

Lisa Sundahl Platt, Ph.D., M.S., CSSBB, EDAC, LEED AP BD+C
Assistant Professor of Interior Design | FIBER Research Faculty

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Education:

Ph.D. in Systems Science

December 2019

Focus: Health Systems Engineering

State University of New York at Binghamton

- Dissertation Title: *"Using Resilient Systems Inference for Estimating Hospital Acquired Infection Prevention Infrastructure Performance"*

M.S. in Psychology

December 2014

Focus: Industrial and Organizational Psychology

Kansas State University

- Thesis and Practicum Title: *"Integrating a Human Factors-Based Performance Management System within Hospital Clinical Teams"*

B.A. in Interior Design

August 1992

Minor: Architectural History

Savannah College of Art & Design

Research Patents:

1. Platt, L.S. First Inventor: Patent: Resilient Inference System for Performance Safety (RISPS)
Utility Patent No PCT/US2021/17507, USPTO, August 2022
2. Platt, L.S. First Inventor: Provisional Patent: Prevention Through Design Environmental
Material Intelligence Center (PtD-EMIC) No. T18480US001 [222107-8785], June 2021

Awards and Recognition:

- UF College of Design Construction and Planning Service Award 2021
- SUNY Binghamton, Thomas J. Watson School of Engineering and Applied Science Excellence in Systems Science Research Award 2020

Select Research Publications:

- L. S. Platt, Xiaoyu Chen, Tara Sabo-Attwood, Nicole Iovine, Scott Brown & Brad Pollitt (2023) Improving infection prevention briefing through predictive predesign: a computational approach to architectural programming by evaluating socioecological risk factors, Architectural Engineering and Design Management, DOI: [10.1080/17452007.2023.2214347](https://doi.org/10.1080/17452007.2023.2214347)
- Platt L.S., Chen X. (2022) A Computational Approach to Estimating Healthcare Contact Surface Material Resilience. HERD. Nov 20:19375867221137098. doi: 10.1177/19375867221137098. Epub ahead of print. PMID: 36408919.
- Platt, L.S., Cai, H., Zeinali, A., Green, K., Harvey, J., & McIntosh, T. (2022). Improving Hand Hygiene Compliance through Collaborative Computational Design. Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care, 11(1), 98–103. <https://doi.org/10.1177/2327857922111020>
- Platt, L.S. (2022) Using Human in The Loop AI Socioecological Modeling for Guiding Infection Prevention Through Design Resilience. *Environments by Design: Health, Wellbeing and Place*. AMPS Proceedings Series 26.1. ISSN 2398-9467

- Gao, Shangde, Wang, Yan, & Platt, L.S. (2021) Modeling U.S. Health Agencies' Message Dissemination on Twitter and Users' Exposure to Vaccine-related Misinformation Using System Dynamics. ISCRAM 2021 Conference Proceedings – 18th International Conference on Information Systems for Crisis Response and Management, (). Retrieved from <https://par.nsf.gov/biblio/10275066>.
- Platt, L.S., Fronczek A. (2020) Using a Fuzzy Framework for applying King's Theory of Goal Attainment to Improve Hospital Acquired Infection Resilience. *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care*. Sage India: New Delhi, India: SAGE Publications.
- Wang, Y., Hao, H., & Platt, L.S. (2020). Examining risk and crisis communications of government agencies and stakeholders during early-stages of COVID-19 on Twitter. *Computers in human behavior*, 106568.
- Platt, L.S., Li, H., Bass, C. E., & Yu, K. (2018, June). Validating Persuasive Experience (PX) Theory: Preliminary Results of a Case Study on a Corporate Wellness Program's Web-based Learning Interfaces. *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care* (Vol. 7, No. 1, pp. 56-63). Sage India: New Delhi, India: SAGE Publications.
- Platt, L.S., Li, H., & Bass, C. E. (2018, April). Evaluating Persuasiveness of Corporate Wellness Web-based learning interfaces. *Proceedings of the Technology, Mind, and Society* (p. 32). ACM.
- Platt, L.S., & Greene, M. (2017, July). Increasing Patient Safety Through Resilient Design: Using Human Factors Engineering and Environmental Support Mechanisms to Reduce Potentials of Hospital Acquired Infection. *International Conference on Applied Human Factors and Ergonomics* (pp. 3-10). Springer, Cham.
- Platt, L.S., Bosch, S. J., & Kim, D. (2017). Toward a Framework for Designing Person-Centered Mental Health Interiors for Veterans. *Journal of Interior Design*, 42(2), 27-48.

Select Healthcare Quality and Safety Folio Work

- Platt, L.S. (2020) Chapter 9: Designing for Resilience. *Design for Health 1st Edition Applications of Human Factors*. Edited by Sethumadhavan A. and Sasangohar, Amsterdam, The Netherlands: Elsevier.
- Health Research & Educational Trust. (2016, March). Improving Patient Experience Through the Health Care Physical Environment. Content Contributed by Lisa Platt, et.al. Edited by Kenney, L. and Martin D. Chicago, IL: Health Research & Educational Trust. Accessed at www.hpoe.org.
- Carter, R. & Platt, L.S. (2013) Chapter 7: Healing Environment Architecture and Design Conducive to Health. Planetree: The Putting Patients First Field Guide. Edited by Frampton, S., et.al. San Francisco, CA: Jossey-Bass.

Professional Experience

- 2019-Present Assistant Professor of Interior Design
- 2019-Present Florida Institute for Built Environment Resilience Research Faculty
- 2016-2018 Managing Partner of Human Factors Analysis, Research and Design Consultancy, Nashville, TN
- 2011-2016 Director for Product Development; Planetree International, Derby CT
- 2008-2011 Director of Interior Design, The CFP Group, Nashville TN
- 2005-2008 Director of Interior Design, Caldwell Associates Architects, Pensacola, FL
- 1993-2004 Senior Interior Designer and Senior Project Manager various U.S.-based Architecture, Engineering, and Design firms

Licensure and Certification

- State of Florida Board of Architecture and Interior Design; License Number: ID5220
- State of Tennessee Board of Architectural and Engineering Examiners Interior Design; License Number: 1163
- American Society of Quality ASQ Certified Six Sigma Black Belt; Certification Number: 16183
- U.S. Green Building Council Building Design + Construction; GBCI Number: 83942
- The Center for Health Design Evidence-Based Design Accreditation and Certification; CHD-05-8149
- National Council for Interior Design Qualification NCIDQ; Certification Number: 139134