

**EDUCATION**      PhD in Computer Science and Cognitive Science  
Thesis: Adaptive Training Systems for Human-Robot Interaction  
Advisors: Bradley Hayes and Sriram Sankaranarayanan  
*University of Colorado Boulder*      2018 - Present

MS in Computer Science  
*University of Colorado Boulder*      2022

BS in Mathematics, summa cum laude  
BA in Cognitive Science, summa cum laude  
*Case Western Reserve University*      2018

**RESEARCH**      Research Assistant Appointment  
*University of Colorado Boulder*      Fall 2018 - Present

Journeyman Fellow  
*Army Research Lab, HRED*      Summer 2022 - Summer 2023

Undergraduate Researcher  
*REU at Florida Institute of Technology*      Summer 2017

**PUBLICATIONS**

**2024**

Callahan-Flintoft, C., **Jensen, E.**, et al. (2024). *A Comparison of Head Movement Classification Methods*. *Sensors* 24 (4). doi:10.3390/s24041260

**Jensen, E.**, Sankaranarayanan, S., and Hayes, B. (2024). *Large Language Models Enable Automated Formative Feedback in Human-Robot Interaction Tasks*. Workshop paper at Human-Large Language Model Interaction at the 2024 Human-Robot Interaction conference. [link to paper]

Wilson, J.R., and **Jensen, E.** (2024). *HRI Curriculum for a Liberal Arts Education*. Workshop paper at Designing an Intro to HRI Course at the 2024 Human-Robot Interaction conference. [link to paper]

Schirmer, S., Singh, J., **Jensen, E.**, et al. (in press). *Temporal Behavior Trees: Robustness and Segmentation*. Proceedings of the 2024 ACM International Conference on Hybrid Systems: Computation and Control.

Manns, B.H., Le, N., Villanueva, C.M., Ibonie, S.G., **Jensen, E.**, et al. (2024). *Mind Wandering and Bipolar Disorder Risk in Emerging Adults: An Experience Sampling Approach*. Poster abstract accepted to the 2024 Society for Affective Science (SAS) Annual Conference.

D’Mello, S.K., Moulder, R.G., and **Jensen, E.** (2024). *Momentary measures of emotions during technology-enhanced learning prospectively predict standardized test scores in two large samples*. Learning and Instruction 90. doi: 10.1016/j.learninstruc.2023.101872

## 2023

Villanueva, C.M., Ibonie, S.G., **Jensen, E.**, et al. (in press). *Experience Sampling Approach to Emotion Differentiation and Bipolar Mood Risk in Emerging Adults*. Journal of Emotion and Psychopathology.

**Jensen, E.**, Hayes, B., and Sankaranarayanan, S. (2023). *More Than a Number: A Multi-dimensional Framework For Automatically Assessing Human Teleoperation Skill*. Companion of the 2023 ACM/IEEE International Conference on Human-Robot Interaction. doi:10.1145/3568294.3580167.

## 2022

**Jensen, E.**, Luster, M., Pitts, B., and Sankaranarayanan, S. (2022). *Using Artificial Potential Fields To Model Driver Situational Awareness*. In 4th IFAC Workshop on Cyber-Physical and Human-Systems. doi:10.1016/j.ifacol.2023.01.118.

**Jensen, E.**, Luster, M., Yoon, H., Pitts, B., and Sankaranarayanan, S. (2022). *Mathematical Models of Human Drivers Using Artificial Risk Fields*. IEEE 25th International Conference on Intelligent Transportation Systems (ITSC). doi:10.1109/ITSC55140.2022.9922389.

Leite, W.L., Roy, S., Chakraborty, N., Michailidis, G., Huggins-Manley, A.C., D’Mello, S.K., Faradonbeh, M.K.S., **Jensen, E.**, et al. (2022). *A novel video recommendation system for algebra: An effectiveness evaluation study*. Proceedings of the 12th International Learning Analytics and Knowledge Conference (LAK22). doi:10.1145/3506860.3506906.

D’Mello, S.K., and **Jensen, E.** (2022). *Emotional Learning Analytics*. Handbook of Learning Analytics. doi:10.18608/hla22

## 2021

Villanueva, C.M., Ibonie, S.G., **Jensen, E.**, et al. (2021). *Emotion differentiation and bipolar disorder risk in young adults before and during the COVID-19 pandemic: An experience-sampling approach*. Poster abstract accepted to the 2021 Society for Research in Psychopathology (SRP) Annual Conference.

**Jensen, E.**, et al. (2021). *What You Do Predicts How You Do: Prospectively Modeling Student Quiz Performance Using Activity Features in an Online Learning Environment*. Proceedings of the Learning Analytics and Knowledge 2021 (LAK21) Conference. doi:10.1145/3448139.3448151. [runner-up for best paper award]

**Jensen, E.**, Pugh, S.L., and D’Mello, S.K. (2021). *A Deep Transfer Learning Ap-*

*proach to Automated Teacher Discourse Feedback*. Proceedings of the Learning Analytics and Knowledge 2021 (LAK21) Conference. doi:10.1145/3448139.3448168.

## 2020

**Jensen, E.**, et al. (2020). *Toward Automated Feedback on Teacher Discourse to Enhance Teacher Learning*. Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2020). doi:10.1145/3313831.3376418.

## 2019

**Jensen, E.**, Hutt, S., and DMello, S.K. (2019). *Generalizability of Sensor-Free Affect Detection Models in a Longitudinal Dataset of Tens of Thousands of Students*. Proceedings of the 12th International Conference on Educational Data Mining (EDM 2019). International Educational Data Mining Society. [link to paper]

## 2018

Bryan, K.J., Solomon, M., **Jensen, E.**, et al. (2018). *Classification of Rail Switch Data Using Machine Learning Techniques*. ASME/IEEE Joint Rail Conference, 2018 doi:10.1115/JRC2018-6175.

## PRESENTATIONS

### 2024

*Large Language Models Enable Automated Formative Feedback in Human-Robot Interaction Tasks*. (March 11, 2024). Workshop talk at Human-LLM Interaction, Boulder, Colorado.

### 2023

*Defining and Assessing Skill for Human-Robot Interaction*. (September 27, 2023). Student colloquium talk at University of Colorado Boulder.

*Healthy Advising Relationships*. (August 24, 2023). CU Boulder Graduate Orientation, virtual.

*Defining and Assessing Skill for Human-Robot Interaction*. (June 14, 2023). Seminar talk at Colorado School of Mines, Golden, Colorado.

*Specifying Drone Teleoperation Skill for Adaptive Curriculum Generation*. (May 9, 2023). Workshop talk at Humans in Cyber-Physical Systems: Safe Teleoperation through Shared Control Workshop, San Antonio, Texas.

## 2022

*Using Artificial Potential Fields To Model Driver Situational Awareness.* (December 2, 2022). Lightning talk and poster presentation at Cyber-Physical Human-Systems 2022 Workshop, Houston, Texas.

*Mathematical Models of Human Drivers Using Artificial Risk Fields.* (October 5, 2022). Conference talk at Intelligent Transportation Systems 2022 Conference, virtual.

*Healthy Advising Relationships.* (August 19, 2022). CU Boulder Graduate Orientation, virtual.

## 2021

*Navigating the Computer Science PhD.* (August 20, 2021). CU Boulder Graduate Orientation, virtual.

*Financial Basics.* (August 18, 2021). CU Boulder Graduate Orientation, virtual.

*What You Do Predicts How You Do: Prospectively Modeling Student Quiz Performance Using Activity Features in an Online Learning Environment.* (April 14, 2021). Conference talk at Learning Analytics and Knowledge 2021 Conference, virtual.

*A Deep Transfer Learning Approach to Automated Teacher Discourse Feedback.* (April 14, 2021). Conference talk at Learning Analytics and Knowledge 2021 Conference, virtual.

## 2020

*Toward Automated Feedback on Teacher Discourse to Enhance Teacher Learning.* (April 15, 2020). Poster at CU Boulder Institute of Cognitive Science, Boulder, CO.

## 2019

*Generalizability of Sensor-Free Affect Detection Models in a Longitudinal Dataset of Tens of Thousands of Students.* (July 5, 2019). Conference talk at Educational Data Mining 2019 Conference, Montréal, Canada.

*Generalizability of Sensor-Free Affect Detection Models.* (April 18, 2019). Poster presentation at CU Boulder Graduate Research Expo, Boulder, CO. **[won best presentation award]**

*Generalizability of Sensor-Free Affect Detection Models.* (April 12, 2019). Poster presentation at CRA-W Grad Cohort, Chicago, IL.

## TEACHING

## **Summer 2023**

Summer Intensive Research Internship in Cyber-Physical Systems at University of New Mexico (facilitator)

- Continuation of Summer 2022 workshop.

## **Spring 2023**

Introduction to Artificial Intelligence and Machine Learning (facilitator)

- Seminar series presenting broad AI and ML concepts for a non-technical audience.
- Developed curriculum and materials.
- Facilitated discussions to develop interdisciplinary research collaboration with CU Boulder and ARL.

## **Summer 2022**

Summer Intensive Research Internship in Cyber-Physical Systems at University of New Mexico (facilitator)

- Continuation of Summer 2021 workshop.

Introduction to Computational Thinking

- Co-developed and organized weekly pilot workshop for graduate students.
- Created syllabus and presented topics such as logical flow, creating functions, and project management.
- Presented examples in Python and R.

## **Summer 2021**

Summer Intensive Research Internship in Cyber-Physical Systems at University of New Mexico (facilitator)

- Developed 3-hour workshop on introductory data analysis using Python.
- Created lesson plan, follow-along materials, detailed solutions, and facilitated live (virtual) workshop.

## **Spring 2021**

CSCI 3202: Introduction to Artificial Intelligence. (Teaching Assistant)

- Taught subjects such as search, machine learning, and reinforcement learning.
- Responsibilities included developing quizzes and projects, holding office hours, and facilitating study sessions.

## Fall 2020

CSCI 5100/6100: Computer Science Colloquium. (Teaching Assistant)

- Taught strategies for interacting with technical talks from a variety of research areas.
- Responsibilities included providing feedback on student responses and questions to the colloquium talks.

CSCI 6000: Introduction to the Computer Science PhD Program. (Teaching Assistant)

- Taught basic research skills and strategies to be successful in the program.
- Responsibilities included providing feedback on reading responses and organizing panels of current and recently graduated students.

## SERVICE AND LEADERSHIP

### Computer Science Graduate Student Association

<i>Representative to graduate student government</i>	Fall 2018 - Spring 2019
<i>Student member of faculty search committee</i>	Spring 2019
<i>Student member of department Graduate Committee</i>	Fall 2019 - Spring 2020
<i>Developed and analyzed survey of grad student well-being</i>	Spring 2019, 2020
<i>Vice Chair</i>	Spring 2020 - Fall 2020
<i>Chair</i>	Spring 2021 - Fall 2021

### Graduate and Professional Student Government

<i>Computer Science department representative</i>	Fall 2018 - Spring 2019
---	-------------------------

- Served on travel awards committee
- Served on graduate housing advisory committee

<i>Graduate Senator to CU Student Government</i>	Fall 2018 - Spring 2019
<i>Director of Communications</i>	Fall 2019 - Spring 2021
<i>President of Engagement</i>	Fall 2021 - Spring 2022
<i>Chief of Staff</i>	Fall 2022 - Spring 2023

### ACM International Conference on Multimodal Interaction

<i>Conference Webchair</i>	2018
----------------------------	------

### Educational Data Mining Conference

<i>Program Committee Member</i>	2022 - 2024
---------------------------------	-------------

### Learning Analytics and Knowledge Conference

<i>Program Committee Member</i>	2022
---------------------------------	------

### Human-Robot Interaction Conference

<i>VAM-HRI Workshop Organizer</i>	2023
<i>Student Volunteer</i>	2024

### Cyber Physical Systems/Internet of Things Week



<i>University of Colorado Boulder</i>	2021
Outstanding Service Award <i>University of Colorado Boulder</i>	2020
Department Student Travel Award <i>University of Colorado Boulder</i>	2020
Best Research Poster <i>University of Colorado Boulder</i>	2019
Computer Science Departmental Fellowship <i>University of Colorado Boulder</i>	2018
Webster Godman Simon Mathematics Award <i>Case Western Reserve University</i>	2018
President's Commendation for outstanding service <i>Phi Sigma Rho National Sorority</i>	2017
Phi Beta Kappa Prize for outstanding sophomore in liberal arts and sciences <i>Case Western Reserve University</i>	2016