., Henderson, T., & Young, J. (2018). From sensors to knowledge: The challenge of training the next generation of data analysts. In *Proceedings of the SPIE Defense + Security Conference and Exhibition, Next Generation Analyst VI Session*. Orlando, FL.

Tired of tiny seat and no legroom on flights? Don't expect it to change. (2018). [Radio]. *All Things Considered*. National Public Radio.



Leeann Chen

College: Arts & Sciences

Department: Humanities & Communications

Research Areas: Foreign-language and Chinese as a foreign language pedagogy; Study abroad; College writing in a specialized discipline

Chen, L. (2018, September). *What can they tell us: Upper-level students' errors in attributive clause*. Paper presented at the 3rd Harvard International Conference on Chinese Pedagogy, Cambridge, MA.



J. Furman Daniel, III

College: Security & Intelligence

Department: Intelligence Studies & Global Affairs

Research Areas: International relations; Strategy; Military history

Daniel III, J. F. (2018). *Fiction as a wargame?* Presented at the Connections Wargaming Conference, Washington, DC.

Daniel III, J. F. (2018). *Lincoln and linedrives: Baseball and political participation*. Presented at the Midwest Political Association Annual Meeting, Chicago, IL.

Daniel III, J. F. (2018). *Problem solving in international security*. Presentation presented at the Georgetown University National Security and Counterintelligence Institute, Washington, DC.

Daniel III, J. F., & Musgrave, P. (2018). Analysis | What 'The West Wing' tells us about the West Wing. *The Washington Post*. Retrieved from <https://www.washingtonpost.com/news/monkey-cage/wp/2018/01/22/what-the-west-wing-tells-us-about-the-west-wing/>



Nick Devereux

College: Arts & Sciences

Department: Physics & Astronomy

Research Areas: Astronomy; Theoretical computer science and applied mathematics

Devereux, N. (2018). Photoionization modelling of the giant broad-line region in NGC 3998. *Monthly Notices of the Royal Astronomical Society*, 473(3), 2930–2938. <https://doi.org/10.1093/mnras/stx2537>



Hillary Eaton

College: Arts & Sciences

Department: Biology

Research Areas: Microbiology; Bioremediation; Toxicology

Eaton, H., Benson, C., Valente, M., & Turner-Rathbone, C. (2018). *Tracking wildlife in the Verde River: Using environmental DNA, a new tool for biodiversity assessment*. Presented at the Natural History Institute, Prescott, AZ.

Eaton, H., Benson, C., Valente, M., & Turner-Rathbone, C. (2018). *Tracking wildlife in the Verde River: Using environmental DNA, a new tool for biodiversity assessment*. Presented at the PechaKucha Night, Prescott, AZ.

Eaton, H., Benson, C., Valente, M., & Turner-Rathbone, C. (2018). *Wildlife forensics: Using eDNA and genetic sequencing to track wildlife populations*. Presented at the ERAU Parent's Weekend, Prescott, AZ.

Geier, J. A., Benson, C., Valente, M., Eaton, H., & Turner-Rathbone, C. (2018). *Testing the ability of environmental DNA and 16S rRNA metabarcoding to assess vertebrate biodiversity in Fossil Creek, AZ*. Presented at Northern Arizona University, Flagstaff, AZ.

Turner-Rathbone, C., Eaton, H., Benson, C., & Valente, M. (2018). *The future of biodiversity assessment: Using environmental DNA and next-generation sequencing to characterize biological communities in the central highlands of Arizona*. Presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.



Teresa M. Eaton

College: Arts & Sciences

Department: Biology & Chemistry

Research Areas: Solid-state chemistry; Inorganic synthesis; Materials science; Radioactive elements; Gas-phase chemistry; Crystallography; Laser spectroscopy; Protein engineering

Carter, K. P., Jian, J., Pyrch, M. M., Forbes, T. Z., Eaton, T. M., Abergel, R. J., ... Gibson, J. K. (2018). Reductive activation of neptunyl and plutonyl oxo species with a hydroxypyridinone chelating ligand. *Chemical Communications*, 54(76), 10698–10701. <https://doi.org/10.1039/c8cc05626a>



David Ehrensperger

Department: Hazy Library & Learning Center

Research Areas: Interdisciplinary scholarship and collaboration; Open access/institutional repositories; Ethics— environmental and otherwise; and Metaphysics

Bloom, R. W., & Ehrensperger, D. (Eds.). (2018). *International Bulletin of Political Psychology*. Prescott, AZ: Embry Riddle Aeronautical University. Retrieved from <https://commons.erau.edu/ibpp/>

Ehrensperger, D. (Host), Bowen, B.D. (Guest), & Tomasovitch, P. (Video Editor). (2018). The Airline Quality Rating (AQR) and alternative metrics [Mpv]. *ERAU Prescott's Scholarly Communication Corner*. Retrieved from <https://commons.erau.edu/pr-corner/4>

Ehrensperger, D. (Host), Casey, A.M. (Guest), & Tomasovitch, P. (Video Editor). (2018). Scholarly Commons: Past, present, and future [Mpv]. *ERAU Prescott's Scholarly Communication Corner*. Retrieved from <https://commons.erau.edu/pr-corner/1>

Ehrensperger, D. (Host), Pope Robbins, L. (Guest), & Tomasovitch, P. (Video Editor) (2018). Open educational resources and the academic community [Mpv]. *ERAU Prescott's Scholarly Communication Corner*. Retrieved from <https://commons.erau.edu/pr-corner/3>

Ehrensperger, D. (Host), Rodensky, D. (Guest), & Tomasovitch, P. (Video Editor). (2018). Scholarly Commons: Nuts & bolts [Mpv]. *ERAU Prescott's Scholarly Communications Corner*. Retrieved from <https://commons.erau.edu/pr-corner/2>



Thomas Field

College: Security & Intelligence

Department: Intelligence Studies & Global Affairs

Research Areas: International history of Latin America; Cold War in the Third World;
US diplomatic history; Contemporary Bolivian history

Field, T. (2018). Alliance for progress. In G. Martel (Ed.), *Encyclopedia of Diplomacy*. New York, NY: John Wiley & Sons.

Field, T. (2018). *Reluctant empire: The 1965 Bolivian mine massacre and the United States*. Presented at the 65th Annual Conference of the Rocky Mountain Council for Latin American Studies, Reno, NV: Rocky Mountain Council for Latin America.

Field, T. (2018). Review of “*The Kennedy Administration and the battle over foreign aid: The untold story of the Clay Committee*” by Andre David and Michael Hom. Retrieved December 3, 2018, from <https://networks.h-net.org/node/28443/discussions/1773362/h-diplo-article-review-764-%E2%80%9Ckennedy-administration-and-battle>

Field, T. C. (2018). Transnationalism meets empire: The AFL-CIO, development, and the private origins of Kennedy’s Latin American labor program. *Diplomatic History*, 42(2), 305–334. <https://doi.org/10.1093/dh/dhw063>

Nichols, C. M., Field, T. C., Stephanson, A., & Milne, D. (2018). Roundtable - David Milne, Worldmaking: The Art and Science of American Diplomacy. *Journal of American Studies*, 52(3), 828–846. <https://doi.org/10.1017/S0021875818000944>



Michele Gazica

College: Arts & Sciences

Department: Behavioral & Safety Science

Research Areas: Occupational health and safety; Meaningful work - the work-family interface, Work stress; Organizational behavior and leadership; Assessment methods: development and validation

Gazica, M. (2018). *The influence of occupational callings on work-family enrichment*. Poster presented at the 33rd Annual Conference of Society for Industrial & Organizational Psychology, Chicago, IL.

Gazica, M., Bowen, E., McCarson, M., & Chadwell, K. (2018). Called to safety? Individual and combined effects of safety climate and occupational callings on aviator safety performance. *Journal of Aviation/Aerospace Education & Research*, 28(1), 1–24. <https://doi.org/10.15394/jaaer.2018.1763>

Gazica, M., McCarson, A., & Chadwell, K.A-M. (2018). *Effects of climate and callings on aviation safety*. Poster presented at the 33rd Annual Conference of Society for Industrial & Organizational Psychology, Chicago, IL.

Gazica, M., Powers, S., & Irgens, M. (2018). Well-being among Arizona lawyers: Survey finds attorneys stressed but satisfied. *Arizona Attorney*, 55(1), 26–32. Retrieved from <http://www.azattorneymag-digital.com/azattorneymag/201809?pg=29&lm=1535814616000>

Gazica, M., Powers, S., & Kessler, S. (2018). Occupational stress and the legal profession. In P. Spector (Ed.), *New directions in occupational stress*. Lexington, KY.



Javad Gorjidoz

College: Arts & Sciences

School of Business

Research Areas: Economic impact analysis; Pilot shortages

Yimga, J., & Gorjidoz, J. (2018). *Airline code-sharing and capacity utilization*. Paper presented at the WEI International Academic Conference, Barcelona, Spain.

Yimga, J., & Gorjidoz, J. (2018). *Airline schedule padding and consumer choice behavior*. Paper presented at the Annual Meeting of the Missouri Valley Economic Association, Memphis, TN.

Yimga, J., & Gorjidoz, J. (2018). *Airline schedule padding and consumer choice behavior*. Paper presented at the 22nd Air Transport Research Society World Conference, Seoul, Korea.



Melissa Gottwald

Department: Robertson Safety Institute

Research Areas: Archives; Aviation history

Gottwald, M., Bennett, M., Bowen, B. D., Bowen, E., Brown, J., Coleman, E., ... Waldock, W. (2018). Discovering the data of safety: Embry-Riddle's aviation safety and security archives. In *2018 Clute International Academic Conferences Washington DC Proceedings*. Washington, DC: Clute Institute.



Andri Gretarsson

College: Arts & Sciences

Department: Physics and Astronomy

Research Areas: Laser optics and optical coatings; methods and tools of long baseline interferometric gravitational wave detection; methods and tools of radio interferometry for cosmology; instrumentation for low noise "table-top" experiments in physics and "backyard" radio astronomy

Abernathy, M., Harry, G., Newport, J., Fair, H., Kinley-Hanlon, M., Hickey, S., ... Hough, J. (2018). Bulk and shear mechanical loss of titania-doped tantala. *Physics Letters A*, 382(33), 2282–2288.

<https://doi.org/10.1016/j.physleta.2017.08.007>

Gretarsson, A., Jones, P., & Singleton, D. (2018). Gravity's light in the shadow of the Moon. *International Journal of Modern Physics D*, 27(14), 1847021. <https://doi.org/10.1142/S0218271818470211>

Gretarsson, E. M., & Gretarsson, A. M. (2018). Three methods for characterizing thermo-optic noise in optical cavities. *Physical Review D*, 98(12), 122004. <https://doi.org/10.1103/PhysRevD.98.122004>

The LIGO Scientific Collaboration and the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., ... Zweizig, J. (2018). GW170817: Measurements of neutron star radii and equation of state. *Physical Review Letters*, 121(16), 161101. <https://doi.org/10.1103/PhysRevLett.121.161101>

Elizabeth Gretarsson

College: Engineering

Department: Electrical, Computer & Software Engineering

Gretarsson, E. M., & Gretarsson, A. M. (2018). Three methods for characterizing thermo-optic noise in optical cavities. *Physical Review D*, 98(12), 122004. <https://doi.org/10.1103/PhysRevD.98.122004>



Jon Haass

College: Security & Intelligence

Department: Cyber Intelligence & Security

Research Areas: Cyber intelligence threat hunting; Cyber threat sharing; Aviation cyber; security; Internet of things security

Chaudhry, J., Bashir, A. K., Ahmed, S. H., Haass, J., & Zheng, G. (2018). Enabling technologies for post market surveillance of medical devices: Is blockchain, SDN or a legacy network best for post-market surveillance of medical devices? *IEEE Internet Policy Newsletter*. Retrieved from <https://internetinitiative.ieee.org/newsletter/march-2018/enabling-technologies-for-post-market-surveillance-of-medical-devices>

Haass, J. (2018). A framework and taxonomy for aviation cybersecurity. In *2018 IEEE National Aerospace and Electronics Conference (NAECON)*. Dayton, OH: IEEE.

Haass, J. (2018). *Machine learning applied to intrusion detection systems*. Presented at the 5th International Conference on Artificial Intelligence, Las Vegas, NV.

Kessler, C., Craiger, J., & Haass, J. (2018). A taxonomy framework for maritime cybersecurity: A demonstration using the automatic identification system. *TransNav, International Journal on Marine Navigation and Safety Of Sea Transportation*, 12(3). Retrieved from http://www.transnav.eu/Article_A_Taxonomy_Framework_for_Maritime_Kessler,47,826.html



Brenda Haven

College: Engineering

Department: Mechanical Engineering

Research Areas: Jet engine propulsion

Haven, B. A. (2018). Engine component design: Combustion systems. In *Aircraft Engine Design* (Third edition, pp. 387–500). Reston, Virginia: American Institute of Aeronautics & Astronautics, Inc.

Mattingly, J. D., Heiser, W. H., Boyer, K. M., Haven, B. A., & Pratt, D. T. (2018). *Aircraft engine design* (Third edition). Reston, Virginia: American Institute of Aeronautics & Astronautics, Inc.



Michelle Hight

College: Aviation

Department: Aeronautical Science

Research Areas: Drones and integration into the NAS; Aviation augmented reality; Performance-based navigation

Aleksandrovsky, G., & Hight, M. P. (2018). *Difference in landing gear between the C340, C182, and DA42NG*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.

Boucher, C., & Hight, M. P. (2018). *Turbocharged aircraft engines*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.

Bowman, J., & Hight, M. P. (2018). *Autopilot malfunctions*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.

Boyle, I., & Hight, M. P. (2018). *General Electric CF34*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.

- Hight, M. P., & Coleman, E. J. (2018). *Helicopter crashworthiness: Are certification standards adequate?* Paper presented at the 2018 Collegiate Aviation Conference & Expo, Dallas, TX.
- Hight, M. P., & Perry, J. C. (2018). *Pilot source study*. Paper presented at the 2018 Collegiate Aviation Conference & Expo, Dallas, TX.
- Hutmacher, M., & Hight, M. P. (2018). *Hydraulic systems of the Boeing 737 and Airbus 320*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Hutto, J., & Hight, M. P. (2018). *Electronic flight control systems: Airbus fly-by-wire*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Klinkman-Sinatra, B., & Hight, M. P. (2018). *Prodigy flight deck: Phenom 300*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Lee, A., & Hight, M. P. (2018). *Solar impulse 2: Energy solar cells & batteries*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Lee, C. J., & Hight, M. P. (2018). *Aircraft control systems: Side stick vs yoke*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Lucas, J., & Hight, M. P. (2018). *The return of supersonic air travel*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Masangcay, M., & Hight, M. P. (2018). *Boeing 787 hydraulic systems*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Munroe, G., & Hight, M. P. (2018). *Boeing 787 wing anti-ice systems*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Nyamu, B., Bowen, B. D., & Hight, M. P. (2018). *Free turbine reverse flow*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.

- O'Conner, R., & Hight, M. P. (2018). *Evolution of winglets on Boeing 737 aircraft*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Owen, L., & Hight, M. P. (2018). *TCAS versus ACAS X*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Penna, D., Huston, J., Perry, J. C., Young, J., Parker, M., & Luedtke, J. (2018). *Detecting small unmanned aircraft in controlled airspace with automatic dependent surveillance broadcast*. Poster presented at the ERAU Discovery Day, Prescott, AZ.
- Perry, J. C., & Hight, M. P. (2018). *Integrating automatic dependent surveillance broadcast and drone net in unmanned traffic management operations*. Paper presented at the 2018 Collegiate Aviation Conference & Expo, Dallas, TX.
- Ponter, J., Parker, M., & Sestak, T. A. (2018). *Practical applications for augmented reality in aviation*. Poster presented at ERAU Discovery Day, Prescott, AZ.
- Schirmer, R., & Hight, M. P. (2018). *Boeing 787 battery issue*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Smith, D., & Hight, M. P. (2018). *United flight 232 and advancement in aircraft system redundancy*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Smith, G. M., Hight, M. P., & Smith, M. (2018). *2018 pilot source study*. Washington, DC: Federal Aviation Administration.
- Thomas, S., & Hight, M. P. (2018). *Boeing versus Airbus wingtip design on long range aircraft*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.
- Woytus, K., & Hight, M. P. (2018). *Evolution of the autopilot system*. Poster presented at the ERAU Undergraduate Research Institute Symposium, Prescott, AZ.



Timothy Holt

College: Aviation

Department: Applied Aviation Sciences

Research Areas: Aviation safety; Accident investigation; Airport management; Anti-terrorism/Security management; Aviation/flight training and education; Aviation human factors (fatigue, communication, etc.); Military, operations management; Strategic management; System safety management; Unmanned aircraft systems (UAS)

Bennett, M., Bowen, B., Bowen, E., Holt, T. B., & Luedtke, J. (2018). Airline customer satisfaction 2015-2017 results. In *2018 Clute International Academic Conferences Washington DC Proceedings*. Washington, DC: Clute Institute.

Bennett, M., Bowen, B., Watson, H., Holt, T. B., & Luedtke, J. (2018). *A longitudinal analysis on the cyclical pattern of the US airline industry*. Paper presented at the 30th Annual Ethnographic and Qualitative Research Conference, Las Vegas, NV.

Bowen, B., Watson, H., Bennett, M., Ehrensperger, D., Holt, T. B., Luedtke, J., & Perry, J. C. (2018). Impact factor and scholarly research: An examination of marketing analysis on scholarly research. In *2018 Clute International Academic Conferences Washington DC Proceedings*. Washington, DC: Clute Institute.

Gottwald, M., Bennett, M., Bowen, B. D., Bowen, E., Brown, J., Coleman, E., ... Waldock, W. (2018). Discovering the data of safety: Embry-Riddle's aviation safety and security archives. In *2018 Clute International Academic Conferences Washington DC Proceedings*. Washington, DC: Clute Institute.

Ivanova, D., Ehrensperger, D., James, C. N., Luedtke, J., Sinclair, M., Perry, J., ... Holt, T. B. (2018). *UAS Instrumentation platform for STEM education*. Presented at the 2nd Annual Faculty Awards Banquet, Prescott, AZ.

Perry, J. C., Nilsson, S., Young, J., Holt, T. B., Spencer, B., & Luedtke, J. (2018). *Automated unmanned traffic management: A comprehensive and economical solution to safety integrating unmanned aircraft into the National Airspace System*. Paper presented at the AUVSI XPONENTIAL Conference, Denver, CO.

Watson, H., Bowen, B., Ehrensperger, D., Holt, T. B., & Luedtke, J. (2018). *Research benefits for scholarly authors being published on a public forum*. Paper presented at the 21st Annual American Association of Behavioral and Social Sciences Conference, Las Vegas, NV.



Padraig Houlahan

College: Arts & Sciences

Department: Physics & Astronomy

Research Areas: ATC virtual radar systems; Using microcomputers for undergraduate research projects

Houlahan, P. (2018). Lightning detection with SPICE. *The Physics Teacher*, 56.

Keeley, B., Keeley, A. T., & Houlahan, P. (2018). Ridge number in bat ears is related to both guild membership and ear length. *PLoS ONE*, 13(7), e0200255. <https://doi.org/10.1371/journal.pone.0200255>



Brennan Hughey

College: Arts & Sciences

Department: Physics & Astronomy

Research Areas: Astroparticle physics; Gravitational physics; Cosmology

Abbott, B. P., Abbott, R., Abbott, T. D., Abernathy, M. R., Acernese, F., Ackley, K., ... Collaboration, V. (2018). All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. *Classical and Quantum Gravity*, 35(6), 065009. <https://doi.org/10.1088/1361-6382/aaab76>

Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Shandera, S. (2018). Search for sub-solar mass ultracompact binaries in Advanced LIGO's first observing run. *Physical Review Letters*, 121(23), 231103. <https://doi.org/10.1103/PhysRevLett.121.231103>

Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Zweizig, J. (2018). GW170817: Measurements of neutron star radii and equation of state. *Physical Review Letters*, 121(16), 161101. <https://doi.org/10.1103/PhysRevLett.121.161101>

- Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Zweizig, J. (2019). Properties of the binary neutron star merger GW170817. *Physical Review*, *X9*(1), 011001. <https://doi.org/10.1103/PhysRevX.9.011001>
- ANTARES, IceCube, LIGO, Collaborations, V., Albert, A., Andre, M., ... Zweizig, J. (2018). Search for multi-messenger sources of gravitational waves and high-energy neutrinos with Advanced LIGO during its first observing run, Antares and IceCube. *ArXiv:1810.10693 [Astro-Ph]*. Retrieved from <http://arxiv.org/abs/1810.10693>
- Collaboration, T. L. S., Collaboration, the V., Abbott, B. P., Abbott, R., Abbott, T. D., Abraham, S., ... Zweizig, J. (2018). Binary black hole population properties inferred from the first and second observing runs of Advanced LIGO and Advanced VIRGO. *ArXiv E-Prints*, arXiv:1811.12940.
- LIGO Scientific Collaboration and Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., ... Zweizig, J. (2018). Gw170817: Implications for the stochastic gravitational-wave background from compact binary coalescences. *Physical Review Letters*, *120*(9), 091101. <https://doi.org/10.1103/PhysRevLett.120.091101>
- Team, T. F. G. B. M., Collaboration, T. L. S., Collaboration, the V., Burns, E., Goldstein, A., Hui, C. M., ... Zweizig, J. (2018). A fermi gamma-ray burst monitor search for electromagnetic signals coincident with gravitational-wave candidates in Advanced LIGO's first observing run. *ArXiv:1810.02764 [Astro-Ph]*. Retrieved from <http://arxiv.org/abs/1810.02764>
- The LIGO Scientific Collaboration and the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., ... Zweizig, J. (2018). GW170817: Measurements of neutron star radii and equation of state. *Physical Review Letters*, *121*(16), 161101. <https://doi.org/10.1103/PhysRevLett.121.161101>
- The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Abraham, S., ... Zweizig, J. (2018). GWTC-1: A gravitational-wave transient catalog of compact binary mergers observed by LIGO and VIRGO during the first and second observing runs. *ArXiv:1811.12907 [Astro-Ph, Physics:Gr-Qc]*. Retrieved from <http://arxiv.org/abs/1811.12907>

- The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Abraham, S., ... Zweizig, J. (2018). Searches for continuous gravitational waves from fifteen supernova remnants and fomalhaut b with Advanced LIGO. *ArXiv:1812.11656 [Astro-Ph, Physics:Gr-Qc]*. Retrieved from <http://arxiv.org/abs/1812.11656>
- The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., ... Zweizig, J. (2018). A search for tensor, vector, and scalar polarizations in the stochastic gravitational-wave background. *Physical Review Letters*, 120(20). <https://doi.org/10.1103/PhysRevLett.120.201102>
- The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., ... Zweizig, J. (2018). Constraints on cosmic strings using data from the first Advanced LIGO observing run. *Physical Review D*, 97(10). <https://doi.org/10.1103/PhysRevD.97.102002>
- The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., ... Zweizig, J. (2018). Full band all-sky search for periodic gravitational waves in the O1 LIGO data. *Physical Review D*, 97(10). <https://doi.org/10.1103/PhysRevD.97.102003>
- The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., ... Zweizig, J. (2018). Search for gravitational waves from a long-lived remnant of the binary neutron star merger GW170817. *ArXiv:1810.02581 [Astro-Ph, Physics:Gr-Qc]*. Retrieved from <http://arxiv.org/abs/1810.02581>
- The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., ... Zweizig, J. (2018). Tests of general relativity with GW170817. *ArXiv:1811.00364 [Gr-Qc]*. Retrieved from <http://arxiv.org/abs/1811.00364>



Dorothea Ivanova

College: Aviation

Department: Applied Aviation Sciences

Research Areas: Ice cloud parameterizations and aircraft icing; Mesoscale computer modeling of the North American monsoon over Arizona

Ivanova, D. (2018). *A tale of several hurricanes and their interaction with the monsoon: A modeling study*. Paper presented at the 30th Conference on Climate Visibility and Change/98th Annual AMS Meeting, Austin, TX.

Retrieved from <https://ams.confex.com/ams/98Annual/meetingapp.cgi/Paper/336646>

Ivanova, D. (2018). *Teaching with visualizations, models, and online data: Tracking the onset, propagation and variability of the North American monsoon*. Paper presented at the 27th Symposium on Education, Austin, TX. Retrieved from <https://ams.confex.com/ams/98Annual/meetingapp.cgi/Paper/336614>

Ivanova, D., Ehrensperger, D., James, C. N., Luedtke, J., Sinclair, M., Perry, J., ... Holt, T. B. (2018). *UAS Instrumentation platform for STEM education*. Presented at the Scholarship of Learning, Prescott, AZ.

Kaplan, M., & Ivanova, D. (2018). *Excellence in research: Dynamics of orographic effects on major wildfires that occurred in the Southwest U.S. under diverse mesoscale environments* (Grant Proposal No. 2018 National Science Foundation Grant Proposal).

Kobold, C., & Ivanova, D. (2018). *Modes of monsoon precipitation in Arizona and New Mexico*. Presented at ERAU Discovery Day, Prescott, AZ.

Kobold, C., & Ivanova, D. (2018). *Investigations of moisture partitioning between Arizona and New Mexico during the North American monsoon and the role of the ocean and the sea surface temperature*. Presented at the NASA Space Grant Symposium, Tucson, AZ.



Preston Jones

College: Arts & Sciences

Department: Physics & Astronomy

Research Areas: Gravity; Quantum field theory

Gretarsson, A., Jones, P., & Singleton, D. (2018). Gravity's light in the shadow of the moon. *International Journal of Modern Physics D*, 27(14), 1847021. <https://doi.org/10.1142/S0218271818470211>

Jones, P., McDougall, P., Ragsdale, M., & Singleton, D. (2018). Scalar field vacuum expectation value induced by gravitational wave background. *Physics Letters B*, 781, 621–625. <https://doi.org/10.1016/j.physletb.2018.04.055>



Eileen Landis-Groom

College: Arts & Sciences

Department: Humanities & Communication

Research Areas: Travel literature; Teaching writing, Creative writing

Landis-Groom, E. (2018). Mrs. Leibensperger. In *The Black Box*. Prescott, AZ: Embry-Riddle Aeronautical University.

Landis-Groom, E. (2018). *Revolving a college composition course around Ota Benga: The Pygmy in the zoo*. Presented at the Annual Statewide Conference of AETA, Chandler, AZ.



Jackie Luedtke

College: Aviation

Department: Applied Aviation Sciences

Research Areas: Aviation safety; Aviation management; Effects of marketing in aviation; Service quality in aviation; Women's contributions to aviation; Retention issues; Pedagogical issues in higher education

Bennett, M., Bowen, B., Bowen, E., Holt, T. B., & Luedtke, J. (2018). Airline customer satisfaction 2015-2017 results. In *2018 Clute International Academic Conferences Washington DC Proceedings*. Washington, DC: Clute Institute.

Bennett, M., Bowen, B., Watson, H., Holt, T. B., & Luedtke, J. (2018, February). *A longitudinal analysis on the cyclical pattern of the US airline industry*. Presented at the 30th Annual Ethnographic and Qualitative Research Conference, Las Vegas, NV.

Bowen, B. D., Bennett, M., Boettcher, A., Groh, D., Groh, T., Luedtke, J., & Ritchie, S. (2018). *Putting students in the front and center: Exploring and refining student-centered learning techniques*. Presented at the Clute International Academic Conference on Business, Washington, DC.

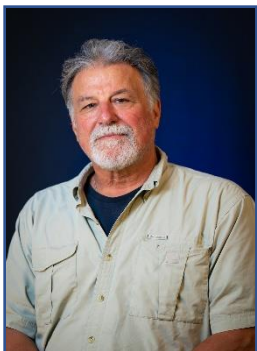
Bowen, B., Watson, H., Bennett, M., Ehrensperger, D., Holt, T. B., Luedtke, J., & Perry, J. C. (2018). Impact factor and scholarly research: An examination of marketing analysis on scholarly research. In *2018 Clute International Academic Conferences Washington DC Proceedings*. Washington, DC: Clute Institute.

Holt, T., Luedtke, J., Carr, R., Perry, J., Hight, M., Schindler, C., & Ward, P. (2018). General aviation hypoxia and reporting statistics. *The Journal of Aviation Technology and Engineering*. 8(2). Dec 2018.

Huston, J., Penna, D., Perry, J. C., Young, J., Luedtke, J., & Parker, M. (2018, March). *The future of unmanned traffic management: Transforming and combining technologies to implement commercial unmanned aircraft operations in controlled airspace*. Poster presented at the ERAU Discovery Day, Prescott, AZ.

Ivanova, D., Ehrensperger, D., James, C. N., Luedtke, J., Sinclair, M., Perry, J., ... Holt, T. B. (2018). *UAS Instrumentation platform for STEM education*. Presented at the Scholarship of Learning Faculty Awards Banquet, Prescott, AZ.

- Lutte, B., Luedtke, J., & Morrison, S. (2018). *Women in aviation workforce*. Paper presented at the Conference on Diversity in Aviation, Columbus, OH.
- Penna, D., Huston, J., Perry, J. C., Young, J., Parker, M., & Luedtke, J. (2018, March). *Detecting small unmanned aircraft in controlled airspace with automatic dependent surveillance broadcast*. Poster presented at the ERAU Discovery Day, Prescott, AZ.
- Perry, J. C., Spencer, B., & Luedtke, J. (2018, September). *Integrating automatic dependent surveillance broadcast and drone net in unmanned traffic management operations: Just how accurate are they?* Paper presented at the 2018 Collegiate Aviation Conference & Expo, Dallas, TX.
- Ward, P., Holt, T. B., Luedtke, J., & Perry, J. (2018a). *Hypoxia statistics and training for pilots*. Poster presented at the ERAU Discovery Day, Prescott, AZ.
- Ward, P., Holt, T. B., Luedtke, J., & Perry, J. (2018b). *Hypoxia statistics and training for pilots*. Presented at the NASA Space Grant Symposium, Tucson, AZ.
- Watson, H., Bowen, B., Ehrensperger, D., Holt, T. B., & Luedtke, J. (2018). *Research benefits for scholarly authors being published on a public forum*. Presented at the 21st Annual American Association of Behavioral and Social Sciences Conference, Las Vegas, NV.
- Watson, H., Bowen, B., Luedtke, J., & Holt, T. (2018). *Marketing analysis of scholarly journals in a social world*. Presented at the ERAU Discovery Day, Prescott, AZ.



Alan Malnar

College: Arts & Sciences

Department: Humanities & Communication

Research Areas: 20th century American poet, Robinson Jeffers

Malnar, A. (2018). *Celebrating National Poetry Month*. Webinar presented for the Peter Lang International Academic Publisher's Monthly Morning Discussion for Librarians.

Malnar, A. (2018). *The poet and the hawk*. Workshop presented at the 2018 Writing the Rockies Conference, Gunnison, CO.



Kaela Martin

College: Engineering

Department: Aerospace Engineering

Research Areas: Satellite dynamics; Engineering education

Martin, K. M. (2018). *Creating effective learning activities for the flipped classroom*. Presented at the Lily Conference on Evidence-Based Teaching and Learning, Anaheim, CA.

Martin, K. M., & Gallimore, J. (2018). *Flipping space mechanics: Comparing a traditional and less traditional classroom*. Paper presented at SciTech 2018, Kissimmee, FL.

Martin, K. M., & Gallimore, J. (2018). *It's not rocket science: The flipped classroom in space mechanics*. Paper presented at the ASEE Annual Conference, Salt Lake City, UT.

Martin, K. M., Mihaylov, J., Spear, R., & Landau, D. (2018). *Julia language ephemeris and physical constants reader for solar system bodies*. Paper presented at SciTech 2018, Kissimmee, FL.

Miskioglu, E. E., & Martin, K. M. (2018). *Work in progress: Got intuition? Exploring student intuition in response to technology-aided problem solving*. Paper presented at the ASEE Annual Conference, Salt Lake City, UT.



Juan Merkt

College: Aviation

Department: Aeronautical Science

Research Areas: Energy management training; Aerospace physiology; Aviation program accreditation; Aviation curriculum development

Merkt, J. (2018). *Energy management: What pilots can learn from biologists*. Presented at the Wildlife Society, Prescott Student Chapter, Prescott, AZ.

Merkt, J. (2018). *From the top down: Integrating energy management, angle of attack control, and flying qualities awareness to prevent loss of control in flight*. Paper presented at the 2018 Collegiate Aviation Conference & Expo, Dallas, TX.



Sarah Nilsson

College: Aviation

Department: Aeronautical Science

Research Areas: Aviation and drone law

Nilsson, S. (2018). *Got a drone for Christmas? Experts say new users should keep a few things in mind* [Newspaper].

Retrieved from <https://www.dcourier.com/news/2018/jan/14/got-drone-christmas/>

Nilsson, S. (2018). *Planning for death*. Workshop presented for LEAD, Prescott, AZ.

Nilsson, S. (2018). *Turning a hobby into a business: Key considerations for sUAS* [Online]. Retrieved from

<https://news.erau.edu/headlines/turning-a-hobby-into-a-business-key-considerations-for-suas>

Nilsson, S., Copeland, E., & Buskirk, T. (2018). *Remote pilots' council meeting*. Presentation and Panel at the UAS Summit and Expo, Mesa, AZ.

Nilsson, S., Copeland, E., & Lamb, T. (2018). *UAS: Laws and AZ LEA guidance*. Presented at the AUVSI, Phoenix, AZ.

- Nilsson, S., & Ledermann, M. (2018). *ATC privatization . . . legally speaking . . . a good idea?* Paper and Poster presented at the National Committee on Undergraduate Research, Prescott, AZ.
- Nilsson, S. (2018). Legal matters: Dexter A&P. *FAA Scottsdale FSDO. Airworthiness Newsletter*.
- Nilsson, S. (2018). *Federal, state and local policies in UAS workshop*. Presented at the Arizona Geographic Information Council Education and Training Symposium, Prescott, AZ.
- Nilsson, S. (2018). Why reinvent the wheel or drone law in the case at bar. *American Leadership and Policy Foundation Quarterly Update*.
- Nilsson, S. (2018). *UAS: Today and tomorrow*. Speaker at Parent's Weekend, Prescott, AZ.
- Nilsson, S. (2018). *UAS: Today and tomorrow*. Presented at the Ninety-Nines, Prescott, AZ.
- Nilsson, S. (2018). *Eye see you up there*. Keynote Address presented at the UAS Day at Arizona Western College, Yuma, AZ.
- Nilsson, S., & Copeland, E. (2018). *The FAA Reauthorization Act of 2018 and how it pertains to UAS*. Presented at the Arizona UAS Summit and Expo, Mesa, AZ.
- Nilsson, S., & Copeland, E. (2018). *The FAA Reauthorization Act of 2018 and how it pertains to UAS*. Presented for the FAASTeam at the Southern Arizona Rescue Association, Tucson, AZ.
- Nilsson, S., & Parker Hight, M. (2018). *Progress not perfection*. Keynote Address presented at the Girls in Aviation Day, Prescott, AZ.
- Nilsson, S., Roggow, B. J., Copeland, E., & Underwood, T. (2018). *WINGS seminar on runway incursion and surface deviation avoidance*. Presented for FAASafety, Prescott, AZ.



Curtis Peacock

College: Arts & Sciences

Department: Humanities & Communication

Research Areas: Jazz rhythm and music from the “Golden Age of Bands”

Peacock, C. (2018). *Titan moon sonata (for tuba and piano)*. Cedartown, GA: Potenza. Retrieved from

<http://www.potenzamusic.com/titan-moon-sonata-147572.cfm>



Jennah Perry

College: Aviation

Department: Applied Aviation Sciences

Research Areas: Unmanned traffic management; Education and training; Educational leadership; UAS, ATC

Bowen, B., Watson, H., Bennett, M., Ehrensperger, D., Holt, T. B., Luedtke, J., & Perry, J. C. (2018). Impact factor and scholarly research: An examination of marketing analysis on scholarly research. In *2018 Clute International Academic Conferences Washington DC Proceedings*. Washington, DC: Clute Institute.

Ehrensperger, D., James, C. N., Ivanova, D., Sinclair, M., Luedtke, J., Holt, T., ... Harris, N. (2018). *Metrological sensors incorporated into a UAS pedagogical purpose*. Poster presented at the ERAU Discovery Day, Prescott, AZ.

Hight, M. P. & Coleman, E. J., & Perry, J. C. (2018). *Helicopter crashworthiness: Are certification standards adequate?* Paper presented at the 2018 Collegiate Aviation Conference & Expo, Dallas, TX.

Hight, M. P., & Perry, J. C. (2018). *2018 pilot source study*. Paper presented at the 2018 Collegiate Aviation Conference & Expo, Dallas, TX.

- Huston, J., Penna, D., Perry, J. C., Young, J., Luedtke, J., & Parker, M. (2018, March). *The future of unmanned traffic management: Transforming and combining technologies to implement commercial unmanned aircraft operations in controlled airspace*. Poster presented at the ERAU Discovery Day, Prescott, AZ.
- Ivanova, D., Ehrensperger, D., James, C. N., Luedtke, J., Sinclair, M., Perry, J., ... Holt, T. (2018). *Meteorological sensors incorporated into a UAS for pedagogical purposes*. Presented at the Scholarship of Learning Faculty Awards Banquet, Prescott, AZ.
- Penna, D., Huston, J., Perry, J. C., Young, J., Parker, M., & Luedtke, J. (2018). *Detecting small unmanned aircraft in controlled airspace with automatic dependent surveillance broadcast*. Poster presented at the ERAU Discovery Day, Prescott, AZ.
- Perry, J. C., Nilsson, S., & Young, J. L. (2018). *UTM: A comprehensive and economical solution to safely integrating unmanned aircraft into the National Airspace System*. Presented at the AUXVI xponential 2018, Denver, CO.
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- Perry, J. C., Spencer, B., & Luedtke, J. (2018). *Integrating automatic dependent surveillance broadcast and dronenet in unmanned traffic management operations: Just how accurate are they?* Paper presented at the 2018 Collegiate Aviation Conference & Expo, Dallas, TX.
- Ward, P., Holt, T. B., Luedtke, J., & Perry, J. (2018). *Hypoxia statistics and training for pilots*. Poster presented at the ERAU Discovery Day, Prescott, AZ.
- Ward, P., Holt, T. B., Luedtke, J., & Perry, J. (2018). *Hypoxia statistics and training for pilots*. Presented at the NASA Space Grant Symposium, Tucson, AZ.



Laura Pope Robbins

Department: Hazy Library and Learning Center

Research Areas: Usability; Copyright; Anime

Ehrensperger, D. (Host), Pope Robbins, L. (Guest), & Tomasovitch, P. (Video Editor) (2018). Open educational resources and the academic community [Mpv]. *ERAU Prescott's Scholarly Communication Corner*. Retrieved from <https://commons.erau.edu/pr-corner/3>

Pope Robbins, L. (2018). SAO/NASA Astrophysics Data System. *The Charleston Advisor*, 20(2), 42–46.
<https://doi.org/10.5260/chara.20.2.42>



Ed Post

College: Engineering

Department: Electrical, Computer & Software Engineering

Research Areas: Design and optimization of planar microwave circuits and devices

Post, E., & Silage, D. (2018). Incorporating PlutoSDR in the communication laboratory and classroom: Potential or pitfall? In *Proceedings of the ASEE National Convention*. Washington, DC: ASEE. Retrieved from <https://www.asee.org/public/conferences/106/papers/21580/view>



Rustin Reed

College: Arts & Sciences

Department: Behavioral & Safety Science

Research Areas: Industrial hygiene; Occupational safety and health; Data science and health monitoring

Cauda, E., Chubb, L., Reed, R., & Stepp, R. (2018). Evaluating the use of a field-based silica monitoring approach with dust from copper mines. *Journal of Occupational and Environmental Hygiene*, 15(10), 732–742.

<https://doi.org/10.1080/15459624.2018.1495333>



Sam Siewert

College: Engineering

Department: Electrical, Computer & Software Engineering

Research Areas: Computer vision; Real-time, embedded, interactive systems

Perry, J. C., Nilsson, S., Young, J. L., & Siewart, S. (2018). *Automated unmanned traffic management: A comprehensive and economical solution to safely integrating unmanned aircraft into the National Airspace System*. Talk presented at the AUXVI xponential 2018, Denver, CO. Retrieved from

<https://www.xponential.org/xponential2018/public/SessionDetails.aspx?FromPage=Sessions.aspx&SessionID=1857&SessionDateID=39>

Siewart, S. (2018). *Social networking: Trolls, fakes and phishing, oh my!* (Position Paper). Prescott, AZ: Embry-Riddle Aeronautical University.

Siewart, S. (2018). *Why software engineers and developers should care about blockchain technology* (White Paper). Prescott, AZ: Embry-Riddle Aeronautical University.

Siewart, S. (2018). *Future transport: Potential of UAS and hyperloop*. Presented at the PMI Memphis Annual Professional Development Day, Memphis, TN.

Siewert, S., Andalibi, M., Bruder, S., Gentilini, I., & Buchholz, J. (2018). Drone net architecture for UAS traffic management multi-modal sensor networking experiments. In *2018 IEEE Aerospace Conference* (pp. 1–18). IEEE. <https://doi.org/10.1109/AERO.2018.8396716>

Siewert, S., Andalibi, M., Bruder, S., Gentilini, I., & Buchholz, J. (2018). *Drone net: Small UAS traffic management with computer vision*. Presented at the CU Denver Technical Colloquium, Electrical Engineering, Denver, CO.

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Mark Sinclair

College: Aviation

Department: Applied Aviation Sciences

Research Areas: Meteorology

Sinclair, M., & Johnson, M. (2018). *Changing wildfire conditions*. Presented at the NASA Space Grant Symposium, Tucson, AZ.

Towey, K. L., Booth, J. F., Frei, A., & Sinclair, M. R. (2018). Track and circulation analysis of tropical and extratropical cyclones that cause strong precipitation and streamflow events in the New York City watershed. *Journal of Hydrometeorology*, 19(6), 1027–1042. <https://doi.org/10.1175/JHM-D-17-0199.1>



Brent Solie

College: Arts & Sciences

Department: Mathematics

Research Areas: Geometric group theory

Solie, B. B. (2018). Primitivity of group rings of non-elementary torsion-free hyperbolic groups. *Journal of Algebra*, 493, 438–443. <https://doi.org/10.1016/j.jalgebra.2017.09.034>



Ahmed Sulyman

College: Engineering

Department: Electrical, Computer & Software Engineering

Research Areas: Wireless communications and networks; Millimeter-wave; 5G cellular technologies and the Internet of Things

Buck, S., & Sulyman, A. I. (2018). *Effects of solar radio emissions on outdoor propagation path loss models at 38 GHz bands for device-to-device communications*. Presented at the NSF mmWave Research Coordination Network (RCN) 4th Workshop, New York, NY.

Seleem, H., Sulyman, A. I., & Alsanie, A. (2018). Millimeter wave sparse channel estimation for device-to-device communications using Hadamard RF Codebook. In *2018 IEEE International Conference on Communications Workshops (ICC Workshops)* (pp. 1–5). <https://doi.org/10.1109/ICCW.2018.8403747>



Lance Traub

College: Engineering

Department: Aerospace Engineering

Research Areas: Applied and theoretical aerodynamics and instrumentation

Graham, M., Muradian, A., & Traub, L. W. (2018). Experimental study on the effect of gurney flap thickness on airfoil performance. *Journal of Aircraft*, 55(2), 897–904. <https://doi.org/10.2514/1.C034547>

Traub, L. W. (2018). Design of a low-cost rapid-prototyped wind-tunnel balance. *Journal of Aircraft*, 55(5), 2149–2153. <https://doi.org/10.2514/1.C034982>

Traub, L. W. (2018). Extending the leading-edge suction analogy to nonslender delta wings. *Journal of Aircraft*, 55(5), 2174–2177. <https://doi.org/10.2514/1.C034939>

Traub, L. W., & Okayama, S. (2018). Investigation of a morphable parawing for unmanned aerial vehicle application. *Journal of Aircraft*, 55(3), 1217–1230. <https://doi.org/10.2514/1.C034557>



Patricia Watkins

Department: Hazy Library and Learning Center

Research Areas: Competitive intelligence, International business

Watkins, P. (2018). Lynx Lake morn [Photograph]. In *Black Box 2018*. Prescott, AZ: Embry-Riddle Aeronautical University.

Watkins, P. (2018). San Giorgio Maggiore view from Grand Canal - Venice [Photograph]. In *Black Box 2018*. Prescott, AZ: Embry-Riddle Aeronautical University.

Watkins, P. (2018). The Black Bridge - Grand Canyon [Photograph]. In *Black Box 2018*. Prescott, AZ: Embry-Riddle Aeronautical University.

Watkins, P. (2018). Zen garden [Photograph]. In *Black Box 2018*. Prescott, AZ: Embry-Riddle Aeronautical University.

Watkins, P. (2018). *New partnerships: Librarian engagement & beyond*. Lightning Talk presented at the 125th Annual ASEE Conference, Salt Lake City, UT.

Watkins, P. (2018). *Reinforcing information fluency: Instruction collaboration in senior capstone lab course; Innovated uses of social media in information literacy education, library outreach and user engagement: An international perspective; Using a flipped lesson to improve information literacy outcomes in a first-year design class; and Understanding the significance of integrating codes and standards into the learning environment*. Panel moderator at the 125th Annual ASEE Conference, Salt Lake City, UT.



Jules Yimga

College: Arts & Sciences

School of Business

Research Areas: Industrial Organization (IO); Air transportation; Development economics; Applied econometrics

Yimga, J. (2018). Domestic code-sharing agreements and on-time performance: Evidence from the US airline industry. *Transport Policy*, 71, 14–27. <https://doi.org/10.1016/j.tranpol.2018.07.006>

Yimga, J. (2018). How much do consumers really value air travel on-time performance, and to what extent are airlines motivated to improve their on-time performance? *Economics of Transportation*, 14, 31–41. <https://doi.org/10.1016/j.ecotra.2018.01.003>

Yimga, J. (2018). Microfinance expansion and its effects on cost efficiency. *The Quarterly Review of Economics and Finance*, 69, 205–216. <https://doi.org/10.1016/j.qref.2018.03.006>

Yimga, J., & Gayle, P. (2018). *How much do consumers really value air travel on-time performance, and to what extent are airlines motivated to improve their on-time performance?* Presented at the 59th Annual Transportation Research Forum, Minneapolis, MN.

Yimga, J., & Goridooz, J. (2018). *Airline code-sharing and capacity utilization*. Presented at the WEI International Academic Conference, Barcelona, Spain.

Yimga, J., & Gorjidooz, J. (2018). *Airline schedule padding and consumer choice behavior*. Presented at the 22nd Air Transport Research Society World Conference, Seoul, Korea.



Michele Zanolin

College: Arts & Sciences

Department: Physics & Astronomy

Research Areas: Gravitational physics; Cosmology

Abbott, B. P., Abbott, R., Abbott, T. D., Abernathy, M. R., Acernese, F., Ackley, K., ... Collaboration, V. (2018). All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. *Classical and Quantum Gravity*, 35(6), 065009. <https://doi.org/10.1088/1361-6382/aaab76>

Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Shandera, S. (2018). Search for sub-solar mass ultracompact binaries in Advanced LIGO's first observing run. *Physical Review Letters*, 121(23), 231103. <https://doi.org/10.1103/PhysRevLett.121.231103>

Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Zweizig, J. (2018). GW170817: Measurements of neutron star radii and equation of state. *Physical Review Letters*, 121(16), 161101. <https://doi.org/10.1103/PhysRevLett.121.161101>

- Andresen, H., Müller, E., Janka, H.-T., Summa, A., Gill, K., & Zanolin, M. (2018). Gravitational waves from three-dimensional core-collapse supernova models: The impact of moderate progenitor rotation. *ArXiv:1810.07638 [Astro-Ph]*. Retrieved from <http://arxiv.org/abs/1810.07638>
- ANTARES, IceCube, LIGO, Collaborations, V., Albert, A., Andre, M., ... Zweizig, J. (2018). Search for multi-messenger sources of gravitational waves and high-energy neutrinos with Advanced LIGO during its first observing run, ANTARES and IceCube. *ArXiv:1810.10693 [Astro-Ph]*. Retrieved from <http://arxiv.org/abs/1810.10693>
- Collaboration, T. L. S., Collaboration, the V., Abbott, B. P., Abbott, R., Abbott, T. D., Abraham, S., ... Zweizig, J. (2018). Binary black hole population properties inferred from the first and second observing runs of Advanced LIGO and Advanced Virgo. *ArXiv E-Prints*, arXiv:1811.12940. Retrieved from <https://ui.adsabs.harvard.edu/#abs/arXiv:1811.12940>
- Fisher, R. P., Hughey, B., Howell, E., & Collaboration, L. (2018). Searching for fast radio bursts with the Advanced Laser Interferometer Gravitational-wave Observatory (LIGO). *American Astronomical Society Meeting Abstracts #231*, 231, 255.03. Retrieved from <https://ui.adsabs.harvard.edu/#abs/2018AAS...23125503F/abstract>
- Gill, K., Wang, W., Valdez, O., Szczepanczyk, M., Zanolin, M., & Mukherjee, S. (2018). Enhancing the sensitivity of searches for gravitational waves from core-collapse supernovae with a Bayesian classification of candidate events. *ArXiv:1802.07255 [Astro-Ph]*. Retrieved from <http://arxiv.org/abs/1802.07255>
- LIGO Scientific Collaboration and Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., ... Zweizig, J. (2018). GW170817: Implications for the stochastic gravitational-wave background from compact binary coalescences. *Physical Review Letters*, 120(9), 091101. <https://doi.org/10.1103/PhysRevLett.120.091101>
- Team, T. F. G. B. M., Collaboration, T. L. S., Collaboration, the V., Burns, E., Goldstein, A., Hui, C. M., ... Zweizig, J. (2018). A Fermi gamma-ray burst monitor search for electromagnetic signals coincident with gravitational-wave candidates in Advanced LIGO's first observing run. *ArXiv:1810.02764 [Astro-Ph]*. Retrieved from <http://arxiv.org/abs/1810.02764>

- The LIGO Scientific Collaboration and the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., ... Zweizig, J. (2018). GW170817: Measurements of neutron star radii and equation of state. *Physical Review Letters*, 121(16), 161101. <https://doi.org/10.1103/PhysRevLett.121.161101>
- The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Abraham, S., ... Zweizig, J. (2018). GWTC-1: A gravitational-wave transient catalog of compact binary mergers observed by LIGO and Virgo during the first and second observing runs. *ArXiv:1811.12907 [Astro-Ph, Physics:Gr-Qc]*. Retrieved from <http://arxiv.org/abs/1811.12907>
- The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Abraham, S., ... Zweizig, J. (2018). Searches for continuous gravitational waves from fifteen supernova remnants and fomalhaut b with Advanced LIGO. *ArXiv:1812.11656 [Astro-Ph, Physics:Gr-Qc]*. Retrieved from <http://arxiv.org/abs/1812.11656>
- The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., ... Zweizig, J. (2018). A Search for tensor, vector, and scalar polarizations in the stochastic gravitational-wave background. *Physical Review Letters*, 120(20). <https://doi.org/10.1103/PhysRevLett.120.201102>
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The LIGO Scientific Collaboration, the Virgo Collaboration, Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., ... Zweizig, J. (2018). Tests of general relativity with GW170817. *ArXiv:1811.00364 [Gr-Qc]*. Retrieved from <http://arxiv.org/abs/1811.00364>



Hong Zhan

College: Arts & Sciences

Department: Humanities & Communication

Research Area: Integrating technology in language; Language teaching and learning in virtual environments

Zhan, H., & Chen, L. (2018). Performing WeChat recording tasks in mixed-ability study abroad content courses. *Journal of Technology and Chinese Language Teaching*, 9(1), 15–34. Retrieved from <http://www.tclt.us/journal/abstractshow.php?id=86>

Zhan, H. (2018). *Using technology as both content and tool to empower students in personally meaningful learning of Chinese*. Presented at the CLTA, Washington, DC.

Zhan, H. (2018). *Augmented reality applications in the development of productive oral language skills in foreign language teaching and acquisition*. Presented at the 2018 ACET International Convention, Kansas City, MO.

Zhan, H. (2018). *Augmented reality applications in the development of productive oral skills of foreign languages*. Presented at the ACTFL 2018, New Orleans, LA.

NOTES ** NOTES ** NOTES ** NOTES ** NOTES ** NOTES ** NOTES

Initiated in 2005, the mission of Scholarly Speaking is to recognize the scholarly contributions of the Embry-Riddle Aeronautical University Prescott Campus Community.

This program is not an official record of all publications or scholarly activity at ERAU, Prescott.

Hazy Library and Learning Center Scholarly Speaking Planning Committee

David Ehrensperger (Chair), Linda Eisner, Joanne Evanoff, Kathy Hill, Laura Pope Robbins, Jessica Quarles,

Suzie Roth, Sarah Thomas, Peter Tomasovitch, Robin Vickery, Patricia Watkins

