Jessica Yauney

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Education

Stanford University (Doctorate of Philosophy) 2024-Current
PhD in Education, Emphasis in Learning Sciences and Technology Design
Masters in Computer Science

Brigham Young University (Masters of Science) 2020-2023
Technology with a Technology and Engineering Education Emphasis

University of California, Berkeley (Bachelors of Arts) 2012-2015
Applied Mathematics and Computer Science Major
Math & Science Education Minor
California Single Subject Mathematics Clear Credential

Work/Research Experience

Performance QA Engineer, Back End Developer, Family Search 2020-Current

- Maintain systems handling over 1,000,000 active users and billions of media files
- Design and develop a new more scalable systems using Cassandra, AWS, Splunk

ETS & College Board Consultant 2017-Current

- AP Computer Science Principles Content Development Team Leader
- AP Computer Science Principles Grading Table Leader
- AP Computer Science Principles Standard Setting Committee
- Praxis Technology Content Developer

Brigham Young University Research Assistant 2020-2023

- NSF Grant - Computational Thinking and Science - Developed an exam to measure student's growth in computational thinking skills
- NSF Grant - Learning by Evaluating using Adaptive Comparative Judgment
- Managed team of undergraduates to run Digital Storyboards curriculum in 5th grade

Computer Science Teacher, Lennox Math Science and Technology Academy 2015-2018

- Project Lead The Way Master Teacher - instructed high school teachers in PLTW
- AP Computer Science Principles & AP Computer Science A 9th-12th grade
- Trained high schoolers to understand computer science concepts and programming
- Concepts include: Scratch, Python, HTML, CSS, SQL, Java, Django, Android

Calteach Research Institute, University of California Berkeley 2014

- Research under Professor Richard Karp of the Simons Institute of Theoretical Computing
- Studied question selection mechanisms efficiency for computerized adaptive testing
- Developed python code to model and test statistical outcomes for intelligent question selection

Google 2012-2014

- Computer Science Summer Institute
- Google Ambassador to UC Berkeley

Awards

SIGCSE ACM SRC Winner 2023
ITEEA Maley Outstanding Graduate Student Citation Recipient 2023
Council Tech. & Eng. Teacher Education (CTETE) Outstanding Research Award 2023
Mississippi Valley Technology Teacher Education Conference Best Presentation 2022
NCWIT Educator Award, NCWIT Affiliate Winner and Aspire IT Recipient 2018
PLTW Computer Science California Teacher of The Year Award 2018
Noyce Fellow 2014

Skills

Java, SpringBoot, Android Studio, Python, Django, HTML, CSS, SQL, C, Arduino
Cryptography, QA Automated Tests, Instructional Design and User Research
Fluent in Spanish

Leadership and Service

Reviewing

- SIGCSE Papers & Posters
- AECT Papers
- CSTA Awards & Papers
- NCWIT Awards

Computer Science Teachers Association Conference Committee Member	2023-Current
Computer Science Teachers Association Chair of Awards Committee	2021-2023
CSTA Utah Co-President	2023-Current
SIGCSE Hybrid Experience Chair	2023
Society of Women Engineer Graduate and Mentoring Chair	2021-2023
Graduate Student Society Engineering Delegate	2020-2023
Y Serve Program Director for Project Youth	2022-2023
Humanitarian Service, Spanish Translation, Training Coordinator, Tech Specialist	2018-2019
Teach for America Equity Fellow	2014-2015
Jumpstart Americorps Member	2012-2014

Journal Articles

1. Computational Thinking Friends
2. Rich, P. J., Batholomew, S., Daniel, D., Dinsmoor, K., Nielsen, M., Reynolds, C., Swanson, M., Winward, E., & **Yauney, J.** (2022). Trends in Tools Used to Teach Computational Thinking through Elementary Coding. *Journal of Research on Technology in Education*
3. Bartholomew, S., & **Yauney, J.** (2022). An analysis of Children's STEM Books. *The Elementary STEM Journal*, *26*(4), 6–10. https://www.iteea.org/Publications/Journals/ESCJournal/ESJ26-4.aspx
4. Bartholomew, S. R., **Yauney, J.**, Wolfley, K., & Park, M. (2022). Digital Storyboarding as a way to integrate literacy, engineering, and technology. *Technology and Engineering Teacher*, 82(2), 19–27.
5. Love, Tyler, Bartholomew S. R. & **Yauney, J.** (2022). Examining Changes in Teachers' Beliefs Toward Integrating Computational Thinking to Teach Literacy and Math Concepts in Grades K-2. *Journal for STEM Education Research*, in press
6. Bartholomew, S. R., Santana, V., & **Yauney, J.** (2022). Exploring Elementary Student and Teacher Perceptions of STEM and CS Abilities. *Journal of STEM Teacher Education*, 57(1), Article 2. https://ir.library.illinoisstate.edu/jste/vol57/iss1/2
7. **Yauney, J.** & Bartholomew, S. (2021). Touchless Technologies. Technology and Engineering Teacher, 81(4), 29–35.
8. **Yauney, J.** (2021). Learning by Evaluating. *CSTA Voice*. Retrieved May 2, 2022, from https://www.csteachers.org/Stories/learning-by-evaluating-—-a-new-way-to-learn.

Master's Thesis

9. **Yauney, J.**, Bartholomew, S. R., & Rich, P. (2021). A systematic review of "Hour of Code" Research. *Computer Science Education*, 1–33. https://doi.org/10.1080/08993408.2021.2022362
10. **Yauney, J.** 2023. Exploring the Influence of Hour of Code on Students' CS Interest and Perceptions. In Proceedings of the 54th ACM Technical Symposium on Computer Science Education V. 2 (SIGCSE 2023). Association for Computing Machinery, New York, NY, USA, 1233. https://doi-org.erl.lib.byu.edu/10.1145/3545947.3573283

11. **Yauney, J.**, & Bartholomew, S. (2022). Hour of Code and Students' Perceptions of Computer Science. In *Pupil's Attitudes Toward Technology* (Vol. 39). Memorial University. https://www.pattontheedge.ca/proceedings

Conference Presentations and Proceedings

1. Jackson, A., & Mentzer, N., & Bartholomew, S. R., & Lee, W., & **Yauney, J. M**., & Thorne, S., & Bayah, D. (2023, June), *Board 332: Learning by Evaluating (LbE): Engaging Students in Evaluation as a Pedagogical Strategy to Improve Design Thinking* Paper presented at 2023 ASEE Annual Conference & Exposition, Baltimore , Maryland. https://peer.asee.org/42934
2. Bartholomew, S., **Yauney, J.**, Wuthrich, V., Wolfley, K., Elya, E., Rich, P., Shumway, S., & Wright, G., "Digital Storyboards: Making CS Elementary," *2023 Intermountain Engineering, Technology and Computing (IETC)*, Provo, UT, USA, 2023, pp. 232-237, doi: 10.1109/IETC57902.2023.10152087.
3. **Yauney, J.**, & Bartholomew, S. (2023). Digital Storyboarding: integrating literacy, engineering, and technology. In *UCET*. UCET 2023 Conference, Provo, UT, United States of America. https://drive.google.com/file/d/10NQzAE_5ZsC3nKJ50M2Ug8KshnO0tsPi/view
4. Bartholomew, S., & **Yauney, J.** (2022). Investigating Patterns & Implications in K-12 STEM Book Topics, Content, and Approach. *Pupil's Attitudes toward Technology*, *39*. https://www.pattontheedge.ca/proceedings
5. Bartholomew, S., & **Yauney, J.** (2022). The Impact of Differentiated Stimulus Materials in Learning by Evaluating. *Pupil's Attitudes toward Technology*, 39. https://www.pattontheedge.ca/proceedings
6. **Yauney, J.** (2022). K-12 CS Teacher Licensing in the US. In SIGCSE 2022: The 53rd ACM Technical Symposium on Computer Science Education. Providence, Rhode Island; Association for Computing Machinery. Retrieved April 28, 2022, from https://doi-org.erl.lib.byu.edu/10.1145/3478432.3499202.
7. Bartholomew, S., **Yauney, J.**, Mentzer, N., & Jackson, A. (2022, December). *"What do possums have to do with backpacks?" A preliminary investigation of student near/far transfer skills in design thinking*. 11th Biennial International Design and Technology Teacher's Association Research Conference (DATTArc), Queensland, Australia.
8. Bartholomew, S., **Yauney, J.**, Walsh, T., Shumway, S., & Wright, G. (2022, December). Exploring female students enrolled in an all-girls classroom concept of and interests toward technology and engineering. *11th Biennial International Design and Technology Teacher's Association Research Conference (DATTArc)*.
9. Bartholomew, S. & **Yauney, J.** Digital Storyboards. The Joint Conference of the 108th Mississippi Valley Technology Teacher Education Conference and the 59th Southeastern Technology Education Conference Clarion Hotel, Nashville Downtown Stadium, Nashville, TN November 17 – 18, 2022.
10. Rich, P. J., Batholomew, S., Daniel, D., Dinsmoor, K., Nielsen, M., Reynolds, C., Swanson, M., Winward, E., & **Yauney, J.** (2021). Trends in Tools to Teach Computational Thinking through Elementary Coding. In *2021 AECT International Convention*. Retrieved May 2, 2022, from https://www.researchgate.net/publication/355911089_Trends_in_Tools_Used_to_Teach_Computational_Thinking_through_Elementary_Coding.
11. Bartholomew, S., **Yauney, J.**, Mentzer, N. & Thorne, S. Investigating the Impacts of Differentiated Stimulus Materials in a Learning by Evaluating Activity. The Joint Conference of the 107th Mississippi Valley Technology Teacher Education Conference and the 58th Southeastern Technology Education Conference Clarion Hotel, Nashville Downtown Stadium, Nashville, TN November 18 – 19, 2021.

Project Contributions

PewPew- github.com/FamilySearch/pewpew - an open source program for load testing
FamilySearch Memories- www.familysearch.org/memories/ - online storage of media