

# Carleton A. Moore | Curriculum Vitae

Information and Computer Sciences, University of Hawaii – Honolulu, HI 96822

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## Education

<b>University of Hawaii</b> <i>Ph.D., Computer Science</i>	<b>Honolulu, HI</b> 2000
<b>University of Hawaii</b> <i>M.S., Information and Computer Sciences</i>	<b>Honolulu, HI</b> 1995
<b>University of Colorado</b> <i>B.S., Electrical Engineering and Computer Science</i>	<b>Boulder, CO</b> 1988

## Academic Experience

<b>University of Hawaii</b> <i>Assistant Professor</i>	<b>Honolulu, HI</b> 2014–Present
<ul style="list-style-type: none"><li>○ ICS 111 Introduction to Computer Science I</li><li>○ ICS 211 Introduction to Computer Science II</li><li>○ ICS 215 Introduction to Scripting</li><li>○ ICS 314 Software Engineering I</li><li>○ ICS 414 Software Engineering II</li><li>○ ICS 415 Introduction to Programming for the Web</li></ul>	
<b>Collaborative Software Development Laboratory, University of Hawaii</b> <i>Senior Software Engineering Researcher</i>	<b>Honolulu, HI</b> 2012–December 2013
<b>Collaborative Software Development Laboratory, University of Hawaii</b> <i>Research Assistant</i>	<b>Honolulu, HI</b> 1993–2000
<b>Department of Information and Computer Sciences, University of Hawaii</b> <i>Teaching Assistant</i>	<b>Honolulu, HI</b> 1994–1995

## Industry Experience

<b>Lockheed Martin Corporation, IS&amp;GS</b> <i>Software Engineer</i>	<b>Honolulu, HI</b> 2010–2011
<b>Lockheed Martin Corporation, IS&amp;GS</b> <i>Software Engineering Manager</i>	<b>Honolulu, HI</b> 2006–2010
<b>Lockheed Martin Corporation, IS&amp;GS</b> <i>Software Engineer</i>	<b>Honolulu, HI</b> 2004–2006
<b>Orincon Corporation</b> <i>Software Engineer</i>	<b>Kailua, HI</b> 2000–2004

<b>Microsoft Research</b> <i>Intern</i>	<b>Redmond, WA</b> 2000
<b>hotU, Inc</b> <i>Software Engineer</i>	<b>Honolulu, HI</b> 2000
<b>DaimlerChrysler</b> <i>Intern</i>	<b>Ulm, Germany</b> 1999
<b>Tektronix</b> <i>Intern</i>	<b>Beaverton, OR</b> 1996, 1997
<b>Pacific International Center for High Technology Research</b> <i>Software Engineer</i>	<b>Honolulu, HI</b> 1995–1996
<b>United States Army</b> <i>Platoon Leader</i>	<b>Ft. Polk, LA</b> 1991–1992
<b>United States Army</b> <i>Assistant Staff Officer for Intelligence and Security</i>	<b>Ft. Polk, LA</b> 1989–1991

## **Publications**

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### **Journal articles**

**Is GPA enough? A platform for promoting computer science undergraduates' pursuit of career related extracurricular activities**, S. Paek, P. Leong, P. Johnson, and C. Moore, *International Journal of Technology in Education and Science*, Volume 5, Number 1, 2021 ([📄 pdf](#))

**Beyond course work: expanding what's valued in computer science degree programs**, S. Paek, P. Leong, P. Johnson, and C. Moore, *Journal of Applied Research in Higher Education*, Volume 12, 2020 ([📄 pdf](#))

**Three principals for the design of energy feedback visualizations**, R. Brewer, Y. Xu, G. Lee, M. Katchuck, C. Moore, P. Johnson, *International Journal on Advances in Intelligent Systems*, Volume 6, No. 3, December 2013 ([📄 pdf](#))

**Empirically guided software effort guesstimation**, P. Johnson, C. Moore, J. Dane, R. Brewer, *IEEE Software*, Volume 17, No. 6, December 2000 ([📄 pdf](#))

### **Book chapters**

**Design and evaluation of the Makahiki open source serious game framework for sustainability education**, Y. Xu, P. Johnson, G. Lee, C. Moore, and R. Brewer, *Sustainability, Green IT and Education Strategies in the 21st Century*, T. Issa, editor. Springer, 2016. An earlier version appears in Proceedings of the 2014 International Conference on Sustainability, Technology, and Education, Taipei, Taiwan.

### **Conference publications**

**RadGrad: Removing the 'Extra' from Extracurricular to Improve Student Engagement, Retention, and Diversity**, Philip M. Johnson, Carleton A. Moore, Peter Leong, and Seungoh Paek, *Proceedings of the 51st ACM Technical Symposium on Computer Science Education (SIGCSE 2020)*, Portland, OR, March, 2020 ([📄 pdf](#))

**Makahiki: An open source serious game framework for sustainability education and conservation**, Y. Xu, P. Johnson, G. Lee, C. Moore, R. Brewer, *Proceedings of the 2014 International Conference on Sustainability, Technology, and Education*, New Taipei City, Taiwan, December, 2014 ([📄 pdf](#))

**SGSEAM: Assessing serious game frameworks from a stakeholder experience perspective**, Y. Xu, P. Johnson, C. Moore, R. Brewer, J. Takayama, *Proceedings of the First International Conference on Gameful Design, Research, and Applications*, Stratford, Ontario, Canada, October 2013 ([📄 pdf](#))

**Energy feedback for smart grid consumers: Lessons learned from the Kukui Cup**, R. Brewer, Y. Xu, G. Lee, M. Katchuck, C. Moore, P. Johnson, *Proceedings of Energy 2013*, Lisbon, Portugal, March 2013 ([📄 pdf](#))

**Makahiki+WattDepot: An open source software stack for next generation energy research and education**, P. Johnson, Y. Xu, R. Brewer, C. Moore, G. Lee, A. Connell, *Proceedings of the 2012 Conference on Information and Communication Technologies for Sustainability*, Zurich, Switzerland, February 2013 ([📄 pdf](#))

**Beyond kWh: Myths and fixes for energy competition game design**, P. Johnson, Y. Xu, R. Brewer, G. Lee, M. Katchuck, C. Moore, *Proceedings of Meaningful Play 2012*, Lansing, Michigan, October 2012 ([📄 pdf](#))

**Beyond the Personal Software Process: Metrics collection and analysis for the differently disciplined**, P. Johnson, H. Kou, J. Agustin, C. Chan, C. Moore, J. Miglani, S. Zhen, and W. Doane, *Proceedings of the 2003 International Conference on Software Engineering*, Portland, OR., May 2003 ([📄 pdf](#))

#### Workshop publications.....

**Investigating Strong Collaboration with the Annotated Egret Navigator**, P. Johnson and C. Moore, *Proceedings of the Fourth IEEE Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises*, April 1995

## Grants

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### Using Degree Experience Plans to Improve Engagement, Retention, and Diversity of Undergraduates in Computer Science

National Science Foundation

2018-2022

P. Johnson, Principal Investigator; Peter Leong, Seungoh Paek, Carleton Moore, Co-PIs

\$331,208

## Honors and Awards

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### Certificate in Effective College Instruction

Association of College and University Educators

2022