



Welcome to the  
13th Annual

Scholarly  
Speaking  
2018



**EMBRY-RIDDLE**  
Aeronautical University  
PRESCOTT, ARIZONA



# Scholarly Speaking

March 29, 2018

## Program

### Welcome

Dr. Frank Ayers

*Chancellor*

### Author Recognition

Sarah Thomas

*Director, Hazy Library and Learning Center*

Dr. Richard Bloom

*Chief Academic Officer*

### Faculty Speakers

#### LIGO – Listening to the Sounds of Space Time

Dr. Michele Zanolin

*College of Arts and Sciences*

Dr. Brennan Hughey

*College of Arts and Sciences*

Dr. Andri Gretarsson

*College of Arts and Sciences*



**Bibliography  
of  
Publications & Presentations  
in 2017**

*Embry-Riddle Aeronautical University  
Prescott Campus Community*

**March 29, 2018**



## **Akhan Almagambetov**

**College: Engineering**

**Department: Computer, Electrical & Software Engineering**

**Research Area: Image processing, Computer vision, Intelligent transportation systems (ITS),  
Reconfigurable electronics**

Almagambetov, A., & Pavlina, J. M. (2017). Cross-sectional study of engineering student performance across different types of first-year digital logic design laboratories. In *FYEE 2017 Conference*. Daytona Beach, FL: ASEE. Retrieved from <http://fyee.asee.org/FYEE2017/papers/20892.pdf>



## **Mehran Andalibi**

**College: Engineering**

**Department: Mechanical Engineering**

**Research Area: Dynamics, Controls, Machine vision, Robotics**

Andalibi, M., & Chandler, D. M. (2017). *Automatic glare detection via photometric, geometric, and global positioning information*. Paper presented at the IS&T International Symposium on Electronic Imaging, Autonomous Vehicles and Machines, Burlingame, CA.

Andalibi, M., & Battaglia, D. M. (2017, February). *Benefits of problem-based learning in an introductory engineering programming course*. Paper presented at the Lilly Conference - Evidence-Based Teaching and Learning, Anaheim, CA.



## Quentin Bailey

**College:** Arts & Sciences

**Department:** Physics & Astronomy

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

Bailey, Q. G. (2017). *Astrophysical tests of spacetime symmetries*. Invited talk presented at the UCLA Physics and Astronomy Colloquium, Los Angeles, CA.

Bailey, Q. G. (2017). *Gravitational wave tests of spacetime symmetries*. Presented at the Workshop on Core Collapse Supernovae, their signatures in gravitational waves and their detection with ground-based laser interferometers, Pasadena, CA.

Bailey, Q. G., & Havert, D. (2017). Velocity-dependent inverse cubic force and solar system gravity tests. *Physical Review D*, 96(6). <https://doi.org/10.1103/PhysRevD.96.064035>

Bars, H. P.-L., Guerlin, C., Lasserri, R.-D., Ebran, J.-P., Bailey, Q. G., Bize, S., ... Wolf, P. (2017). Lorentz-symmetry test at Planck-scale suppression with nucleons in a spin-polarized 133 Cs cold atom clock. *Physical Review D*, 95 (7). <https://doi.org/10.1103/PhysRevD.95.075026>



## Catherine Benson

**College:** Arts & Sciences

**Department:** Biology & Chemistry

**Research Area:** Restoration ecology, Wildlife management

Benson, C. E., Carberry, B., & Langen, T. (2017). Public-private partnership wetland restorations benefit species of greatest conservation need and other wetland-associated wildlife. *Wetland Ecology and Management*, 25, 1–17. <https://doi.org/10.1007/s11273-017-9565-8>



## Richard Bloom

College: Arts & Sciences

Department: Behavioral & Safety Science

Research Area: 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. (2017). A gun in your pocket, and you're not glad to see me? [Review of the book *Miss Sloan*, by J. Madden]. *PsycCRITIQUES*, 62(11). <http://dx.doi.org/10.1037/a0040763>

Bloom, R. (2017). And the discussion continues. [Review of the book *Philosophy and psychiatry: Problems, intersections, and new perspectives*]. *PsycCRITIQUES*, 62(1). <http://dx.doi.org/10.1037/a0040668>

Bloom, R. (2017). Beyond good and evil? [Review of the book *Enhanced interrogation: Inside the minds and motives of the Islamic terrorists trying to destroy America*]. *PsycCRITIQUES*, 62(25). <http://dx.doi.org/10.1037/a0040858>

Bloom, R. (2017). Spilled ink or an inkblot of the soul? [Review of the book *Rorschach assessment of psychotic phenomena: Clinical, conceptual, and empirical developments*]. *PsycCRITIQUES*, 62(41). <http://dx.doi.org/10.1037/a0041062>





## **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., Holt, T. B., Luedtke, J., Olanganathan, R., & Quigley, K. (2017). *Differentiating the business model and attaining success: A case study of Singapore Airlines' strategies*. Paper presented at the IACB & ICE Clute Conferences: 2017, Las Vegas, NV.
- Bowen, B., Bowen, E. E., Headley, D., Fink, M., & Kuhn, M. (2017). *Airline quality and the consumer perception*. Paper presented at the 20th Annual American Association of Behavioral and Social Sciences Conference, Las Vegas, NV.
- Bowen, B., Bowen, E., Headley, D., Fink, M., & Kuhn, M. (2017). Attentiveness on airline quality as viewed by the domestic consumer. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>
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- Bowen, B., & Headley, D. (2017). *The airline quality report 2016* (Research Monograph). Washington, D.C.: National Press Club.
- Bowen, B., Holt, T. B., Luedtke, J., Fink, M., Burgess, S., Ison, D., & Watson, H. (2017). *Designing a virtual collaboratory: Accelerating research connectivity*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.
- Bowen, B., Luedtke, J., Bennett, M., Holt, T. B., & Headley, D. (2017). *The airline quality rating 2017: Results and impact factor*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.
- Bowen, B., Luedtke, J., Holt, T. B., Ehrensperger, D., & Watson, H. (2017). *Impact factor and scholarly research: The traditional media with a social media influence*. Poster presented at the 2017 American Association of Behavioral and Social Sciences Conference, Las Vegas, NV. Retrieved from <http://commons.erau.edu/publication/435>

## Brent Bowen —Continued

- Holt, T. B., Boettcher, A., Groh, T., Groh, D., Luedtke, J., Bowen, B., & Bowen, E. E. (2017). *A missing link? Assessing the connection between student research skills and capstone performance*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.
- Holt, T. B., Bowen, B., Luedtke, J., Groh, D., & Burgess, S. (2017). *The industry advisory board role as a virtual collaboratory for undergraduate research and capstone development*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.
- Holt, T. B., Luedtke, J., Bowen, B., Groh, D., & Bowen, E. (2017). *Measuring capstone outcomes for a continuous process enhancement paper*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.
- McIntire, S., Merkt, J., Luedtke, J., Holt, T. B., Bowen, B., & Brown, J. (2017). *Advancement in pedagogical foundations: Developing language proficiency for student success*. Paper presented at the 19th International Symposium on Aviation Psychology, Dayton, OH.
- Watson, H., Bowen, B., Ehrensperger, D., Holt, T. B., & Luedtke, J. (2017). *Impact factor and scholarly research: The traditional media with a social media influence*. Paper presented at the IACB & ICE Clute Conferences: 2017, Las Vegas, NV. Retrieved from <http://commons.erau.edu/publication/435>





## Erin Bowen

**College: Arts & Sciences**

**Department: Behavioral & Safety Science**

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

Bowen, B., Bowen, E. E., Headley, D., Fink, M., & Kuhn, M. (2017). *Airline quality and the consumer perception*. Paper presented at the 20th Annual American Association of Behavioral and Social Sciences Conference, Las Vegas, NV.

Bowen, E. E., & Roggow, B. J. (2017). *Longitudinal safety climate analysis: Modeling for enhanced organizational response*. Paper presented at the 19th International Symposium on Aviation Psychology, Dayton, OH.

Holt, T. B., Boettcher, A., Groh, T., Groh, D., Luedtke, J., Bowen, B., & Bowen, E. E. (2017). *A missing link? Assessing the connection between student research skills and capstone performance*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.

Sabin, E. J., & Bowen, E. E. (2017). *Organizational psychology can help medicine learn from aviation to improve safety*. Paper presented at the 29th Association for Psychological Science Annual Convention, Boston, MA.



## Nate Cloyd

**College: Arts & Sciences**

**Department: Humanities & Communication**

**Research Area: Critical theory, Cultural studies, Post-9/11 narratives, 20th Century American literature, Screen media, Rhetoric, Science fiction studies, Horror studies, and Writing studies**

Cloyd, N. J. (2017).

Fear and utopia in the millennial zombie: Digging deep inside Snyder's *Dawn of the Dead*. *Horror Studies*, 8(1), 61–77.





## J. Furman Daniel, III

College: Security & Intelligence

Department: Intelligence Studies & Global Affairs

Research Area: International relations, Strategy, Military history

Daniel III, J. F. (2017). Twilight warriors: The soldiers, spies, and special agents who are revolutionizing the American way of war. *United States Naval Institute. Proceedings; Annapolis*, 143(5), 155–156.

Daniel III, J. F., & Musgrave, P. (2017). Synthetic experiences: How popular culture matters for images of international relations. *International Studies Quarterly*, 61(3), 503–516. <https://doi.org/10.1093/isq/sqx053>



## Teresa M. Eaton

College: Arts & Sciences

Department: Biology & Chemistry

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

Abergel, R. J., de Jong, W. A., Deblonde, G. J.-P., Dau, P. D., Captain, I., Eaton, T. M., ... Gibson, J. K. (2017). Cleaving off uranyl oxygens through chelation: A mechanistic study in the gas phase. *Inorganic Chemistry*, 56(21), 12930–12937. <https://doi.org/10.1021/acs.inorgchem.7b01720>



## David Ehrensperger

**Department:** Hazy Library & Learning Center

**Research Area:** Interdisciplinary scholarship and collaboration, Open access/institutional repositories, Ethics— environmental and otherwise, and Metaphysics

Bowen, B., Luedtke, J., Holt, T. B., Ehrensperger, D., & Watson, H. . (2017). *Impact factor and scholarly research: The traditional media with a social media influence*. Poster presented at the 2017 American Association of Behavioral and Social Sciences Conference, Las Vegas, NV. Retrieved from <http://commons.erau.edu/publication/435>



## Thomas Field

**College:** Security & Intelligence

**Department:** Intelligence Studies & Global Affairs

**Research Area:** International history of Latin America, Cold War in the Third World, US diplomatic history, Contemporary Bolivian history

Field, T. (2017). *Bolivia, Latin America, and the third world project*. Paper presented at the Southwest Council of Latin American Studies 51st Annual Conference, Campeche, Mexico.

Field, T. (2017). *Bolivia tricontinental: Third world politics in Bolivia's cold war*. Paper presented at the Rocky Mountain Council on Latin American Studies, Salt Lake City, UT.

Field, T. (2017). Commentator at the International Graduate Student Conference on the Cold War, Santa Barbara, CA.

Field, T. (2017). Diplomacy, development and human rights in Cold War Latin America (Commentator). Arlington, VA: Society for Historians of American Foreign Relations.

Field, T. (2017). *From nonalignment to tricontinentalism: Latin America's third world*. Paper presented at the American Historical Association 131st Annual Meeting, Denver, CO.



## Thomas Field —Continued

- Field, T. (2017). Los retos de tercermundismo: La revolucion Boliviana desde La Habana y Praga. Paper presented at the 2nd International Symposium on the Cuban Revolution, Havana, Cuba: Cuban Institute of History.
- Field, T. (2017). *Presentation of book, Minas, balas, y gringos*. Invited talk presented at II Simposio, “La Revolucion Cubana,” Havana, Cuba.
- Field, T. (2017). Special session on archival research. Presented at the International Graduate Student Conference on the Cold War, Santa Barbara, CA.
- Field, T. (2017). *Truman’s response to the Bolivian revolution*. Invited talk presented at the Truman Legacy Symposium, Key West, FL.
- Field, T. (2017). *United States Delegate (XXI General Assembly and Commission Consultant)*. Panama City, Panama: Pan-American Institute of Geography and History.
- 



### Jonathan Gallimore

**College:** Arts & Sciences

**Department:** Behavioral & Safety Science

**Research Area:** Processing of perceptual and action features, Action representation, Selective attention, Short-term memory, Working memory, Dual task performance, Vision and perception, Human factors, Walkability

- Foley, T., Shannon, B., & Gallimore, J. (2017). *The effects of arming security personnel on perceptions of risk*. Paper presented at the 63rd Annual Conference of the American Society for Industrial Security, Las Vegas, NV.
- Gallimore, J., & Perry, J. (2017). *Aviation and simulation: One approach to fostering student pilot success*. Paper presented at the 19th International Symposium on Aviation Psychology, Dayton, OH.
- 



## **Michele Gazica**

**College: Arts & Sciences**

**Department: Behavioral & Safety Science**

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

Gazica, M. (2017). *Using time in the study of occupational health stress/health: A daily diary study*. Paper presented at the Southern Management Association 2017 Conference Meeting, St. Pete Beach, FL.



## **Javad Gorjidoz**

**College: Arts & Sciences**

**Department: Business**

**Research Area: Economic impact analysis, Pilot shortages**

Greenman, C., & Gorjidoz, J. (2017). Economic impact of World Bank aviation investment in Pacific island countries. *Journal of Economics & Public Finance*, 3(3), 343. <https://doi.org/10.22158/jepf.v3n3p343>

Vasigh, B., & Gorjidoz, J. (2017). *Engineering economics for aviation and aerospace*. New York, NY: Routledge.

Yimga, J., & Gorjidoz, J. (2017). *Airline code-sharing and capacity utilization: to what extent do airlines help fill each other's planes?* Paper presented at the 21st Air Transport Research Society World Conference, Antwerp, Belgium.





## Cindy Greenman

College: Arts & Sciences

Department: Business

Research Area: Ethics, Fraud, Accounting, Finance, Business

Greenman, C., & Gorjidoz, J. (2017). Economic impact of World Bank aviation investment in Pacific island countries.

*Journal of Economics & Public Finance*, 3(3), 343. <https://doi.org/10.22158/jepf.v3n3p343>

Greenman, C. (2017). Exploring the impact of artificial intelligence on the accounting profession. *Journal of Research in*

*Business, Economics and Management*, 8(3). Retrieved from <http://www.scitecresearch.com/journals/index.php/jrbem/article/view/1063/746>

Greenman, C., & Greenman, Z. (2017). Pharmaceutical fraud: Off-label marketing of drugs in the United States,

2009-2016. *Research in Economics and Management*, 2(5). <https://doi.org/10.22158/rem.v2n5p198>

Greenman, C., & Carreras, R. A. (2017). Singapore's dominance in the aviation industry in South East Asia. *The Journal of American Academy of Business, Cambridge*, 22(2).

Greenman, C., & Carreras, R. (2017). *Vietnam's vision of growth in the aeronautical industry*. Paper presented at the IACB & ICE Clute Conferences: 2017, San Diego, CA.





## **Dawn Groh**

**College: Aviation**

**Department: Aeronautical Science**

**Research Area: Use of relevant simulation to rehearse at risk scenarios that develop safe decision making skills, Best practices with industry advisory boards, Student centered teaching in the aviation classroom**

Holt, T. B., Boettcher, A., Groh, T., Groh, D., Luedtke, J., Bowen, B., & Bowen, E. E. (2017). *A missing link? Assessing the connection between student research skills and capstone performance*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.

Holt, T. B., Bowen, B. D., Luedtke, J., Groh, D., & Burgess, S. (2017). *The industry advisory board role as a virtual collaboratory for undergraduate research and capstone development*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.

Holt, T. B., Luedtke, J., Bowen, B. D., Groh, D., & Bowen, E. (2017). *Measuring capstone outcomes for a continuous process enhancement paper*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.



## **Jon Haass**

**College: Security & Intelligence**

**Department: Cyber Intelligence & Security**

**Research Area: Cyber Intelligence Threat Hunting, Cyber Threat Sharing, Aviation Cyber Security, Internet of Things Security**

Haass, J. (2017). *Educating the cyber security workforce*. Paper presented at Trust in 2017: In What & Whom Do We Trust? Bend, OR. Retrieved from <https://www.security2017.com/>

Haass, J. (2017). *Research opportunities in aviation cybersecurity*. Paper presented at the 96th Transportation Research Board Annual Meeting, Washington, DC.





## Timothy Holt

College: Aviation

Department: Applied Aviation Sciences

**Research Area: 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. D., Holt, T. B., Luedtke, J., Olanganathan, R., & Quigley, K. (2017). *Differentiating the business model and attaining success: A case study of Singapore Airlines' strategies*. Paper presented at the IACB & ICE Clute Conferences: 2017, Las Vegas, NV.
- Bowen, B. D., Ehrensperger, D., Holt, T. B., Luedtke, J., & Watson, H. (2017). The future outlook of social media usage for scholarly research. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>
- Bowen, B. D., Holt, T. B., Luedtke, J., Fink, M., Burgess, S., Ison, D., & Watson, H. (2017). *Designing a virtual collaboratory: Accelerating research connectivity*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.
- Bowen, B. D., Luedtke, J., Bennett, M., Holt, T. B., & Headley, D. (2017). *The Airline Quality Rating 2017: Results and impact factor*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.
- Bowen, B. D., Luedtke, J., Holt, T. B., Ehrensperger, D., & Watson, H. (2017). *Impact factor and scholarly research: The traditional media with a social media influence*. Poster presented at the 2017 American Association of Behavioral and Social Sciences Conference, Las Vegas, NV. Retrieved from <http://commons.erau.edu/publication/435>
- Diels, E., Holt, T. B., Luedtke, J., Merkt, J., & Schindler, C. (2017). *The utilization of peer mentorship and its positive impact on student retention*. Paper presented at the 20th Annual American Association of Behavioral and Social Sciences Conference, Las Vegas, NV.
- Holt, T. B. (2017). *A need for stronger partnerships among k-12 and postsecondary institutions*. Keynote address presented at the Project Lead the Way Arizona State Conference, Chandler, AZ.
- Holt, T. B. (2017). *Building a collaborating culture: A need for partnership among K-12 and postsecondary institutions*. Presented at the ACTEAZ Midwinter Leadership Conference, Prescott, AZ.



## Timothy Holt —Continued

- Holt, T. B., Boettcher, A., Groh, T., Groh, D., Luedtke, J., Bowen, B., & Bowen, E. E. (2017). *A missing link? Assessing the connection between student research skills and capstone performance*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.
- Holt, T. B., Bowen, B. D., Luedtke, J., Groh, D., & Burgess, S. (2017). *The industry advisory board role as a virtual collaboratory for undergraduate research and capstone development*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.
- Holt, T. B., Luedtke, J., & Schindler, C. (2017). The vulnerabilities of hypoxic events within general aviation. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>
- McIntire, S., Merkt, J., Luedtke, J., Holt, T. B., Bowen, B. D., & Brown, J. (2017). *Advancement in pedagogical foundations: Developing language proficiency for student success*. Paper presented at the 19th International Symposium on Aviation Psychology, Dayton, OH.
- Olanganathan, R., Holt, T. B., & Luedtke, J. (2017). *Modelling fatigue for management decision making: A case study*. Paper presented at the 29th Annual Ethnographic and Qualitative Research Conference (EQRC), Las Vegas, NV.
- Perry, J. C., Nilsson, S., Young, J. L., Holt, T. B., Spencer, B., & Luedtke, J. (2017). *An economic and feasible solution to integrating unmanned aircraft into the national airspace system*. Paper presented at the Arizona UAS Summit & Expo, Mesa, AZ.
- Perry, J. C., Young, J. L., Nilsson, S., Holt, T. B., Spencer, B., Cook, B., & Wilkerson, K.. (2017). *Unmanned air traffic control in a manned air traffic world: An innovative solution to integrating unmanned air traffic into controlled airspace*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.
- Perry, J., Luedtke, J., Little, A., Wilkerson, K., Cook, B., Hughes, H., & Holt, T. B. (2017). Incorporating digital learning tools in conjunction with air traffic control simulation. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>
- Perry, J., Luedtke, J., Spencer, B., & Holt, T. B. (2017). *Using SWIVL as an effective digital learning tool in air traffic control*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.
- Perry, J., Young, J. L., Luedtke, J., Cook, B., Hughes, H., Little, A., ... Valesco, A. (2017). Adopting unmanned flight operations into controlled airspace. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>



## Brennan Hughey

College: Arts & Sciences

Department: Physics & Astronomy

Research Area: Astroparticle physics, Gravitational physics and cosmology

Abbott, B. P., Abbott, R., Abbott, T. D., Abernathy, M. R., Acernese, F., Ackley, K., ... Collaboration, T. I. (2017). Search for gravitational waves associated with gamma-ray bursts during the first advanced LIGO observing run and implications for the origin of GRB 150906b. *The Astrophysical Journal*, 841(2), 89. <https://doi.org/10.3847/1538-4357/aa6c47>

Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Serra-Ricart, M. (2017). A gravitational-wave standard siren measurement of the Hubble constant. *Nature*, 551, 85–88. <https://doi.org/10.1038/nature24471>

Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Ubertini, P. (2017). Gravitational waves and gamma-rays from a binary neutron star merger: GW170817 and GRB 170817A. *The Astrophysical Journal*, 848, L13. <https://doi.org/10.3847/2041-8213/aa920c>

Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Wang, L. (2017). Upper limits on gravitational waves from Scorpius X-1 from a model-based cross-correlation search in advanced LIGO data. *The Astrophysical Journal*, 847, 47. <https://doi.org/10.3847/1538-4357/aa86f0>

Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Woudt, P. A. (2017). Multi-messenger observations of a binary neutron star merger. *The Astrophysical Journal*, 848, L12. <https://doi.org/10.3847/2041-8213/aa91c9>

Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Zweigig, J. (2017). GW170817: Observation of gravitational waves from a binary neutron star inspiral. *Physical Review Letters*, 119, 161101. <https://doi.org/10.1103/PhysRevLett.119.161101>



## Douglas Isenberg

College: Engineering

Department: Mechanical Engineering

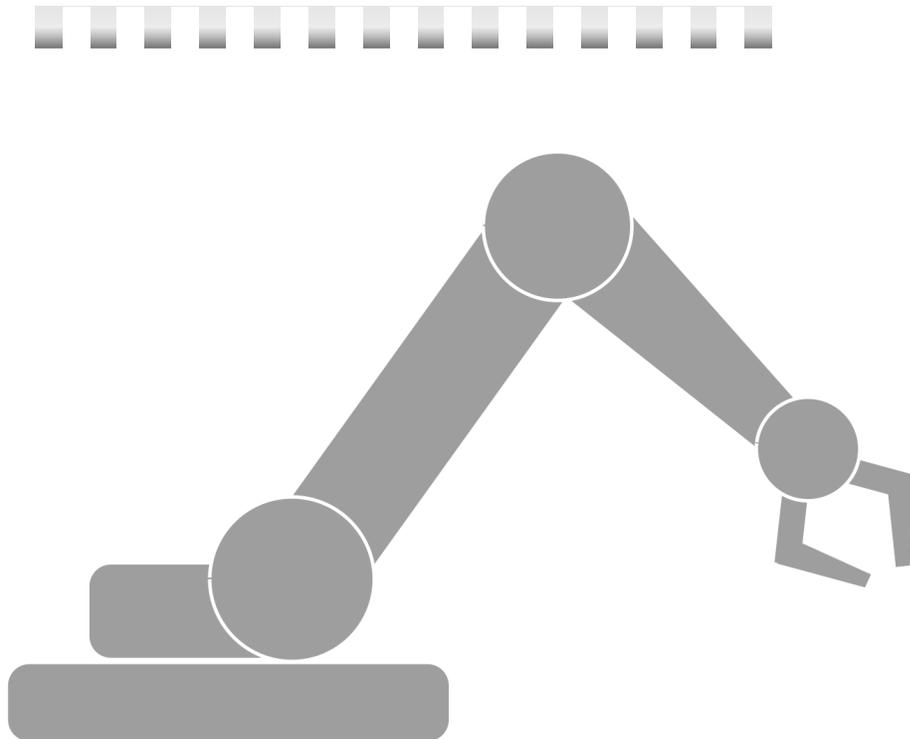
Research Area: System theory, Robot dynamics and control, Application of unit-quaternions to problems in kinematics, Dynamics, Control

Isenberg, D. (2017). A potential field inspired approach to attitude motion planning and unit-quaternions. In

*Proceedings of IEEE Southeastcon*. Charlotte, NC: IEEE. <https://doi.org/10.1109/SECON.2017.7925271>

Isenberg, D. (2017). A task space control law for free-floating space robots. In *Proceedings: 25th International*

*Conference on Systems Engineering: ISCEng 2017* (pp. 33–38). Las Vegas, NV: IEEE. <https://doi.org/10.1109/ISCEng.2017.8000000>





## **Dorothea Ivanova**

**College: Aviation**

**Department: Applied Aviation Sciences**

**Research Area: Ice cloud parameterizations and aircraft icing, Mesoscale computer modeling of the North American monsoon over Arizona**

Ivanova, D. (2017). *Make every water drop count: ERAU Weather Club environmental stewardship and water conservation educational campaign to protect Arizona's waters*. Paper presented at the 26th Symposium on Education, 97th Annual AMS Meeting, Seattle, WA.

Ivanova, D., & White, J. (2017). *WRF modeling of Hurricane Norbert record rainfall with monsoon flooding in Arizona*. Paper presented at the 29th Conference on Climate Variability and Change: 97th Annual AMS Meeting, Seattle, WA.

Johnson, M. D., & Ivanova, D. (2017). Cirrus cloud microphysics over Darwin, Australia. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>

Lanman, D., & Ivanova, D. (2017). Ice crystal parameterizations in Arctic Cirrus: Towards a better representation in global climate models. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>





## Curtis James

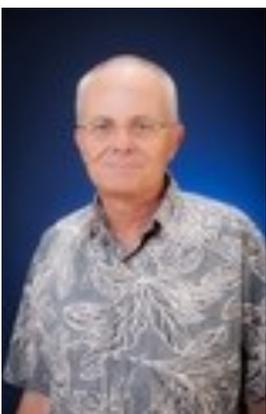
College: Aviation

Department: Applied Aviation Sciences

Research Area: Mesoscale meteorology, Mountain meteorology, Radar meteorology, Cloud dynamics

Plunkett, C., & James, C. (2017). *Simulations of convective flash flood events in southern Switzerland*. Paper presented at the NASA Space Grant Symposium, Tucson, AZ.

Plunkett, C., & James, C. (2017). *Simulation of convective flash flood events in southern Switzerland*. Paper presented at the 34th International Conference on Alpine Meteorology, Reykjavik, Iceland. Retrieved from <http://vedur.org/index.php/icam>



## Preston Jones

College: Arts & Sciences

Department: Physics & Astronomy

Research Area: Gravity, Quantum field theory

Jones, P., Gretarsson, A., & Singleton, D. (2017). Low frequency electromagnetic radiation coming from gravitational waves generated by neutron stars. *Physical Review D*, 96(12). <https://doi.org/10.1103/PhysRevD.96.124030>

Jones, P., McDougall, P., & Singleton, D. (2017). Particle production in a gravitational wave background. *Physical Review D*, 95(6). <https://doi.org/10.1103/PhysRevD.95.065010>

Wulandari, D., Triyanta, Kosasih, J. S., Singleton, D., & Jones, P. (2017). Localization of interacting fields in five-dimensional braneworld models. *International Journal of Modern Physics A*, 32(32), 1750191. <https://doi.org/10.1142/S0217751X17501913>



**Eileen Landis-Groom**

**College:** Arts & Sciences

**Department:** Humanities & Communication

**Research Area:** Travel literature, Teaching writing, Creative writing

Landis-Groom, E. (2017). *From image to narrative to voice*. Presented at the Arizona English Teachers' Association Conference, Phoenix, AZ.



**Wahyu Lestari**

**College:** Engineering

**Department:** Aerospace Engineering

**Research Area:** Structural health monitoring and damage detection of composite structures, Damage mechanics and failure analysis of composites, Analytical and experimental applied mechanics

Lestari, W., Bradshaw, R., & Horn, K. (2017). *Strain sensing in CFRP composites by electrical resistance measurement and digital image correlation*. Paper presented at the ASME 2017 IMECE: International Mechanical Engineering Congress & Exposition, Tampa, FL.





## Jacqueline Luedtke

**College: Aviation**

**Department: Applied Aviation Sciences**

**Research Area: 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. D., Holt, T. B., Luedtke, J., Olanganathan, R., & Quigley, K. (2017). *Differentiating the business model and attaining success: A case study of Singapore Airlines' strategies*. Paper presented at the IACB & ICE Clute Conferences: 2017, Las Vegas, NV.

Bowen, B. D., Ehrensperger, D., Holt, T. B., Luedtke, J., & Watson, H. (2017). The future outlook of social media usage for scholarly research. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>

Bowen, B. D., Holt, T. B., Luedtke, J., Fink, M., Burgess, S., Ison, D., & Watson, H. (2017). *Designing a virtual collaboratory: Accelerating research connectivity*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.

Bowen, B. D., Luedtke, J., Bennett, M., Holt, T. B., & Headley, D. (2017). *The airline quality rating 2017: Results and impact factor*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.

Bowen, B. D., Luedtke, J., Holt, T. B., Ehrensperger, D., & Watson, H. (2017). *Impact factor and scholarly research: The traditional media with a social media influence*. Poster presented at the 2017 American Association of Behavioral and Social Sciences Conference, Las Vegas, NV. Retrieved from <http://commons.erau.edu/publication/435>

Diels, E., Holt, T. B., Luedtke, J., Merkt, J., & Schindler, C. (2017). *The utilization of peer mentorship and its positive impact on student retention*. Paper presented at the 20th Annual American Association of Behavioral and Social Sciences Conference, Las Vegas, NV.

Holt, T. B., Boettcher, A., Groh, T., Groh, D., Luedtke, J., Bowen, B., & Bowen, E. E. (2017). *A missing link? Assessing the connection between student research skills and capstone performance*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.

Holt, T. B., Bowen, B. D., Luedtke, J., Groh, D., & Burgess, S. (2017). *The industry advisory board role as a virtual collaboratory for undergraduate research and capstone development*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.



## Jackie Luedtke —Continued

- Holt, T. B., Luedtke, J., Bowen, B. D., Groh, D., & Bowen, E. (2017). *Measuring capstone outcomes for a continuous process enhancement paper*. Paper presented at the Conference for Undergraduate Research Programs: Undergraduate Research Collaborations 2017, Flagstaff, AZ.
- Holt, T. B., Luedtke, J., & Schindler, C. (2017). The vulnerabilities of hypoxic events within general aviation. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>
- McIntire, S., Merkt, J., Luedtke, J., Holt, T. B., Bowen, B. D., & Brown, J. (2017). *Advancement in pedagogical foundations: Developing language proficiency for student success*. Paper presented at the 19th International Symposium on Aviation Psychology, Dayton, OH.
- Olanganathan, R., Holt, T. B., & Luedtke, J. (2017). *Modelling fatigue for management decision making: A case study*. Paper presented at the 29th Annual Ethnographic and Qualitative Research Conference (EQRC), Las Vegas, NV.
- Perry, J. C., Nilsson, S., Young, J. L., Holt, T. B., Spencer, B., & Luedtke, J. (2017). *An economic and feasible solution to integrating unmanned aircraft into the national airspace system*. Paper presented at the Arizona UAS Summit & Expo, Mesa, AZ.
- Perry, J. C., Young, J. L., Nilsson, S., Holt, T. B., Spencer, B., Cook, B., & Wilkerson, K. (2017). *Unmanned air traffic control in a manned air traffic world: An innovative solution to integrating unmanned air traffic into controlled airspace*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.
- Perry, J., Luedtke, J., Little, A., Wilkerson, K., Cook, B., Hughes, H., & Holt, T. B. (2017). Incorporating digital learning tools in conjunction with air traffic control simulation. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>
- Perry, J., Luedtke, J., Spencer, B., & Holt, T. B. (2017). *Using SWIVL as an effective digital learning tool in air traffic control*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.
- Perry, J., Young, J. L., Luedtke, J., Cook, B., Hughes, H., Little, A., ... Valesco, A. (2017). Adopting unmanned flight operations into controlled airspace. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>
- Watson, H., Bowen, B. D., Ehrensperger, D., Holt, T. B., & Luedtke, J. (2017). *Impact factor and scholarly research: The traditional media with a social media influence*. Presented at the IACB & ICE Clute Conferences: 2017, Las Vegas, NV. Retrieved from <http://commons.erau.edu/publication/435>
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## Alan Malnar

**College:** Arts & Sciences

**Department:** Humanities & Communication

**Research Area:** 20<sup>th</sup> century American poet, Robinson Jeffers

Malnar, A. (2017). *Voices of the Headland: Robinson Jeffers and the Bird of Prey* (Vol. 126). New York, NY: Peter Lang.



## Kaela Martin

**College:** Engineering

**Department:** Aerospace Engineering

**Research Area:** Satellite dynamics & Engineering education

Martin, K. M., & Battaglia, D. M. (2017). *Recapping class content with student video responses*. Paper presented at the 2017 ASEE Annual Conference, Columbus, OH. Retrieved from <https://www.asee.org/conferences-and-events/conferences/annual-conference/2017>

Miskioglu, E. E., & Martin, K. M. (2017). *Identifying factors that aid students in developing engineering intuition*. Paper presented at the AiChE Annual Meeting, Minneapolis, MN.

Miskioglu, E. E., & Martin, K. M. (2017). *Is the answer reasonable or ridiculous? Common factors among students who display high engineering intuition on technology-aided solutions*. Paper presented at the 2017 ASEE Annual Conference, Columbus, OH.



## Juan Merkt

**College: Aviation**

**Department: Aeronautical Science**

**Research Area: Energy management training, Aerospace physiology, Aviation program accreditation, Aviation curriculum development**

McIntire, S., Merkt, J., Luedtke, J., Holt, T. B., Bowen, B. D., & Brown, J. (2017). *Advancement in pedagogical foundations: Developing language proficiency for student success*. Paper presented at the 19th International Symposium on Aviation Psychology, Dayton, OH.

Merkt, J. (2017). *Energy management*. Panelist at the Aviation Accreditation Board International Annual Meeting, Kalamazoo, MI.

Merkt, J. (2017). *Energy safety management: Mitigating loss of control inflight*. Presented at the 30th National Training Aircraft Symposium (NTAS), Daytona Beach, FL. Retrieved from <http://commons.erau.edu/ntas/2017/presentations/2>

Merkt, J. (2017). *Energy safety management training*. Presented at the FAA Air Carrier Training, Aviation Rulemaking Committee Meeting, Fort Worth, TX.





## **Sarah Nilsson**

**College: Aviation**

**Department: Aeronautical Science**

**Research Area: Aviation and drone law**

Nilsson, S. (2017). *Drones across America: Unmanned aircraft systems (UAS) regulation and state laws*. Washington, D.C.: ABA Book Publishing.

Nilsson, S. (2017). *Drones: Not just toys*. Keynote address presented at the Arizona Geographic Information Council Education and Training Symposium, Prescott, AZ.

Nilsson, S. (2017). *Game of drones: Part 107 and the integration of UAS into the National Airspace System*. Panelist presented at the 2017 Forum on Air and Space Law Annual Meeting and Conference, Washington, D.C.

Nilsson, S., Stempihar, J., & Medina, J. (2017). *Hot topics: UAS law*. Presented at the 2017 AzAA Spring Conference, Prescott, AZ.

Nilsson, S., & Hawkins, A. (2017). *The law of the land: How UAS regulations at the state, federal level will shape the 2018 industry*. Panelist at the Arizona UAS Summit & Expo, Mesa, AZ.

Nilsson, S., Buskirk, T., & Copeland, E. (2017). *Remote pilots council meeting*. Panelist at the Arizona UAS Summit & Expo, Mesa, AZ.

Nilsson, S. (2017). *UAS law Part 1: UAS laws Part 2: FAA compliance philosophy: BasicMed*. Panelist at the Angel Flight West Tri-Wing Fly-In, Lake Havasu, AZ.

Nilsson, S., Nunes, J., Buskirk, T., & Copeland, E. (2017). *Updates to UAS law in AZ: How to protect yourself legally*. Presented at the AZ GIC Meeting, Phoenix, AZ.

Perry, J. C., Nilsson, S., Young, J. L., Holt, T. B., Spencer, B., & Luedtke, J. (2017). *An economic and feasible solution to integrating unmanned aircraft into the national airspace system*. Paper presented at the Arizona UAS Summit & Expo, Mesa, AZ.

Perry, J. C., Young, J. L., Nilsson, S., Holt, T. B., Spencer, B., Cook, B., & Wilkerson, K. (2017). *Unmanned air traffic control in a manned air traffic world: An innovative solution to integrating unmanned air traffic into controlled airspace*. Paper presented at the 70th Annual Collegiate Aviation Conference, Riverside, CA.



## **Michelle Parker**

**College: Aviation**

**Department: Aeronautical Science**

**Research Area: Drones and integration into the NAS, Aviation augmented reality, Performance –based navigation**

Parker, M. (2017). Sense-and-avoid technology of the past, present and future: What does commercial drone use mean for manned air crews? *General Aviation Security*, 7(2), 4–8.



## **Curtis Peacock**

**College: Arts & Sciences**

**Department: Humanities & Communication**

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

Catozzi, A. (Composer), & Peacock, C. (Arranger). (2017). *Beelzebub for tuba and band*. New York, NY: Carl Fischer.

Catozzi, A. (Composer), & Peacock, C. (Arranger). (2017). *Beelzebub for tuba and piano*. New York, NY: Carl Fischer.

Peacock, C. (2017). *Olosabut*. Tuba soloist in America the Beautiful. Prescott, AZ: Yavapai College Performing Arts Center.



## Jennah Perry

**College:** Aviation

**Department:** Applied Aviation Sciences

**Research Area:** Unmanned traffic management, Education and training, Educational leadership, UAS, ATC

Gallimore, J., & Perry, J. (2017). Aviation and simulation: One approach to fostering student pilot success. Paper presented at the 19th International Symposium on Aviation Psychology, Dayton, OH.

Perry, J. C., Nilsson, S., Young, J. L., Holt, T. B., Spencer, B., & Luedtke, J. (2017). *An economic and feasible solution to integrating unmanned aircraft into the national airspace system*. Paper presented at the Arizona UAS Summit & Expo, Mesa, AZ.

Perry, J. C., Young, J. L., Nilsson, S., Holt, T. B., Spencer, B., Cook, B., & Wilkerson, K. . (2017). *Unmanned air traffic control in a manned air traffic world: An innovative solution to integrating unmanned air traffic into controlled airspace*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.

Perry, J., Luedtke, J., Little, A., Wilkerson, K., Cook, B., Hughes, H., & Holt, T. B. (2017). Incorporating digital learning tools in conjunction with air traffic control simulation. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>

Perry, J., Luedtke, J., Spencer, B., & Holt, T. B. (2017). *Using SWIVL as an effective digital learning tool in air traffic control*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.

Perry, J., Young, J. L., Luedtke, J., Cook, B., Hughes, H., Little, A., ... Valesco, A. (2017). Adopting unmanned flight operations into controlled airspace. In *Proceedings of the Arizona-Nevada Academy of Science* (Vol. 52). Glendale, AZ: Arizona-Nevada Academy of Science. Retrieved from <https://arizona.openrepository.com/arizona/bitstream/10150/623079/1/2017ProceedingsFinal.pdf>



## Laura Pope Robbins

**Department:** Hazy Library and Learning Center

**Research Area:** Usability, Copyright, and Anime

Pope Robbins, L. (2017). NASA PubSpace. *The Charleston Advisor*, 18(4), 41–44. <https://doi.org/10.5260/chara.18.4.41>



## John Post

**College:** Engineering

**Department:** Electrical, Computer & Software Engineering

**Research Area:** Design and optimization of planar microwave circuits and devices

Post, J. E. (2017). *A near-space research experience for high school students*. Paper presented at the 2017 ASEE Annual Conference and Exposition, Columbus, OH.



## Brian Rachford

**College:** Arts & Sciences

**Department:** Physics & Astronomy

**Research Area:** Astronomy

Fan, H., Welty, D. E., York, D. G., Sonnentrucker, P., Dahlstrom, J. A., Baskes, N., ... Zhao, G. (2017). The behavior of selected diffuse interstellar bands with molecular fraction in diffuse atomic and molecular clouds. *The Astrophysical Journal*, 850(2), 194. <https://doi.org/10.3847/1538-4357/aa9480>



## Rustin Reed

College: Arts & Sciences

Department: Behavioral & Safety Science

Research Area: Industrial hygiene, Occupational safety and health, Data science and health monitoring

Lutz, E., Reed, R., Lee, V., & Burgess, J. (2017). Comparison of diesel and biodiesel exhaust exposures in an underground mine. *Journal of Occupational and Environmental Hygiene*, 14(7).

Reed, R. (2017). *High-risk exposure groups to DPM with MSHA sampling data*. Paper presented at the 2017 SME Annual Conference and Expo, Denver, CO.

Reed, R. (2017). *Mining MSHA's diesel particulate matter sample data for golden insights*. Paper presented at the American Industrial Hygiene Conference and Exposition, Seattle, WA.

Reed, R. (2017). *Relationships among MSHA regulatory actions and injuries*. Paper presented at the 2017 SME Annual Conference and Expo, Denver, CO.

Reed, R., & Lutz, E. (2017). Review of occupational health and safety interventions and research tailored to vulnerable agriculture, forestry, and fishing workers. *International Journal of Public Health Research*, 5(2), 20–30.





## **Joel Schipper**

**College: Engineering**

**Department: Electrical, Computer & Software Engineering**

**Research Area: Toxic exposures**

Schipper, J. D., Schauben, J. L., & Dankel, D. D. (2017). Advances in a knowledge-based decision support system for the diagnosis of human toxic exposures. *Clinical Toxicology*, 55(5), 507.



## **Timothy Sestak**

**College: Aviation**

**Department: Aeronautical Science Department**

**Research Area: Wingsuits**

Sestak, T. A. (2017). *The effect of surface materials and morphology on wingsuit aerodynamics* (PhD). Embry-Riddle Aeronautical University, Daytona Beach, FL.





## Brooke Shannon

**College:** Security & Intelligence

**Department:** Intelligence Studies & Global Affairs

**Research Area:** Knowledge and information practices, East Africa, Research methodologies, Discourse analysis, Phenomenology, Hermeneutical analysis

- Foley, T., Shannon, B., & Gallimore, J. (2017). *The effects of arming security personnel on perceptions of risk*. Paper presented at the 63rd Annual Conference of the American Society for Industrial Security, Las Vegas, NV.
- Shannon, B. (2017). *Emergence of a possible reading culture for Kenyan women: Results from a phenomenological study*. Paper presented at the African Studies Association Conference, Chicago, IL.
- Shannon, B. (2017). *Sex trafficking: Framing the issue*. Invited speaker at the 2017 Investigative Reporters & Editors Conference, Phoenix, AZ.



## Sam Siewert

**College:** Engineering

**Department:** Electrical, Computer & Software Engineering

**Research Area:** Computer Vision, real-time, embedded, interactive systems

- Siewert, S. (2017). *Beyond the textbook: Embedded code*. Paper presented at the 40th Annual AAS Guidance and Control Conference, Breckenridge, CO.
- Siewert, S., & ICARUS Group. (2017). *Drone net: Big data, machine vision and learning challenge and opportunity*. Paper presented at the 5th Annual Global Big Data Conference, Silicon Valley, CA.
- Siewert, S. (2017). *Drone Net: Using Tegra for multi-spectral detection and tracking in shared air space*. Paper presented at the GPU Technology Conference, Silicon Valley, CA.
- Siewert, S., Vis, M., Claus, R., Krishnamurthy, R., Singh, S. B., Singh, A., & Gunasekaran, S. (2017). *Image and information fusion experiments with a software-defined multi-spectral imaging system for aviation and marine sensor networks*. Paper presented at the AIAA SciTech 2017, Grapevine, TX.



## **Mark Sinclair**

**College: Aviation**

**Department: Applied Aviation Sciences**

**Research Area: Meteorology**

Sinclair, M. (2017). *A climatological study of jet streak acceleration events and downstream impacts*. Paper presented at the 97th American Meteorological Society Annual Meeting, Seattle, WA.

Sinclair, M., & Powell, M. (2017). *Variability of the North American monsoon*. Paper presented at the NASA Space Grant Symposium, Phoenix, AZ.



## **Ahmed Iyanda Sulyman**

**College: Engineering**

**Department: Electrical, Computer & Software Engineering**

**Research Area: Wireless communications and networks, Millimeter-wave, 5G cellular technologies and the Internet of Things**

Alwarafy, A., Sulyman, A. I., Alsanie, A., Alshebeili, S. A., & Behairy, H. M. (2017). Path-loss channel models for receiver spatial diversity systems at 2.4 GHz. *International Journal of Antennas and Propagation*. <https://doi.org/10.1155/2017/6790504>

Seleem, H., Sulyman, A. I., & Alsanie, A. (2017). Hybrid precoding-beamforming design with Hadamard RF Codebook for mmWave large-scale MIMO systems. *IEEE Access*, 5, 6813–6823. <https://doi.org/10.1109/ACCESS.2017.2688345>

Sulyman, A. I., Oteafy, S. M. A., & Hassanein, H. S. (2017). Expanding the cellular-IoT Umbrella: An architectural approach. *IEEE Wireless Communications*, 24(3), 66–71. <https://doi.org/10.1109/MWC.2017.1600433>

Sulyman, A. I., Seleem, H., Alwarafy, A., Humadi, K. M., & Alsanie, A. (2017). Effects of solar radio emissions on outdoor propagation path loss models at 60 GHz bands for access/backhaul links and D2D communications. *IEEE Transactions on Antennas and Propagation*, 65(12), 6624–6635. <https://doi.org/10.1109/TAP.2017.2759959>



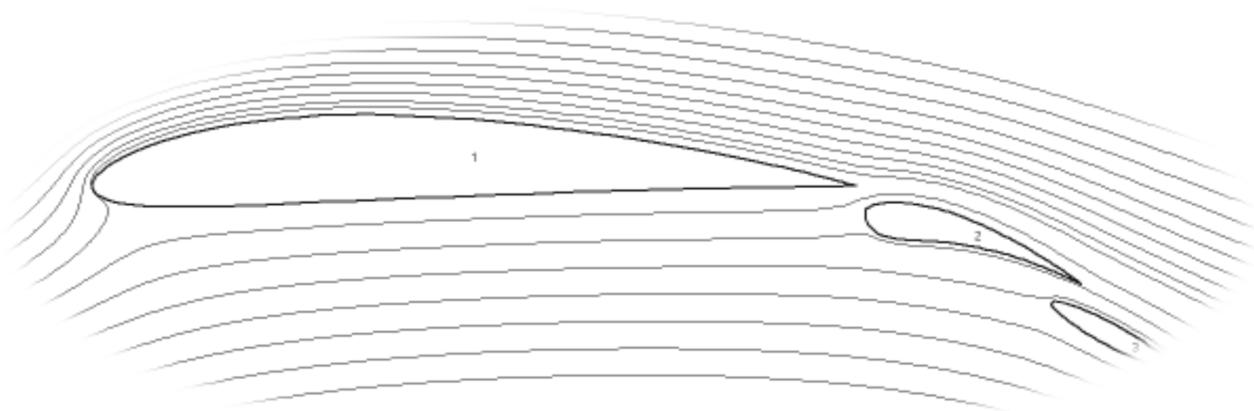
## Lance Traub

College: Engineering

Department: Aerospace Engineering

Research Area: Applied and theoretical aerodynamics and instrumentation

- Graham, M., Muradian, A., & Traub, L. W. (2017). Experimental study on the effect of gurney flap thickness on airfoil performance. *Journal of Aircraft*, *0*(0), 1–6. <https://doi.org/10.2514/1.C034547>
- Traub, L. W. (2017). Effect of gurney flaps on an elliptical airfoil. *Journal of Fluids Engineering*, *139*(10), 101102–101102–101109. <https://doi.org/10.1115/1.4037037>
- Traub, L. W. (2017). Examination of gurney flap pressure and shedding characteristics. *Journal of Aircraft*, *54*(5), 1990–1995. <https://doi.org/10.2514/1.C034279>
- Traub, L. W. (2017). Experimental investigation of the effect of trailing-edge flaps on delta wings. *Journal of Aircraft*, *54*(5), 1945–1959. <https://doi.org/10.2514/1.C034273>
- Traub, L. W. (2017d). Inverse propeller design for a prescribed chord or blade angle. *Journal of Aircraft*, *54*(2), 825–830. <https://doi.org/10.2514/1.C034023>
- Traub, L. W. (2017). Preliminary investigation of the effects of stagger on an annular wing. *Journal of Aircraft*, *54*(6), 2386–2392. <https://doi.org/10.2514/1.C034310>





## Jules Yimga

**College:** Arts & Sciences

**Department:** Business

**Research Area:** Industrial Organization (IO), Air transportation, Development economics, Applied econometrics

Yimga, J., & Gorjidoz, J. (2017). *Airline code-sharing and capacity utilization: to what extent do airlines help fill each other's planes?* Paper presented at the 21st Air Transport Research Society World Conference, Antwerp, Belgium.

Yimga, J. (2017). Airline code-sharing and its effects on on-time performance. *Journal of Air Transport Management*, 58, 76–90. <https://doi.org/10.1016/j.jairtraman.2016.10.001>

Yimga, J. (2017). *Airline on-time performance and consumer choice behavior: are passengers willing to pay for better on-time performance?* Paper presented at the 43rd Annual Meeting of the Eastern Economic Association, New York, NY.

Yimga, J. (2017). Airline on-time performance and its effects on consumer choice behavior. *Research in Transportation Economics*, 66, 12–25. <https://doi.org/10.1016/j.retrec.2017.06.001>

Yimga, J., & Gayle, P. (2017). *How much do consumers really value air travel on-time performance, and to what extent are airlines motivated to improve their on-time performance?* Paper presented at the 51st Annual Conference of the Canadian Economics Association, Nova Scotia, Canada.

Yimga, J., & Gayle, P. (2017). *How much do consumers really value air travel on-time performance, and to what extent are airlines motivated to improve their on-time performance?* Paper presented at the 87th Annual Meetings of the Southern Economic Association, Tampa, FL.

Yimga, J. (2017). Mitigating loan repayment troubles during microfinance expansion: evidence from a large panel. *Journal of Economic Development*, 42(2), 39–49.



## Johnny Young

College: Aviation

Department: Applied Aviation Sciences

Research Area: Integrating UAS into the National Airspace, Using UAS for accident investigation, Bridging the gap between manned and unmanned aviation

Perry, J. C., Nilsson, S., Young, J. L., Holt, T. B., Spencer, B., & Luedtke, J. (2017). *An economic and feasible solution to integrating unmanned aircraft into the national airspace system*. Paper presented at the Arizona UAS Summit & Expo, Mesa, AZ.

Perry, J. C., Young, J. L., Nilsson, S., Holt, T. B., Spencer, B., Cook, B., & Wilkerson, K. (2017). *Unmanned air traffic control in a manned air traffic world: An innovative solution to integrating unmanned air traffic into controlled airspace*. Paper presented at the 2017 Collegiate Aviation Conference & Expo, Riverside, CA.



## Michele Zanolin

College: Arts & Sciences

Department: Physics & Astronomy

Research Area: Gravitational physics or cosmology

Abbott, B. P., Abbott, R., Abbott, T. D., Abernathy, M. R., Acernese, F., Ackley, K., ... Weltevrede, P. (2017). First search for gravitational waves from known pulsars with Advanced LIGO. *The Astrophysical Journal*, 839, 12. <https://doi.org/10.3847/1538-4357/aa677f>

Abbott, B. P., Abbott, R., Abbott, T. D., Abernathy, M. R., Acernese, F., Ackley, K., ... Zweizig, J. (2017). *All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run* (No. P1600277).

Abbott, B. P., Abbott, R., Abbott, T. D., Abernathy, M. R., Acernese, F., Ackley, K., ... Zweizig, J. (2017). *Effects of data quality vetoes on a search for compact binary coalescences in advanced LIGO's first observing run* (No. arXiv:1710.02185 [gr-qc]). LVC Publications.



## Michele Zanolin — Continued

- Abbott, B. P., Abbott, R., Abbott, T. D., Abernathy, M. R., Acernese, F., Ackley, K., ... Zweizig, J. (2017). Observation of gravitational waves from a binary black hole merger. In *Centennial of General Relativity: A Celebration* (pp. 291–311). Hackensack, NJ: World Scientific.
- Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Anderson, D. P. (2017). First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. *Physical Review, D96*, 122004. <https://doi.org/10.1103/PhysRevD.96.122004>
- Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Evans, R. J. (2017). Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. *Physical Review, D95*, 122003. <https://doi.org/10.1103/PhysRevD.95.122003>
- Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Serra-Ricart, M. (2017). A gravitational-wave standard siren measurement of the Hubble constant. *Nature*, *551*, 85–88. <https://doi.org/10.1038/nature24471>
- Abbott, B. P., Abbott, R., Abbott, T. D., Acernese, F., Ackley, K., Adams, C., ... Ubertini, P. (2017). Gravitational waves and gamma-rays from a binary neutron star merger: GW170817 and GRB 170817A. *The Astrophysical Journal*, *848*, L13. <https://doi.org/10.3847/2041-8213/aa920c>
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### Hong Zhan

**College:** Arts & Sciences

**Department:** Humanities & Communication

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

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**\* NOTES \* NOTES \* NOTES \* NOTES \* NOTES \* NOTES \* NOTES \***





All authors recognized today will be receiving a gift as well as a cookie in shape of the Open Access logo, handmade by Sarah Thomas, Hazy Library Director.

Here is the story of that cookie...

In 2014, Musselman Library at Gettysburg College wanted to do something fun for their Open Access Week events to celebrate the idea of open access alternatives to traditional publishing. Their Scholarly Communications Committee conceived the idea of cookies in the shape of the open access logo.

They did not, however, know how to design the code for the cookie cutter for their 3D printer. Doing what librarians do, they reached out to their colleagues, in this case the bepress Digital Commons client community for assistance. Embry-Riddle's own Chip Wolfe (Digitization Specialist at Daytona Beach) took up the challenge of creating the cookie cutter in STL format at ERAU's Florida campus. Chip's success allowed Musselman Library to have their open access cookies in 2014 for Open Access Week, and for the Hazy Library to have its cookies (and eat them too!) for Scholarly Speaking in 2018.

We are very grateful to Chip Wolfe for sending his code for the cookie cutter, and to David Ehrensperger for ensuring the Hazy Library had access to it! Finally, thanks to Dr. Mehran Andalibi, Evan Kline, and Embry-Riddle's Rapid Prototyping Lab for creating the ERAU version of the Open Access cookie cutter that made these cookies possible.



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<http://cupola.gettysburg.edu/cgi/viewcontent.cgi?article=1006&context=oaweek>



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