

**Upali Nanda, PhD, Assoc.AIA, EDAC, ACHE**

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Principal & Sr. Vice President, Director of Research; HKS Inc.

Associate Professor of Practice, Taubman College of Architecture and Urban Planning, University of Michigan; Adjunct Faculty, School of Public Health, University of Michigan

Executive Director, Center for Advanced Design Research & Evaluation



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**Summary**

Dr. Upali Nanda is Director of Research for HKS, a global architectural firm. She is responsible for spearheading and implementing research projects globally. She also serves as the Executive Director for the non-profit Center for Advanced Design Research and Education. Her doctoral work on “Sensthetics” has been published as a book available on Amazon.com, and she has published extensively in peer-reviewed journals and main stream media. Widely published and quoted, and a frequent keynote speaker, her research has been awarded the European Healthcare Design Research Award, Journal of Interior Design Scholarship Excellence award, and three EDRA CORE awards. In 2015 Dr. Nanda was recognized as one of the top 10 most influential people in Healthcare Design for research, by the Healthcare Design Magazine. In 2018 she received the Architectural Record’s Women in Architecture Innovator Award.

**Research Emphasis**

Design and Health, Healthcare Architecture, Sensory Design, Point of Decision Design, Architecture & Neuroscience, Evidence-based Design, Workplace Wellbeing, Living Labs

**Key Words**

Research, Evidence-based Design, Healthcare, Neuro-architecture, Art, Sensory Design

**Education**

Ph.D	Texas A&M University, College Station, USA (Certificate in Health Systems and Design)	2001-2005
M.A (Arch)	National University of Singapore, Singapore	2000-2001
B.Arch	School of Planning and Architecture, India	1994-1999

### **Professional Appointments and Academic Experience**

<i>Principal, Member Board of Directors, Director of Research</i> HKS Inc.	2018- present
<i>Associate Principal and Sr. Vice President, Director of Research</i> HKS Inc.	2016- present
<i>Vice President, Director of Research</i> HKS Inc.	2013- 2016
<i>Executive Director,</i> Center for Advanced Design Research and Evaluation (CADRE)	2013- Present
<i>Founder, UNV INC</i>	2012- present
<i>Vice President and Director of Research</i>	2006- 2012
<i>Architect Intern</i> SK Das Associates, New Delhi	1997-1998

### **Academic Positions**

<i>Associate Professor of Practice</i> Taubman School of Architecture and Urban Planning, University of Michigan	2019-current
<i>Adjunct Faculty</i> School of Public Health, University of Michigan	2019- current
<i>Research Assistant</i> Dept. of Architecture, Texas A&M University Embodiment, Place-making, Perception, Interface between Neuroscience and Architecture	2001-2005

### **Grants**

<i>Get it Together Grant (multiple- PI)</i> \$ 5,000 on Repositioning Architecture, Design, and Health through New Interdisciplinary Partnerships	2021
<i>Guardian Grant (Co-PI)</i> \$100,000 on Wellbeing	2019
<i>M3 Grant [With school of medicine &amp; school of public health] (Co-PI)</i> \$60,000 grant on Point of Decision Design to reduce Obesity in Middleschool Children	2019
<i>ASID Transform Grant (PI)</i> \$70,000 grant on Senshetic Design for Autistic Spectrum Disorders/ Wellbeing	2017
<i>ASID Transform Grant (PI)</i>	2016

\$40,000 grant on Sensory Design Lab for Personalized Learning	
<i>AIA UpJohn Grant (PI)</i>	2015
\$20,000 grant on Point of Decision Design for Healthy College Campuses	
<i>Academy of Architecture for Health Foundation Grant (PI)</i>	2013
\$20,000 grant to develop a value-analysis framework for Lean-IPD projects	
<i>Research Coalition Grant, Center for Health Design (PI)</i>	2009
\$22,500 grant for Literature Review on Neuroscience Studies on	
Visual Images and Emotional processing (PI)	
<i>The Academy of Visual and Performing Arts Grant, Texas A&amp;M University</i>	2004
\$3000 to investigate issues of movement and time in sensory design	
<i>College Research Interdisciplinary Council Grant, Texas A&amp;M</i>	2003
\$3000 to investigate embodied mappings in sensory design	
<b><i>Selected Awards and Honors</i></b>	
EDRA CORE Award. Certificate of Merit	May 2021
<i>Workplace Research: A longitudinal study</i>	
Keynote Speaker: SimAUD Human+ Conference	Apr 2021
Journal of Interior Design Excellence Best Paper Award	Feb 2021
<i>Creating &amp; Testing a Sensory Wellbeing Hub</i>	
Design-Led Innovation Speaker: TechInnovation Singapore	Nov 2020
Keynote Speaker: Conscious Cities Festival	Oct 2020
Keynote Speaker: Tech+ LA	Feb 2020
Keynote Speaker Commencement Ceremony Texas Womens University	Dec 2018
Architectural Record, Innovator Award Women in Architecture	Nov 2018
Journal of Interior Design Excellence in Scholarship Award	Jan 2018
<i>EBD tools for designing and evaluating patient rooms</i>	
Keynote Speaker, Art, Design and Health,	Jun 2017
<i>Scripps Health Institute</i>	
Jury Member, Touchstone Award for Evidence-Based Design	Jul 2017
<i>Center for Health Design</i>	
European Healthcare Research Design Award	Jun 2016
<i>Salus. European Health Design</i>	
Keynote Speaker, AIA Academy of Health	Feb 2016
<i>From Healthcare to Health: A broader perspective</i>	
HCD 10 Most Influential People in Healthcare Design (Researcher)	Nov 2015
<i>Healthcare Design Magazine</i>	
EDRA CORE Award for Research Excellence in Practice (2 projects)	Aug 2015
<i>Environment Design Research Association</i>	

### Selected Service

AIA Board Knowledge Committee	2021- present
AIA Small Projects Award Jury	2020
Design in Health Advisory Council, UT Texas	2020- present
Board Member, Academy of Neuroscience for Architecture	2019-present
EBD Awards Jury, Center for Health Design	2017- present
Founder, HKS Lab	2016- present
Member, Associate Collegiate of Health Executives (ACHE)	2016- present
AIA Research Advisory	2016- present

### Research Integration in Built Projects (selected list)

UCSD Torrey Pines: Design and Mental Health	2018- present
Living Labs: Workplace Research on 3 Offices	2016- present
Children's Hospital of Atlanta: Human Experience and Transformation	2016- present
Promedica Toledo Tower: Design Diagnostic Med-Surg and ICU	2013-2014
Georgetown Medical Center: Experience Mapping Emergency Dept	2014-2015
Greenville Health System: Stakeholder Survey	2014
Akron Children's Hospital: Change Engagement Pulse Point	2013- present
CHI Baylor St Lukes: Design Diagnostic inpatient units	2015

### Selected Publications [Top 25]

1. **Nanda** U, Solway E, Ibrahim A, Singer D, Kirch M, Kullgren J, Malani P. (2021) At Home and in the Neighborhood During the COVID-19 Pandemic. University of Michigan National Poll on Healthy Aging. Available at: <http://hdl.handle.net/2027.42/166095>
2. **Nanda, U**; Wingler, D (2020). Practice-Based Research Methods and Tools: Introducing the Design Diagnostic. *HERD: Health Environments Research & Design Journal*, 13(4):11-26
3. Park, G.; **Nanda**, U.; Adams, L.; Essary, J.; and Hoelting, M. (2020). Creating and Testing a Sensory Well-Being Hub for Adolescents with Development Disabilities. *Journal of Interior Design*. 45(1),13-32
4. Slosberg, M.; Nejati, A. and **Nanda**, U. (2018). Transitioning to a New Facility: The Crucial Role of Employee Engagement. *Journal of Healthcare Management*. 63(1):63–77
5. Quan, X., Joseph, A., & **Nanda**, U. (2017). Developing evidence-based tools for designing and evaluating hospital inpatient rooms. *Journal of Interior Design*, 42(1), 19-38.
6. **Nanda**, U. (2017). A Sensesthetic Approach to Designing for Health. *Journal of Interior Design*, 42(2), 7-12. [Invited Paper]
7. Kash, B., McKahan, M., **Nanda**, U. (2018). Systematic Review of Emerging Models of Cancer Care: Implications for Facility Design. *Journal of Integrative Oncology*. 6:4
8. Quan, X., Joseph, A., **Nanda**, U., Moyano-Smith, O., Kanakri, S., Ancheta, C., & Loveless, E. A. (2015). Improving Pediatric Radiography Patient Stress, Mood, and Parental Satisfaction Through Positive Environmental Distractions: A Randomized Control Trial. *Journal of pediatric nursing*.
9. **Nanda**, U., K. Rybkowski, Z., Pati, S., & Nejati, A. (2017). A Value Analysis of Lean Processes in Target Value Design and Integrated Project Delivery: Stakeholder Perception. *HERD: Health Environments Research & Design Journal*, 10(3), 99-115.

10. Quan, X., Joseph, A., & **Nanda**, U. (2017). Developing Evidence-based Tools for Designing and Evaluating Hospital Inpatient Rooms. *Journal of Interior Design*, 42(1), 19-38.
11. Bosch, S. J., Apple, M., Hiltonen, B., Worden, E., Lu, Y., **Nanda**, U., & Kim, D. (2016). To see or not to see: Investigating the links between patient visibility and potential moderators affecting the patient experience. *Journal of Environmental Psychology*, 47, 33-43.
12. Quan, X., Joseph, A., **Nanda**, U., Moyano-Smith, O., Kanakri, S., Ancheta, C., & Loveless, E. A. (2016). Improving Pediatric Radiography Patient Stress, Mood, and Parental Satisfaction Through Positive Environmental Distractions: A Randomized Control Trial. *Journal of pediatric nursing*, 31(1), e11-e22.
13. Pati, D., O'Boyle, M., Hou, J., **Nanda**, U., & Ghamari, H. (2016). Can Hospital Form Trigger Fear Response?. *HERD: Health Environments Research & Design Journal*, 9(3), 162-175.
14. **Nanda**, U., Pati, S., & Nejati, A. (2015). Field Research and Parametric Analysis in a Medical–Surgical Unit. *HERD: Health Environments Research & Design Journal*, 1937586715577370
15. Joseph, A.; Quan, X; Keller, A.; Taylor, E.; **Nanda**, U and Hua, Y. (2014) Building a knowledge base for evidence-based healthcare facility design through a post-occupancy evaluation toolkit, *Intelligent Buildings International* 6(3); 155-169
16. Joseph A. and **Nanda**, U (Ed.) (2013). Tools for Healthcare Environments Research and Practice. EDRA Special Report. <http://www.edra.org/content/edra-special-report-development-tools-healthcare-environments-research-and-practice-0>
17. **Nanda** U., Taylor, E., Joseph, A., Quan, X.(2013). Flooring, Falls and Injury: An evidence-based approach. Pebble Issue Paper. Center for Health Design
18. **Nanda**, U.; Bajema, R., Hessam, Pati, D.(2013) Emotion follows Form, Form follows Function. *Intelligent Buildings International*, DOI:10.1080/17508975.2013.807767 (Invited Paper).

### **Book**

19. **Nanda**, U. (2008). *Senshetics: A Crossmodal Approach to Sensory Design*. VDM-Verlag.

### **Book Chapters**

20. **Nanda**, U. (2008). The Ventriloquist Effect in Architectural Design. In Ripley, C., Polo, M. and Wigglesworth, A. (Eds.) *In the Place of Sound*. Newcastle, UK. Cambridge Scholars Publishing.
21. **Nanda**, U. and Solovyova, I. Embodiment of the Eye in Architectural Education (2005). *Writings in Architectural Education by the European Association for Architectural Education. 2003-2005* This paper was selected as one of 8 finalists in the *Writings in Architectural Education Paper competition by EAAE 2003-2005*

### ***Selected Research Reports***

22. **Nanda** U, Solway E, Ibrahim A, Singer D, Kirch M, Kullgren J, Malani P. At Home and in the Neighborhood During the COVID-19 Pandemic. University of Michigan National Poll on Healthy Aging. January/February 2021. Available at: <http://hdl.handle.net/2027.42/166095>
23. **Nanda**, U. et al (2020). Community Bloc: A Framework for Healthy & Pandemic Resilient Communities. <https://www.hksinc.com/how-we-think/research/community-bloc-a-framework-for-healthy-and-pandemic-resilient-communities/>
24. **Nanda**, U. et al (2018). Personalized Medicine, Personalized Place <http://stories.hksinc.com/wp-content/uploads/2018/08/HKS-Research-PMPP.pdf>
25. **Nanda**, U. et al. (2017). Point of Decision Design. <http://issuu.com/cadreresearch/docs/pointofdecisiondesign>
26. **Nanda**, U., Nejati, A., Sekanwagi, S. (2015). Clinic 20XX: Designing for an Ever-Changing Present. Report. Retrieved from [http://issuu.com/cadreresearch/docs/clinic\\_20xx\\_report](http://issuu.com/cadreresearch/docs/clinic_20xx_report)
27. **Nanda**, U., Sekanwagi, S., Nejati, A. (2015). Healthcare Workplace: A Design Diagnostic of the Surgical Intensive Care Unit. Report. Retrieved from [http://issuu.com/cadreresearch/docs/midwest\\_sicu\\_report](http://issuu.com/cadreresearch/docs/midwest_sicu_report)