

## Shima Salehi

Assistant Professor (Research) of Education  
Graduate School of Education

### Bio

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#### ACADEMIC APPOINTMENTS

- Assistant Professor (Research), Graduate School of Education

### Publications

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#### PUBLICATIONS

- **Demographic gaps or preparation gaps?: The large impact of incoming preparation on performance of students in introductory physics** *PHYSICAL REVIEW PHYSICS EDUCATION RESEARCH*  
Salehi, S., Burkholder, E., Lepage, G., Pollock, S., Wieman, C.  
2019; 15 (2)
- **Exploring bias in mechanical engineering students' perceptions of classmates.** *PloS one*  
Salehi, S., Holmes, N. G., Wieman, C.  
2019; 14 (3): e0212477
- **Tools for Science Inquiry Learning: Tool Affordances, Experimentation Strategies, and Conceptual Understanding** *JOURNAL OF SCIENCE EDUCATION AND TECHNOLOGY*  
Bumbacher, E., Salehi, S., Wieman, C., Blikstein, P.  
2018; 27 (3): 215–35
- **Enhancing Diversity in Undergraduate Science: Self-Efficacy Drives Performance Gains with Active Learning** *CBE-LIFE SCIENCES EDUCATION*  
Ballen, C. J., Wieman, C., Salehi, S., Searle, J. B., Zamudio, K. R.  
2017; 16 (4)
- **Exams disadvantage women in introductory biology** *PLOS ONE*  
Ballen, C. J., Salehi, S., Cotner, S.  
2017; 12 (10): e0186419
- **Enhancing Diversity in Undergraduate Science: Self-Efficacy Drives Performance Gains with Active Learning.** *CBE life sciences education*  
Ballen, C. J., Wieman, C., Salehi, S., Searle, J. B., Zamudio, K. R.  
2017; 16 (4)
- **Using the Bifocal Modeling Framework to Resolve "Discrepant Events" Between Physical Experiments and Virtual Models in Biology** *JOURNAL OF SCIENCE EDUCATION AND TECHNOLOGY*  
Blikstein, P., Fuhrmann, T., Salehi, S.  
2016; 25 (4): 513-526
- **Bifocal Modeling: Mixing Real and Virtual Labs for Advanced Science Learning** *11th International Conference on Interaction Design and Children (IDC)*  
Blikstein, P., Fuhrmann, T., Greene, D., Salehi, S.  
ASSOC COMPUTING MACHINERY.2012: 296–299