Lisa Vangsness, Ph.D.

Assistant Professor, University of Alabama in Huntsville (updated: February 2024)

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Conta	ct In	torm	nation

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Huntsville, AL 35899

Education

2019	Ph.D., Psychology Kansas State University
2017	M.S., Psychology Kansas State University
2012	B.S., Psychology, with Honors The University of Iowa
2012	B.A., Linguistics The University of Iowa

Professional and Academic Appointments

2022-present	Assistant Professor
-	University of Alabama in Huntsville
2019-2022	Assistant Professor
	Wichita State University
2014-2019	Lab Manager, Young Cognitive Laboratory
	Kansas State University
2015-2019	Instructor
	Kansas State University
2012-2014	Senior Associate, Advancement Resources
	Cedar Rapids, IA
	Advancement Resources (AR) is the world leader in research-based professional education and breakthrough thinking in philanthropy. In addition to adapting the AR curriculum to existing theory and best practices, I conducted and applied market research techniques (e.g., focus group interviews, heuristic reviews, survey methodology) to identify insights that enhanced clients' understanding of their brand and target donor audience.
2000 2012	Passarch Assistant Danartment of Psychology

2009-2012 Research Assistant, Department of Psychology

University of Iowa (advisor: Dr. Bob McMurray)

Year of Award	Funding Source	Project Title	Role	% Grant (shared with co-PIs)	Amount
2024	UAH	New Faculty Research Award	PI	100%	\$10,000
2024	UAH	Charger Innovation Fund	PI	90%	\$25,000
2023	US Army	Performance Enhancement through Human Systems Integration (HIS)	co-PI (listed as lead researcher due to sponsor document restriction)		\$300,000
2023, 2024	US Army	Testing & Evaluation for Soldier-Device Teaming Compatibility, Vulnerability, and Durability in Emergent Situations: How to Assess the Efficacy of AI in Human Agent Teams	со-РІ		\$300,000 \$1,300,000
2023	USAF	An Interactive Digital Dual-Purpose Defense Technology Optimization Visualization Tool for Management & Maintenance Workflow Optimization and Resource Scheduling	lead researcher		\$750,000 (\$225,000 to UAH)
F2021	FAA	Human Error Taxonomy	co-PI	25%	\$200,000
2021	NSF	Future of Work	senior personnel	10%	\$300,000
2020	Regional Institute on Aging	Integration of Human Factors with the Automation of Robot-based Upper-limb Rehabilitations	PI	100%	\$25,000
2019	NASA/EPSCor	Situational Factors affecting the Use and Misuse of Automated Systems	PI	100%	\$14,945
			Total as PI		\$64,945
			(since joining UAH)		(\$25,000)
			Total as co-PI		\$2,350,000
			(since joining UAH)		(\$2,150,000)
			Grand Total		\$3,164,945
			(since joining UAH)		(\$2,925,000)

Patents

Conditional	The Linguistic Fingerprint TM
patent awarded	

Unfunded Awards

2024	PI, Navy STTR - Phase I: Real-Time Detection of Operator Workload as Input to Scalable
	Autonomy During Dynamic Mission Operations (under review)
2024	co-PI, NOAA - Adoption Attitudes and Data Interpretation of Underserved and Socially
	Vulnerable Populations
2023	PI, Tradewinds AI Proposal
2022	PI, DARPA Young Faculty Award
2021	PI, NIA R-15 AREA Grant
2020	Co-PI, NSF Improving Undergraduate STEM Education Grant
2020	Co-PI, NSF Future of Work Grant

Other Awards

2023	Faculty Advisor of the Year Nominee, University of Alabama in Huntsville SGA
2022	Phenomenal Woman Award Nominee, Wichita State University
2018	Council of Technical Groups Student Presenter Award, HFES (\$599)
2017	Outstanding Graduate Instructor Award, KSU Department of Psychological
	Sciences (\$500)
2016-2017	Mentor Student of the Year Award, KSU Department of Psychological Sciences
2014-2017	Donoghue Fellowship, Kansas State University (\$5,000 per year)
2015	Certificate of Leadership, Graduate Student Council, Kansas State University

Professional Development

2023	Mental Health First Aid USA workshop, National Council for Mental Wellbeing
2021	Gender.Training workshop, Stephanie Byers
2021	#WeSupportU, Wichita State University
2020	Learning to Teach Online, University of New South Wales (Coursera)
2018	Science Communication Fellow, Behind the Science Initiative
2018	Level II Recognition of Achievement in Professional Development, Teaching and Learning
	Center, Kansas State University
2017	ERP Bootcamp, University of Nebraska
2016-2017	Level I Recognition of Achievement in Professional Development, Teaching and Learning Center,
	Kansas State University

Professional Affiliations

2018-present	Human Factors and Ergonomics Society
2021-2022	Applied Behavior Analysis International
2019-2021	Association for Psychological Science
2015-2019	Psychonomic Society
2015-2019	Society for Judgment and Decision Making

Research

* denotes a graduate or undergraduate author

Journal	2024 Impact	First Author	Primary Faculty	Co-Author
	Factor		Advisor	
Psychological Science	10.2	1		

Journal of Management and Engineering Integration	6.4			1
Frontiers: Quantitative Psychology and Measurement	3.8	1		
Brain Research	3.6			1
Metacognition and Learning	3.3	1		
Human Factors	3.3	1		
Proceedings of the Human Factors and Ergonomics Society	3.3	3	4	1
Journal of Cognitive Engineering and Decision Making	2.4			2
Behavioural Processes	1.7			1
Educational Measurement: Issues and Practice	1.7			1
Journal of Police and Criminal Psychology	1.6			1
Behavioral and Social Issues	1.6			1
The Psychological Record	1.3			1
Journal of Dynamic Decision Making	n/a	1		
Journal of Accessibility and Design for All	n/a		1	

Publications: Journal articles (impact factor)

- 1. Driggs, J.* & Vangsness, L. (2024). Automated Systems Lend Partial Support to the Unique Agent Hypothesis. *Human Factors*. (3.17)
- 2. Granados, J.*, Canare, D.*, & Vangsness, L. (2024). Level-Up! Comparing accessibility features based on gameplay performance. *Journal of Accessibility and Design for All.*
- 3. Tenhundfeld, N., Forsyth, J., Sprague, N., El-Tawab, S., Cotter, J.*, & Vangsness, L. (2023). In the rough: Evaluation of convergence across trust assessment techniques using an autonomous golf cart. *Journal of Cognitive Engineering and Decision Making* (2.41)
- 4. Connelly, M.*, Vangsness, L., & Suss, J. (2023). Using Biological Motion to Investigate Perceptual-Cognitive Expertise in Law Enforcement Use-of-Force Decisions. *Journal of Police and Criminal Psychology*, 38(3), 567-583. (1.94)
- 5. Belisle, J., Matthews, M.*, & Vangsness, L. (2022). Influencing the climate point of no return: A preliminary analysis of delay discounting of reinforcement loss and framing of taxation. *Behavior and Social Issues*.
- 6. Delgado, P.*, Yihun, Y., Vangsness, L., & He, H. (2022). Integration of instance-based learning and computed torque control for an effective assist-as-needed support in human-exoskeleton interaction. *The Journal of Management and Engineering Integration* (7.18)
- 7. Scott, D.*, Vangsness, L., & Suss, J. (2022). Perceptual-cognitive expertise in law enforcement: An object-identification task. *Journal of Cognitive Engineering and Decision Making* (2.41)
- 8. Vangsness, L., Voss, N. Devereaux, V.*, Maddox, N.*, & Martin, E.* (2022). <u>Self-report measures of procrastination exhibit inconsistent concurrent validity, predictive validity, and psychometric properties</u>. Frontiers: Quantitative Psychology and Measurement.
- 9. Payne, M., Mali, I., McKinnel, Z.*, Vangsness, L., Shrestha, T. B., Bossman, S., & Plakke, B. (2021). Increased volumes of lobule VI in a valproic acid model of autism are associated with worse set-shifting

- performance in male Long-Evans rats. Brain Research, 1765, 147495. doi: 10.1016/j.brainres.2021.147495 (3.13)
- 10. Vangsness, L. & Young, M. E. (2021). More isn't always better: When metacognitive prompts are misleading. Metacognition & Learning, 16, 135-156. doi: 10.1007/s11409-020-09241-9. (3.62)
- 11. Voss, N.* & Vangsness, L. (2020). <u>Is procrastination related to low-quality data?</u> Educational Measurement: *Issues and Practice*, 39, 95-104. (1.35)
- 12. Belisle, J., Paliliunas, D., Vangsness, L., Dixon, M. R., & Stanley, C. R. (2020). <u>Social distance and delay exert multiple control over altruistic choices</u>. *The Psychological Record*, 70, 445-457. (1.03)
- 13. Vangsness, L. & Young, M. E. (2020). Turtle, task ninja, or time-waster? Who cares traditional task completion strategies are over-rated. *Psychological Science*. (4.90)
- 14. Vangsness, L. & Young, M. E. (2019). Central and peripheral cues to difficulty in a dynamic task. *Human Factors*, 61, 749-762. (3.17)
- 15. Young, M. E., Vangsness, L., & McCoy, A. M. (2018). The temporal dynamics of waiting when reward is increasing. *Behavioural Processes*, 149. (1.56)
- 16. Vangsness, L. & Young, M.E. (2017). The role of difficulty in dynamic risk mitigation decisions. *The Journal of Dynamic Decision Making*, 3, 4

Publications: technical reports, proceedings papers, and other manuscripts

- 1. Koehl, D. * & **Vangsness**, **L.** (2024). Toward a Linguistic Fingerprint[™] of Trust. *Proceedings of the Human Factors and Ergonomics Society*.
- 2. Sullivan, V.*, Atchley, J.*, Vangsness, L., & Tenhundfeld, N. (2024). Graphical Features & Perceptions of Reliability. *Proceedings of the Human Factors and Ergonomics Society.*
- 3. Koehl, D.* & Vangsness, L. (2023). Measuring latent trust patterns in language models in the context of Human-AI teaming. *Proceedings of the Human Factors and Ergonomics Society*.
- 4. Sutton, R. * & Vangsness, L. (2022). Decision-making at intersections. *IEEE International Conference on Human-Machine Systems*
- 5. Driggs, J.* & Vangsness, L. (2022). Changes in Trust in Automation (TiA) after performing a visual search task with an automated system. *IEEE International Conference on Human-Machine Systems*
- 6. **Vangsness, L.** & Driggs, J.* (2022). Cue use is unaffected by covertly performing a task. *Proceedings of the Human Factors and Ergonomics Society.*
- 7. Monroe, S.* & Vangsness, L. (2022). The effects of task difficulty and stress on trust in an automated navigation aid. *Proceedings of the Human Factors and Ergonomics Society.*

- 8. Mosqueda, G.*, Sutton, R.*, Miranda, V.*, Tri, A.*, Vangsness, L., & Yihun, Y. (2021). The integration of physical and mental factors in assist-as-needed devices. *Proceedings of the Design of Medical Devices Conference (Frontiers in Biomedical Devices*).
- 9. **Vangsness, L.** (2019). The role of peripheral cues in judgments of difficulty. Doctoral dissertation, Kansas State University.
- 10. Vangsness, L. & Young, M. E. (2019). Metacognition in human factors: The rewards and consequences of repeated assessment. Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 63, 1276-1277.
- 11. **Vangsness, L.** & Young, M. E. (2018). Central and peripheral cues to difficulty in a dynamic task. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 62, 1133-1134.

Publications: submitted or in preparation

- 1. Koehl, D. & Vangsness, L. (under review). Surfacing a Linguistic Fingerprint of Trust in Large Language Models.
- 2. **Vangsness, L., &** Young, M.E. (under review). Patterns of Cue Use While Watching Others Perform a Task Support the Simulation Theory of Metacognition.
- 3. Vangsness, L., Koehl, D.*, Chesser, A.*, & Selsvik, D.* (in prep). Student discounting choices do not support the TMT model of procrastination.
- 4. **Vangsness, L.**, Wilson, D.*, & Niven, J.* (in prep). Unfamiliarity drives estimates of the risks of automated technologies.

Publications: Popular Press/Outreach

Vangsness, L. (December, 2023). An unusual beer calls for unusual measures: An open-source dataset illustrates the strengths and weaknesses of various outlier exclusion methods, as well as their implications for out-of-sample prediction. *Dragon Stats Substack Blog.* https://lisavangsnessphd.substack.com/p/an-unusual-beer-calls-for-unusual?r=27la4u&utm_campaign=post&utm_medium=web

Granados, J.* & Vangsness, L. (January, 2020). Three major design barriers to Deaf/Hard-of-Hearing gamers. *Linkedin*.

Presentations: Invited presentations and colloquia

Vangsness, L. (2021, April). *Judgments of Difficulty and Task Engagement*. Invited keynote presented at the Oklahoma-Kansas Judgment and Decision-making Conference, online.

Vangsness, L. (2021, April) *Using Multi-level Modeling to Profile Behavior across Multiple Choice Domains.* In Belisle, J. (chair). A Nested Model to Stop Climate Change: The Needs of the Many and the Needs of the Few. Symposium presented at the 47th Annual Convention of the Association for Behavior Analysis International, San Francisco, CA.

Presentations: Conference talks and posters

1. Koehl, D.*, & **Vangsness, L.** (2024). Towards a linguistic fingerprint of trust. Talk presented at the DOD HFE TAG meeting, Huntsville, AL.

- 2. Mesmer, B., Menon, V., Tenhundfeld, N., Gholston, S., Weger, K., Vangsness, L., Chen, H., Kannan, H., & Wooley, A. (2023). Insights from multidisciplinary research on assessment of AI systems. Talk presented at the AI4SE & SE4AI Virtual Workshop.
- 3. Sutton, R. * & Vangsness, L. (2022). Decision-making at intersections. Poster presented at the IEEE International Conference on Human-Machine Systems, Orlando, FL.
- 4. Driggs, J.* & Vangsness, L. (2022). We have trust issues. Poster presented at the IEEE International Conference on Human-Machine Systems, Orlando, FL.
- 5. Vangsness, L. (2022). How we make judgments about human and automated teammates. Talk presented at the RAM Training Summit, Huntsville, AL.
- 6. Vangsness, L. & Driggs, J.* (2022). Cue use is unaffected by covertly performing a task. Talk presented at the Annual Meeting of the Human Factors and Ergonomics Society, Atlanta, GA.
- 7. Monroe, S.* & Vangsness, L. (2022). The effects of task difficulty and stress on trust in an automated navigation aid. Poster presented at the Annual Meeting of the Human Factors and Ergonomics Society, Atlanta, GA.
- 8. Delgado, P.*, Yihun, Y., Vangsness, L., & Hongsheng, H. (2022). Integration of instance-based learning and computed torque control for an effective assist-as-needed support in human-exoskeleton interaction. Talk presented at the International Conference on Industry, Engineering, & Management Systems, Clearwater Beach, FL.
- 9. Mosqueda, G.*, Sutton, R.*, Miranda, V.*, Tri, A.*, Vangsness, L., & Yihun, Y. (2021). The integration of physical and mental factors in assist-as-needed devices. Poster presented at the Design of Medical Devices Conference, Minneapolis, MN.
- 10. Vangsness, L. & Young, M. E. (2019, October). Metacognition in human factors: The rewards and consequences of repeated assessment. Poster presented at the Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA.
- 11. Vangsness, L. (2019, April). The dynamic nature of task completion: Evidence from longitudinal records of research participation. Talk presented at the Oklahoma/Kansas Judgment and Decision Making Conference, Norman, OK.
- 12. Voss, N. & Vangsness, L. (2019, April). Undergraduate research procrastination is not related to careless survey responding. Poster presented at the Annual Meeting of the Society for Industrial and Organizational Psychology, Washington, DC.
- 13. Vangsness, L. & Young, M. (2018, November). Procrastination among undergraduate students: A longitudinal study of research credit completion. Poster presented at the 59th Annual Meeting of the Psychonomic Society, New Orleans, LA.
- 14. Vangsness, L. & Young, M. (2018, October). Central and peripheral cues to difficulty in a dynamic task. Poster presented at the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, PA.

- 15. Vangsness, L. & Young, M. (2018, April). Central and peripheral cues to difficulty in a dynamic task. Talk presented at the Oklahoma/Kansas Judgment and Decision Making Conference, Manhattan, KS.
- 16. Vangsness, L. & Young, M. (2018, March). To prevent or alleviate negative outcomes? The role of difficulty in risk mitigation decisions. Poster presented at K-State Graduate Research, Arts, and Discovery Forum.
- 17. Vangsness, L. & Young, M. (2017, November). To prevent or alleviate negative outcomes? The role of difficulty in risk mitigation decisions. Poster presented at the 58th Annual Meeting of the Psychonomic Society, Vancouver, Canada.
- 18. Vangsness, L. (2017, April). *Perceptions of effort and risk assessment*. Talk presented at the Oklahoma/Kansas Judgment and Decision Making Conference, Norman, OK.
- 19. **Vangsness, L.**, & Young, M. (2016, November). A dynamic paradigm for the study of effort discounting. Poster presented at the 57th Annual Meeting of the Psychonomic Society, Boston, MA.
- 20. Vangsness, L. (2016, April). Getting into a groove: Engaging in a difficult task encourages perseverance. Talk presented at the Oklahoma/Kansas Judgment and Decision Making Conference, Oklahoma City, OK.
- 21. Young, M., McCoy, T., & Vangsness, L. (2016, April). *Trimodal latencies in waiting for better outcomes*. Talk presented at the Oklahoma/Kansas Judgment and Decision Making Conference, Oklahoma City, OK.

Teaching

Primary Instruction

University of Alabama in Huntsville			
	Course	Students	Overall Score (/5)
Fall 2024	PY 714 Multivariate Statistics	TBD	TBD
Fall 2024	PY 611 Statistics for Experimental Methods	TBD	TBD
Spring 2024	PY 711 Computational Psychology	3	4.14
Spring 2024	PY 102 Applications in Psychology	40	4.62
Fall 2023	PY 611 Statistics for Experimental Methods	6	4.61
Fall 2023	PY 300 Psychological Statistics	44	4.06
Fall 2023	PY 102 Applications in Psychology	39	4.54
Summer 2023	PY 101 General Psychology	24	4.83
Spring 2023	PY 713 Quantitative Statistical Methods	6	4.03
Spring 2023	PY 498 Human Research I	4	n/a
Spring 2023	PY 102 Applications in Psychology	41	4.78
Fall 2022	PY 710 Machine Learning	9	4.42
Fall 2022	PY 611 Statistics for Experimental Methods	8	4.54
Fall 2022	PY 498 Human Research I	9	4.83

Wichita State University

	Course	Students
Spring 2022	PSY 911 Teaching of Psychology	5
Spring 2022	PSY 311 Research Methods	19
Fall 2021	PSY 405 Human Factors Psychology	7
Fall 2021	PSY 311 Research Methods	14
Spring 2021	PSY 990 Seminar in Mathematical Modeling	11
Spring 2021	PSY 311 Research Methods	20
Fall 2020	PSY 311 Research Methods	20
Spring 2020	PSY 311 Research Methods (2 sections)	44
Fall 2019	PSY 311 Research Methods	22

Kansas State University

	Course	Students
Spring 2019	R-Bootcamp (topics: tidyR, ggplot2, lme4)	n/a
Fall 2017, 2018	PSYCH 425 Judgment and Decision Making	20, 22
Fall 2015, Spring	PSYCH 350 Experimental Methods in Psychology	20, 20, 11
2017, Fall 2017	(Lab Section)	
Spring 2017	PSYCH 110 General Psychology	23

Graduate Mentorship

2023 - present	Daniel Wilson	MA, Sp2024
2022 – present	Derek Kohl	MA, Sp2024
		PhD, anticipated Sp2026
2021 – present	Jade Driggs	PhD, Sp2024
2022 - 2023	Amber Chesser	MA, Fa2023
2020 - 2023	Rachel Sutton	MS, Fa2023

2019 – present	Kirsten Carter	PhD, Sp2021
2019 – present	Jasmine Granados	PhD, Su2021

Thesis and Dissertation Committees

2024	Amanda Cloud	MA comprehensive exam committee
2024	Keighly Harris	MA thesis committee
2023	Emily Sorrels	MA thesis committee
2023	Sheri Leder	MA thesis committee
2023	Carly Gray	MA thesis committee
2023	Emily O'Hear	MA thesis committee
2023	Elissa Failes	PhD committee
2022	Shivani Nagrecha	MS thesis committee
2021	Abbie Hutton	MS thesis committee
2021	Virgil Miranda	MS thesis committee
2021	Daniel Smith	PhD committee
2021	Bill Bui	MS thesis committee
2021	Dakota Scott	MS thesis committee
2021	Monica Connelly	MS thesis committee

Undergraduate Mentorship

Furthered the career of undergraduates through laboratory research, specifically instruction and collaboration in: literature review, research methods, statistics, presentation, and writing, and occasionally an independent research project (denoted by an *).

Robert Stanbery, Lucas Hicks, Daniel Selsvik, Fletcher Wilson, Jace Niven... and 29 others (9*).

Student Internships and Employment Placements

Internship opportunities obtained by students.

NASA (Jasmine Granados, Stephon Edwards), Google (Jasmine Granados), Facebook/Meta (Kirsten Carter), Catholic Charities (Victoria Deveraux), Amazon (Stephen Monroe), Naval Information Warfare Center of the Atlantic (Rachel Sutton), Tektonux (Daniel Wilson), Jacobs (Amber Chesser)

Service

Protession	
2023	Invited Career Panelist, Kansas State University Psychology Department
2022-present	mentor, HFEWoman
2021-present	reviewer, topiCS (Topics in Cognitive Science)
2020-present	mentor, HFES Mentor/Mentee Luncheons
2020-present	reviewer, Metacognition and Learning
2019-present	reviewer, Personnel Assessment and Decisions
2019-present	reviewer, PLOS One
2019-present	reviewer, Proceedings of the Human Factors and Ergonomics Society
2018-2020	committee member, HFES Fellows Profile Updates Task Force
2016-2018	reviewer, Journal of Psychological Inquiry

College

University of Alabama in Huntsville

2023	Psychology Host, Day of Discovery (October)
2023-2025	member, Graduate Council
2023	member, RELACs committee

Wichita State University

Panelist, Success in Undergraduate Research (Engineering Panel)

2020 Poster Judge, Graduate Research and Scholarly Projects Symposium (GRASP)

Kansas State University

2018	Group leader, Wildcat Dialogues: An Intercultural Leadership Experience
2016-2018	Invited Panelist, KSU Teaching & Learning Center "GTA Training Event"
2016-2017	Member, Search Committee for the Dean of the College of Arts & Sciences

Facilitator, Girls Researching Our World (GROW) "All Together for Innovation" workshop

2014-2015 Co-chair, Graduate Student Council Fundraising Committee

Department

University of Alabama in Huntsville

2024-present	Graduate Coordinator
2023	Committee member, Department Chair Search
2023	Coordinator, Adventures in Psychology Alumni Panel
2023	Committee member, Qualifying Exams Committee
2022-present	Advisor, UAH Huntsville Chapter of Psi Chi

2022 Women in Technology Panel Discussion

Wichita State University, Psychology

2020-2022	Committee member, Curriculum Committee
2020	Committee member, Search for Assistant Professor in Community Psychology
2020	Committee member, Research Roundup
2020	Committee member, Student Affairs Committee

Kansas State University, Psychology

2020	Invited Panelist, The Academic Job Market
2019	Invited Speaker, Graduate Association of Psychology Students
2019	Organizer & Facilitator, R-Bootcamp Workshop
2017	Invited Panelist, Psi Chi CV Workshop
2016-2017	President, Graduate Association of Psychology Students
2016	Invited Panelist, First Year Seminar Graduate School Panel
2015-2016	Vice President, Graduate Association of Psychology Students
2015-2017	Contributing member, Research Methods (PSYCH 350/351) instructional redesign team
2014	Invited Panelist, Psi Chi Graduate School Panel

Greater Community

Huntsville, AL

2023-2024	Lead Coord	linator, Kid's l	Night Events,	New Futures	Homeless Shelter	

Invited Guest, Q&A session, New Century Technology High School's Psychology Class

Wichita, KS

2021	Reader, WuReads storytime, Wichita Public Schools
2020	Creator, Storytime with a Scientist series, Wichita Public Libraries
2018	Tabletop Presenter, WSU Tech Expo
2018	Science Presenter, Wichita Air Show

Manhattan, KS

2018	Science on Tap Presenter, Tallgrass Tap House
2018	Science Café Presenter, Manhattan High School
2016, 2018	Science Fair Judge, Wamego Regional Science Fair