

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

## PUBLICATIONS

### In Review

Journal paper submission to *Clinical Psychological Science*.

### 2022

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

**Jensen, E.**, Luster, M., Pitts, B., and Sankaranarayanan, S. (2022) *Mathematical Models of Human Drivers Using Artificial Risk Fields*. To appear in Intelligent Transportation Systems Conference. [arXiv].

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 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

### 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 |
|---|-------------------------|

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

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|--|-------------------------|
| <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     |

### ACM International Conference on Multimodal Interaction

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|----------------------------|------|
| <i>Conference Webchair</i> | 2018 |
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### Educational Data Mining Conference

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| <i>Program Committee Member</i> | 2022 |
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**Reviewer:** AIED (2020, 2021), CHI (2021), L@S (2021), EDM (2022),  
Computers & Education (2022)

**OUTREACH  
AND  
MENTORSHIP**

Masters Students  
• Tetsumichi Umada 2019-2020

Undergraduate Students  
• Xuefei Sun 2019

High School Students  
• Conner Malley 2019  
• Tanishqa Puhan 2021

Graduate Peer Mentor 2019, 2020  
Science Fair Judge at Colorado STEM Academy 2019, 2020  
Tech Help Facilitator at Boulder Public Library 2019 - Present

**AFFILIATIONS**

Association for Computing Machinery/SIGCHI

Phi Beta Kappa Academic Honor Society, *Ohio Alpha Chapter*

Pi Mu Epsilon National Honorary Mathematics Society, *Ohio Sigma Chapter*

Phi Sigma Rho engineering sorority, *Omicron Chapter*  
• National Ritual Director 2021 - Present

**HONORS AND  
AWARDS**

Volunteer of the Year Award  
*Phi Sigma Rho National Sorority* 2022

David T. Spalding Graduate Teaching Fund Fellowship Award  
*University of Colorado Boulder* 2022

Graduate and Professional Student Government Travel Grant  
*University of Colorado Boulder* 2021

Outstanding Service Award  
*University of Colorado Boulder* 2020

Department Student Travel Award  
*University of Colorado Boulder* 2020

Best Research Poster  
*University of Colorado Boulder* 2019

Computer Science Departmental Fellowship  
*University of Colorado Boulder* 2018

Webster Godman Simon Mathematics Award  
*Case Western Reserve University* 2018

President's Commendation for outstanding service  
*Phi Sigma Rho National Sorority* 2017

Phi Beta Kappa Prize for outstanding sophomore in liberal arts and sciences  
*Case Western Reserve University*

2016