

**Emily Jensen**  
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<b>EDUCATION</b>	PhD in Computer Science and Cognitive Science Advisors: Bradley Hayes and Sriram Sankaranarayanan <i>University of Colorado Boulder</i>	2018 - Present
	MS in Computer Science <i>University of Colorado Boulder</i>	2022
	BS in Mathematics, summa cum laude BA in Cognitive Science, summa cum laude <i>Case Western Reserve University</i>	2018
<b>RESEARCH</b>	Journeyman Fellow <i>Army Research Lab, HRED</i>	Summer 2022 - Present
	Research Assistant Appointment <i>University of Colorado Boulder</i>	Fall 2018 - Present
	Undergraduate Researcher <i>REU at Florida Institute of Technology</i>	Summer 2017

## PUBLICATIONS

### In Review

Journal paper submission to Clinical Psychological Science.

Journal paper submission to Educational Researcher.

### 2022

**Jensen, E.**, Luster, M., Pitts, B., and Sankaranarayanan, S. (2022) *Using Artificial Potential Fields To Model Driver Situational Awareness*. To appear in 4th IFAC Workshop on Cyber-Physical and Human-Systems.

**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 Approach 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 D'Mello, 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

## 2022

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

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

## TEACHING

### 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
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- 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 - Present

	<b>ACM International Conference on Multimodal Interaction</b> <i>Conference Webchair</i>	2018
	<b>Educational Data Mining Conference</b> <i>Program Committee Member</i>	2022
	<b>Learning Analytics and Knowledge Conference</b> <i>Program Committee Member</i>	2022
	<b>Reviewer:</b> AIED (2020, 2021), CHI (2021), L@S (2021), EDM (2022), Computers & Education (2022), Higher Education Pedagogies (2022)	
<b>OUTREACH AND MENTORSHIP</b>	Masters Students • Tetsumichi Umada	2019-2020
	Undergraduate Students • Xuefei Sun	2019
	High School Students • Conner Malley	2019
	• Tanishqa Puhan	2021
	Graduate School Peer Mentor	2019, 2020
	Science Fair Judge at Colorado STEM Academy	2019, 2020
	Tech Help Facilitator at Boulder Public Library	2019 - Present
<b>AFFILIATIONS</b>	Association for Computing Machinery/SIGCHI	
	Phi Beta Kappa Academic Honor Society, <i>Ohio Alpha Chapter</i>	
	Pi Mu Epsilon National Honorary Mathematics Society, <i>Ohio Sigma Chapter</i>	
	Phi Sigma Rho engineering sorority, <i>Omicron Chapter</i> • National Ritual Director	2021 - Present
<b>HONORS AND AWARDS</b>	CPHS Fellow <i>Cyber-Physical Human-Systems Workshop</i>	2022
	Volunteer of the Year Award <i>Phi Sigma Rho National Sorority</i>	2022
	David T. Spalding Graduate Teaching Fund Fellowship Award <i>University of Colorado Boulder</i>	2022
	Graduate and Professional Student Government Travel Grant <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