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Educational History

- Ph.D. 1999, University of California, Los Angeles
Specialization: Psychological Studies in Education
- M.Div. 1993, Princeton Theological Seminary
- B.S. 1986, University of Michigan, Ann Arbor
Major: Biology

Employment Experience

- 1999 - Present Senior Researcher, National Center for Research on Evaluation, Standards,
& Student Testing, UCLA
- 2000 Lecturer, Principals' Leadership Institute, UCLA Graduate School of
Education
- 1994-1999 Graduate Student Researcher, National Center for Research on Evaluation,
Standards, & Student Testing

Honors

- 2009-2011 Contributor to work given the American Society for Training and
Development (ASTD) Excellence in Practice Citation (2009) and
Excellence in Practice Award (2010-2011) with the Naval Education and
Training Command's Surface Warfare Officers School (SWOS): Full
Spectrum Surface Warfare Training program
- 2001 Excellence in Service Award Finalist, UCLA
- 1993-1997 Project 88 Fellowship Award
- 1982 University of Michigan Regents Alumni Scholar

Associations

American Educational Research Association

Society for Simulation in Healthcare

Surface Navy Association

PUBLICATIONS (IN CHRONOLOGICAL ORDER)

Reports / Articles / Book Chapters

- Iseli, M.R., Lee, J.J., Schenke, K., Leon, S., Jones, B., Lim, H.E.D, Cai, L., Choi, D., & Jha, R., 2019. *Ultrasound training for the Military Health System: Design and validation of user performance models for fundamentals of ultrasound*. Final deliverable to Pélagique, Inc. and the U.S. Army Medical Research Acquisition Activity. Los Angeles: National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Baker, E.L, Lee, J.J., Choi, K.C., & O’Neil, H.F. (2018, November). *Functional requirements to execute the Training Assessment Framework*. Final deliverable to the Naval Education and Training Command (NETC). Los Angeles: National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Koenig, A.D., Lee, J.J., Iseli, M. (2018, April). *Needs analysis – FC & DC ratings*. Final deliverable to the Naval Education and Training Command (NETC). Los Angeles: National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Steadman, R. H., Huang, Y. M., Koenig, A., Lee, J., Iseli, M., & Khan, R. (2018). *Design of a screen-based simulation for training and automated assessment of teamwork skills*. Los Angeles University of California Los Angeles.
- Koenig, A.D. , Lee, J.J., Bratt, E.O. & Peters, S. (2017). Intelligent automated assessment and tutoring: A pairing of an intelligent tutoring system with an automated assessment engine for U.S. Navy shiphandling training. In R. Atkinson (ed.), *Intelligent Tutoring Systems: Structure, Applications and Challenges*, 63-104.
- Chung, G. K., Delacruz, G. C., Dionne, G. B., Baker, E. L., Lee, J. J., & Osmundson, E. (2016). *Towards individualized instruction with technology-enabled tools and methods: An exploratory study*. (CRESST Report 854). Los Angeles, CA: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Koenig, A.D., Lee, J. J., Iseli, M.R. (2016). *CRESST shiphandling automated assessment engine: Underway Replenishment (UNREP)* (CRESST Report 853). Los Angeles, CA: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Koenig, A.D., Lee, J. J., Iseli, M.R. (2016). *CRESST shiphandling automated assessment engine: Mooring at a pier* (CRESST Report 852). Los Angeles, CA: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Stripling, R., Lee, J.J., & Cohn, J.T. (2016). A framework for validating 21st century assessment tools. In O’Neil, H., Baker, E.L., & Perez, R. (Eds.). *Using games and simulations for teaching and learning: Key issues*. Routledge.
- Hussain, T.S., Menaker, E.S., Lee, J.J. and Feurzeig, W. (2014). Learning game disciplines: Their methods, strengths and challenges. In T.S. Hussain & S.L. Coleman (Eds). *Design and development of training games: Practical guidelines from a multi-disciplinary perspective* (pp. 6-30). New York: Cambridge University Press.

- Bewley, W. L., Lee, J. J., Jones, B., & Cai, H. (2014). Assessing cognitive readiness in a simulation-based training environment. In H. F. O'Neil, R. S. Perez, & E. L. Baker (Eds.), *Teaching and measuring cognitive readiness* (pp. 253-278). New York: Springer.
- Koenig, A., Iseli, M., Wainess, R., & Lee, J. J. (2013). Assessment Methodology for Computer-Based Instructional Simulations. *Military Medicine*, 47-54. doi:10.7205/MILMED-D-13-00217
- Hussain, T.S., Roberts, B., Menaker, E.S., Coleman, S.L., Pounds, K., Bowers, C., Cannon-Bowers, J.A., Murphy, C., Koenig, A., Wainess, R., & Lee, J. (2012). Designing and developing effective training games for the US Navy. *M&S Journal, Spring*, 27-43.
- Munro, A., Surmon, D., Koenig, A., Iseli, M., Lee, J., & Bewley, W. (2012). Detailed modeling of student knowledge in a simulation context. In V. Duffy (Ed.), *Proceedings of the 2012 applied human factors and ergonomics conference (Vol. 3, Advances in applied modeling and simulation)*. Boca Raton, FL: CRC Press, Taylor and Francis.
- Chung, G.K.W.K., Nagashima, S.O., Delacruz, G.C., Lee, J.J., Wainess, R., & Baker, E.L. (2011). *Review of rifle marksmanship training research. (CRESST Report 783)*. Los Angeles, CA: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Iseli, M. R., Koenig, A. D., Lee, J. J., & Wainess, R. (2010). *Automatic assessment of complex task performance in games and simulations. (CRESST Report 775)*. Los Angeles, CA: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Hussain, T., Feurzig, W., Cannon-Bowers, J., Coleman, S., Koenig, A., Lee, J., Menaker, E., Moffitt, K., Murphy, C., Pounds, K., Roberts, B., Seip, J., Souders, V., & Wainess, R. (2010). Development of game-based training systems: Lesson learned in an inter-disciplinary field in the making. In J. Cannon-Bowers & C. Bowers (Eds.), *Serious game design and development: Technologies for training and learning* (pp.47-80). Hershey, PA: Information Science Reference, IGI Global.
- Koenig, A.D., Lee, J., Iseli, M., & Wainess, R. (2009). *A conceptual framework for assessing performance in games and simulations*. Paper presented at the Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC).
- Hussain, T.S., Roberts, B., Menaker, E.S., Coleman, S.L., Bowers, C., Cannon-Bowers, J.A., Koenig, A., Wainess, R., Lee, J. Pounds, K., & Murphy, C. (2009). *Designing and developing games for the US Navy*. Paper presented at the Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC).

- Lee, J.J., Bewley, W.L., Jones, B., Min, H. & Kang, T. (2009). *Assessing Performance in a Simulated Combat Information Center*. Paper presented at the Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC).
- Lee, J.J., Jones, B., & Min, H. (2009). *Assessing Performance in the Multi-Mission Team Trainer*. Paper presented at the Annual meeting of the American Educational Research Association, San Diego.
- Lee, J.J., Delacruz, G.C., Elmore, J., & Bewley, W.L. (2008, March). *Video-based assessment of coach's ability to fault check performance*. Paper presented at the Annual meeting of the American Educational Research Association, New York.
- Bewley, W.L., Lee, J.J., Munro, A., & Chung, G.K.W.K. (2007). The use of formative assessments to guide instruction in a military training system. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Chung, G.K.W.K., Delacruz, G.C., Dionne, G.B., Baker, E.L., Lee, J.J., & Osmundson, E. (2007, April). Towards individualized instruction with technology-enabled tools and methods. In R. Perez (Chair), *Rebooting the past: Leveraging advances in assessment, instruction and technology to individualize instruction and learning*. Symposium presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Lee, J. J., Chung, G.K.W.K., Bewley, W.L., Cheak, A.M., & Ellis, K. (2006). *An investigation of the reliability of knowledge measures through relational mapping in joint military environments* (Final deliverable to the U.S. Department of Defense, Office of Naval Research). Los Angeles: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Lee, J. J., Bewley, W. L., O'Neil, H. F., & Cheak, A. M. (2006, January). *Evaluation of the student success strategies in Navy classrooms* (Final Deliverable to the U.S. Department of Defense, Naval Education and Training Command). Los Angeles: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Cheak, A. M., Lee, J. J., O'Neil, H. F., & Bewley, W. L. (2006, January). *Developing measures to assess the impact of the Navy Integrated Learning Environment (ILE)* (Deliverable to the U.S. Department of Defense, Naval Education and Training Command). Los Angeles: University of California, National Center for Research on Evaluation, Standards, and Student Testing (CRESST).
- Chen, E., Heritage, H.M., Lee, J.J. (2005). Identifying and monitoring students' learning needs with technology. *The Journal of Education for Students Placed At Risk*, 10(3), 309-332.
- Bewley, W.L., Chung, G.K.W.K., Kim, J., Lee, J.J., & Saadat, F. (2004). A distance learning testbed. *Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC)*. Paper No. 1658.
- Bewley, W.L., Chung, G.K.W.K., Kim, J., Lee, J.J., & Saadat, F. (2004). A distance learning testbed. *Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC)*. Paper No. 1658.
- Chen, E., Heritage, H.M., Danish, J., Choi, S., & Lee, J. (2003). Evaluating the web-based Quality School Portfolio year two research report. (Deliverable to the US Department of Education).
- Baker, E.L., Heritage, H.M. & Lee, J.J. (2002). *Upgrading America's use of information to improve student performance: the Quality School Portfolio*. Progress Report: October 1, 2001 to April 30, 2002 (Deliverable to the US Department of Education). Los Angeles: University of California, Center for Research on Evaluation, Standards, and Student Testing.

- Eller, B., & Lee, J. (2001, November/December). Software for hard data. *Leadership*, 31(2), 30-31.
- Lee, J., Herman, J., & Mitchell, D. (2001). Final report to the Stuart Foundation: Quality School Portfolio training initiative. CSE report.
- Herl, H. E., O'Neil, H.F., Jr., Dennis, R.A., Chung, G.K.W.K., Klein, D.C.D., Lee, J., Schacter, J., & Baker, E. L. (1996). *Technical report of year 1 CAETI findings*. (CAETI Deliverable to ISX). Los Angeles: University of California, Center for Research on Evaluation, Standards, and Student Testing.

Presentations / Demonstrations / Trainings

- Juo, Y.-Y., Poorsattar, S.P., Ricke, C., Huang, Y.M., Iseli, M., Lee, J.J., Webb, N., Tillou, A., Steadman, R. (2019, April). *Teamwork leadership training for medical professionals with first-person simulation video gameplay*. e-Poster presented at the Emerging Technology session at the SAGES 2019 Annual Meeting, Baltimore, MD.
- Poorsattar, S.P., Rice, C.M., Huang, Y.M., Webb, N., Iseli, M., Lee, J.J., Tillou, A., Juo, Y.-Y., & Steadman (2019, March 5). *Developing a serious game for teamwork skills training and assessment*. Poster presented at the Scientific Evening, David Geffen School of Medicine, University of California, Los Angeles.
- Lee, J.J. (2018, October). *Screen-based simulation for training and automated assessment of teamwork skills*. 2018 CRESST Conference. Los Angeles: University of California Los Angeles. Demonstration at the Innovation Showcase, CRESST Conference 2018. Los Angeles: University of California at Los Angeles.
- Lee, J.J. (2018, October). *Discussion of: Understanding simulation and gameplay data*. CRESST Conference 2018. Los Angeles: University of California Los Angeles.
- Iseli, M., Koenig, A.D., Lee, J.J., Lewin, R., & Steadman, R. (2018, April). *AGILE methodology for developing a game-based assessment of teamwork skills*. Paper/poster presented at the Annual Meeting of the American Educational Research Association, New York.
- Koenig, A.D., Lee, J.J., Cai, L., Pottie, Chung, G.K.W.K., & Baker, E.L. (2018). *Research for Innovative Technology: The Navy Life Game stakeholder analysis, simulated student, and game architecture*. Interim Progress Report. Los Angeles: University of California, Center for Research on Evaluation Standards, and Student Testing.
- Lee, J.J., Koenig, A.D., Iseli, M., Espinosa, P., and Zhang, M. (2017, September). *Final reports and software deliverables to COLE for SWOS work*. Los Angeles: University of California, Center for Research on Evaluation Standards, and Student Testing.
- Espinosa, P., Lee, J.J., & Koenig, A.D. (2017). *DDG Engineering Trainer Assessment Tool for the US Navy Surface Warfare Officers School (SWOS)*. [Computer Software]. Los Angeles: University of California, Center for Research on Evaluation Standards, and Student Testing
- Koenig, A.D., Iseli, M., Lee, J.J., Zhang, M. (2012-2017). *CRESST Shiphandling automated assessment engine and visualization tools for the US Navy Surface Warfare Officers School (SWOS)* [Computer Software]. Los Angeles: University of California, Center for Research on Evaluation Standards, and Student Testing.
- Lee, J.J., & Chung, G.K.W.K. (2016, November). *CRESST Navy game and simulation work*. Presentation to Riot Games (Victor Intermaggio). Los Angeles: University of California, Center for Research on Evaluation, Standards, and Student Testing.

- Madni, A., Redman, E., & Lee, J.J. (2016, October). *CRESST technology research: Methodology, development, assessment, and efficacy*. Presentation at the Riot Games Research Summit, Los Angeles, CA.
- Lee, J.J., Koenig, A.D., & Iseli, M.R. (2016, September). *CRESST shiphandling automated assessment engine for COVE-ITS*. Demonstration at the Innovation Showcase, CRESST Conference 2016. Los Angeles: University of California at Los Angeles.
- Mayer, R., Lee, J.J., von Davier, A., & Settles, B. (2016, September). *Application of educational technology: From math to military advances in learning and assessment technology*.
- Lee, J.J. (2015, July). *CRESST shiphandling automated assessment engine for COVE-ITS: Underway replenishment (UNREP)*. Presentation to the Surface Warfare Officers School (SWOS). Newport, RI.
- Lee, J.J. (2014, July). *CRESST shiphandling automated assessment engine for COVE-ITS*. Presentation to Dr. Ray Perez, ONR Cognitive Science of Learning Program Review. Arlington, VA.
- Wainess, R., Lee, J.J., & Bewley, W.L. (2012, June). *The Education Framework Initiative: Objectives, tools and status*. Presentation at the meeting of the Federal Medical Simulation Training Consortium (FMSTC), Portsmouth, VA.
- Bewley, W.L., Wainess, R., & Lee, J.J. (2012, February). *The Education Framework Initiative: Status, tools and objectives*. Presentation to Dr. Jonathan Woodson, Assistant Secretary of Defense for Health Affairs at the meeting of the Military Medicine Simulation Training Consortium (MMSTC), Fairfield, CA.
- Bewley, W.L., Wainess, R., & Lee, J.J. (2011, November). *The Education Framework Initiative: Status, tools and objectives*. Presentation at the meeting of the Military Medicine Simulation Training Consortium (MMSTC), Bethesda, MD.
- Fox, F.S., Lee, J.J., Rivera, N., & Montano Dean, C. (2011, October). *COSA at SWOS: Providing a simple method of assessing students to ensure consistent scoring and appropriate curriculum in a ships bridge simulator*. Presentation at the Human Systems Integration Symposium (HSIS).
- Bewley, W.L. & Lee, J.J. (2010, March). *Shiphandling assessment*. Presentation to Booz Allen Hamilton (R. Callas), Newport, RI. Los Angeles: Center for Research on Evaluation, Standards, & Student Testing.
- Lee, J.J. (2011, March). *SWOS fleet questionnaire: DH Classes 206-208*. Presentation to the Surface Warfare Officers School. Newport, RI. Los Angeles: Center for Research on Evaluation, Standards, & Student Testing.
- Lee, J.J. (2010, April). *SWOS fleet questionnaire: DH Classes 198-202*. Presentation to the Surface Warfare Officers School. Newport, RI. Los Angeles: Center for Research on Evaluation, Standards, & Student Testing.
- Lee, J.J. (2010, May). *NSS: Shiphandling assessment: Using the CRESST assessment tool, prototype phase*. Presentation to the Surface Warfare Officers School, Newport, RI. Los Angeles: Center for Research on Evaluation, Standards, & Student Testing.
- Lee, J.J. (2010, November). *SWOS fleet questionnaire: DH Classes 203-205*. Presentation to the Surface Warfare Officers School. Newport, RI. Los Angeles: Center for Research on Evaluation, Standards, & Student Testing.
- Callas, R., Lee, J.J., Fox, F.S., Rivera, N., & Montano-Dean, C. (2010, November). *Shiphandling assessment update brief*. Presentation to the Surface Warfare Officers School, Newport, RI. Los Angeles: Center for Research on Evaluation, Standards, & Student Testing.

- Lee, J.J. (2011, March). *SWOS fleet questionnaire: DH Classes 206-208*. Presentation to the Surface Warfare Officers School. Newport, RI. Los Angeles: Center for Research on Evaluation, Standards, & Student Testing.
- Lee, J.J., Jones, B., & Min, H. (2009, April). *Assessing Performance in the Multimission Team Trainer*. In R. Perez (Chair), *Assessing performance in complex tasks*. Paper presented at the Annual meeting of the American Educational Research Association meeting, San Diego.
- Lee, J.J. (2007, July). *Integrated Learning Environment Assessment System (ILEAS): Project briefing*. Presentation to Center for Surface Combat Systems Unit, Great Lakes Naval Station, Great Lakes, IL.
- Bewley, W.L., Lee, J.J., Delacruz, G.C., & Elmore, J. (2007, July). *Combat marksmanship program: Coaches evaluation*. Presentation to the U.S. Marine Corps, Quantico, VA.
- Bewley, W.L., Lee, J.J. & Elmore, J. (2007, June). *Combat marksmanship program: Coaches evaluation*. Presentation to the U.S. Marine Corps, Camp Pendleton, CA.
- Bewley, W.L., Lee, J., Munro, A., & Chung, G.K.W.K. (2007, April). *The use of formative assessments to guide instruction in a military training system*. Paper presented at the Annual meeting of the American Educational Research Association, Chicago.
- Chung, G.K.W.K. , Delacruz, G.C., Dionne, G.B., Baker, E.L., Lee, J. & Osmundson, E. (2007, April). *Towards individualized instruction with technology-enabled tools and methods*. Paper presented at the Annual meeting of the American Educational Research Association, Chicago.
- Lee, J.J. (2007, January). *Feasibility and generation of instructional parcels*. Presentation at the Annual CRESST Conference. Los Angeles: University of California, National Center for Research on Evaluation, Standards, and Student Testing.
- Lee, J.J. (2006, September). *The application of QSP on learning and instruction in the classroom*. Presentation to the Korean Institute for Curriculum and Evaluation, Seoul, Korea.
- Herman, J., Vendlinski, T., Lee, J.J., & Nagashima, S. (2005, July). Center for Assessment and Evaluation of Student Learning (CAESL) Assessment Development Training. San Marcos, CA.
- Lee, J.J. (2005, June). *Quality School Portfolio Web Training*. Los Angeles: University of California, National Center for Research on Evaluation, Standards, and Student Testing.
- Lee, J.J., Vendlinski, T. , & Niemi, D. (2005, April). Computer-Guided Assessment Design. In F. Sloane (Chair), *Moving Technology Up- Design Requirements for Valid, Effective Classroom and Large Scale Assessment*. Symposium conducted at the Annual Meeting of the American Educational Research Association. Montreal, Canada.
- Lee, J.J., Wang, J. & de Vries, L. (2005, April). The Assessment Design and Delivery System. In J.H. Earle (Chair), *Computer-Guided Assessment Design and Delivery: Two Demonstrations*. Demonstration session conducted at the Annual Meeting of the American Educational Research Association. Montreal, Canada.
- Lee, J.J. (2005, January). *Data analysis: Best practices*. Presentation at the Annual NCLB Conference. Alaska State Department of Education. Anchorage, AK.
- Lee, J.J. (2004, September). *Technology tools and what they tell us*. Presentation at the Annual CRESST conference. Los Angeles: University of California, National Center for Research on Evaluation, Standards, and Student Testing.
- Lee, J.J. (2004, June). *The Quality School Portfolio: A web-based decision support tool*. Presentation at the Colorado Consortium on Data-Driven Decision (C2D3). Denver, CO.
- Heritage, H. M., & Lee, J. J. (2004, March). *The Quality School Portfolio: A new web-based system to support data informed decisions*. Secretary's No Child Left Behind Leadership Summit. St. Louis, MO.

- Heritage, H.M., & Lee, J.J. (2004, February). *The Quality School Portfolio: A web-based decision support tool*. Presentation to the California Department of Education [G. Flores]. Los Angeles: University of California, National Center for Research on Evaluation, Standards, and Student Testing.
- Lee, J.J. (2003, October). *The Quality School Portfolio: A new web-based system to support data informed decisions*. Presentation at the Microsoft Education Solutions Expo. Irvine, CA: Microsoft.
- Heritage, M. & Lee, J.J. (2003, September). *The Quality School Portfolio: A new web-based system to support data informed decisions*. Presentation to the Ministry of Education. Mexico City, Mexico.

Computer Software

- Lee, J.J., & Zhang, M. (2017). Multi-Mission Team Trainer (MMTT) Assessment Tool - Scenario Authoring for the US Navy Surface Warfare Officers School (SWOS) [Computer Software]. Los Angeles: University of California, Center for Research on Evaluation Standards, and Student Testing.
- Lee, J.J., & Abedi, A. (2015-2016). Individual Student Assessment Accessibility Profile (ISAAP) web-based versions 1.0 and 2.0 for Smarter Balanced. [Computer Software]. Los Angeles: University of California, Center for Research on Evaluation Standards, and Student Testing
- Koenig, A.D., Iseli, M., Lee, J.J., Zhang, M. (2012-2017). CRESST Shiphandling automated assessment engine and visualization tools for the US Navy Surface Warfare Officers School (SWOS) [Computer Software]. Los Angeles: University of California, Center for Research on Evaluation Standards, and Student Testing.
- Bewley, W.L., Lee, J.J., Zhang, M., & Jones, B. (2006-2016). CRESST Tactical Action Officer Multi-Mission Team Trainer (MMTT) Assessment Tool for the US Navy Surface Warfare Officers School (SWOS) [Computer Software]. Los Angeles: University of California, Center for Research on Evaluation Standards, and Student Testing.
- Bewley, W.L., Lee, J.J., Zhang, M. (2009-2012). CRESST IPAT Data Entry Tool for the US Navy Aegis Readiness Training Center (ATRC). [Computer Software]. Los Angeles: University of California, Center for Research on Evaluation Standards, and Student Testing.
- Bewley, W.L., Lee, J.J., Fox, F.S., Zhang, M., Rivera, N., & Montano-Dean, C. (2009-2012). CRESST Conning Officers Shiphandling Assessment (COSA). [Computer Software]. Los Angeles: University of California, Center for Research on Evaluation Standards, and Student Testing.
- Baker, E. L., Herman, J.L., Lee, J.J., Kim, K.S., Heritage, M. & Casey, L.C.. (Developers), (2003). Quality School Portfolio Web Version 4.4 [Computer Software]. Los Angeles: University of California, National Center for Research on Evaluation, Standards, and Student Testing.
- Baker, E. L., Herman, J. L. Mitchell, D, & Lee, J.J.. (Developers). (1997-2003). Quality School Portfolio, Version 2.0 [Computer Software]. Los Angeles: University of California, Center for Research on Evaluation, Standards, and Student Testing.