

Julie Zook

CURRICULUM VITAE

EDUCATION

Ph. D., Georgia Institute of Technology College of Architecture, 2016

Dissertation, *The flow of city life: An analysis of cinematography and urban form in New York and Los Angeles*

Committee: John Peponis, Ph.D. (Adv.), Sonit Bafna, Ph.D., Nancey Green Leigh, Ph.D., Patrick Keating, Ph.D., Daniel Koch, Ph.D.

Master of Architecture, University of Minnesota, College of Architecture and Landscape Architecture, 2005

Bachelor of Arts, English Literature, University of Minnesota, 1997

EMPLOYMENT

Associate Professor, School of Architecture, University of Illinois, Aug 2023-present

Assistant Professor, College of Architecture, Texas Tech University, Aug 2016-Aug 2023;
Tenured and scheduled for promotion in March 2022

Owner, Spatial Form (consultancy), 2018-present

Visiting Assistant Professor, College of Architecture, Texas Tech University, Aug 2015-Aug 2016

Graduate Teaching/Research Assistant, School of Architecture, College of Design, The Georgia Institute of Technology, 2007-2012; 2013-2015.

Research Associate: InformeDesign, College of Design, University of Minnesota, 2005-2007

English as a Second Language teacher and family advocate: Cedar Riverside Adult Education and Way to Grow, Minneapolis, 1996-2004.

RESEARCH AND CREATIVE ACTIVITY

Peer-reviewed publications

Book, co-edited

Zook, J. & Sailer, K. (Eds.) (2022). *The Covert Life of Hospital Architecture*. University College London Press: London. 9781800080881.

<https://www.uclpress.co.uk/products/178413>

Book chapters

Zook, J. (2022). The spatial dimension. In J. Zook & K. Sailer (Eds.), *The Covert Life of Hospital Architecture*. University College London Press: London. 9781800080881.

<https://www.uclpress.co.uk/products/178413>

Zook, J. & Bafna, S. (2022). The visitor and hospital corridor design. In J. Zook & K. Sailer (Eds.), *The Covert Life of Hospital Architecture*. University College London Press: London. 9781800080881. <https://www.uclpress.co.uk/products/178413>

Zook, J. & Bafna, S. (2016). The feel of space: Social and phenomenal staging in the Seattle Central Library. In R.C. Dalton & C. Hoelscher (Eds.), *Take One Building : Interdisciplinary Research Perspectives of the Seattle Central Library*. Routledge: New York. 978-1-4724-7114-7

Peer-reviewed articles published in journals or conference and symposia proceedings.

Peer-reviewed journal articles

Zook, J. (under review). Film form and the solid-field city typology in *Goodfellas* and *Pulp Fiction*. *Digital Humanities Quarterly*.

Zook, J. (under review) The handmaid's trail: Hospital architecture and the geometry of nurse work. *Technology and Culture*

Zook, J. Spence, T., & Joy, T. (2020). Balancing support for staff and patient centeredness through the design of immediate and relational space: A case study of

ambulatory care center layouts. *Health Environments Research and Design*, 14(1), 224-236.

Zook, J. B., Lu, Y., Glanz, K. & Zimring, C. (2012). Design and pedestrianism in a smart growth development. *Environment and Behavior*, 44(2), 216-234.

Bhatt, R. & Brand (Zook), J. (2008). Christopher Alexander: A review essay. *Design Issues*, 24(2), 93-102.

Peer-reviewed conference proceedings

Zook, J., Nanda, U., & Renner, K. (2019). ICU as informational interface. *Proceedings of the Twelfth International Space Syntax Symposium*. Beijing Jiaotong University.

Zook, J. (2017). Spatial schemata in museum floorplans. In T. Heitor et al. (Eds.) *Proceedings of the Eleventh International Space Syntax Symposium*. Instituto Superior Tecnico, Departamento de Engenharia Civil, Arquitetura e Georrecursos.

Zook, J. (2016). Spatial structure as a performance metric for health. In In H. Frumpkin & B. Faircloth (Eds.) *Proceedings of the American Collegiate Schools of Architecture*.

Zook, J. B., & Bafna, S. (2012). Imaginative content and building form in the Seattle Public Library. In M. Greene, J. Reyes, & A. Castro (Eds.), *Proceedings of the 8th International Space Syntax Symposium*. Santiago de Chile: PUC.

Articles (non-peer-reviewed)

Consulting and technical reports through Spatial Form (own consultancy)

Zook, J., Ambler, K., Winters, S. *Inpatient Unit Morphological Database*. Developed and populated a database on design features of hospital rooms. 2021.

Zook, J., Matthews, M. *Indiana Health Inpatient and Outpatient Unit Programming and Design*. Reviewed relevant research. 2021.

Zook, J., Matthews, M. *A Space Syntax Analysis of Inpatient Unit Floorplan Alternatives for Indiana University Academic Adult Health Center Patient Bedtowers*. Conducted space syntax analysis and review of literature for decision-making support between candidate layouts. 2021.

Zook, J. *BSA LifeStructures Healing Market Metrics*. Created research review, design guidelines, and environmental measures on falls, infection, errors, staff burnout and satisfaction, patient visit cycle, and population health. 2020.

Zook, J. *Architectural Metrics for Laboratories: Preliminary Report*. Identified potential topics and metrics. 2020.

Zook, J. *Color and the Visual Design of Corridors*. Reviewed relevant literature. 2020.

Zook, J. *Academic Medicine: Design and Evaluation*. Reviewed literature and synthesized key themes on design and academic medicine. 2020.

Zook, J. *Telehealth Planning and Design*. Reviewed literature and synthesized key themes. 2020.

Zook, J. *Review of Literature for Planning, Programming and Design at Fair Oaks Mall, Columbus IN*. 2020.

Zook, J. *Comparative space syntax analysis for Indiana University Health inpatient units*, Conducted space syntax analysis to compare multiple inpatient unit layout types. 2020.

Zook, J. *Space Syntax Analysis of Hillsborough Inpatient Units*. Conducted space syntax analysis to compare old and planned inpatient units. 2019.

Zook, J. *Spatializing the Gensler Workplace Experience Index*. Developed spatial correlates to test with measures workplace experience, 2018.

Zook, J. *Space syntax analysis of an office floor in the United Nations Building, 2018*.

Zook, J. *Space syntax to support study of wayfinding in eldercare communities*, National Institute of Aging/sub-contract with Grand Valley State University, conducted morphological measures of intelligibility, 2018.

Zook, J. *Space syntax analysis of candidate floorplan layouts: Mosaic Medical Patient-Centered Primary Care Center*, Mosaic Medical prototype building analysis, 2013.

Active Design Guidelines: Promoting Physical Health in Design, provided literature review and focus group participation in development of design guidelines, 2009, <https://www1.nyc.gov/site/planning/plans/active-design-guidelines/active-design-guidelines.page>

Consulting and technical reports as student member of the Georgia Tech Morphology Lab

Space Syntax Consulting: Edmonton Municipal Airport Redevelopment Masterplan, Perkins + Will, 2012.

Space Syntax Consulting: New Graduate School building, University of Oxford, John Simpson & Partners, 2008.

Invited paper

Zook, J. (2016) Cut to the pool. In J. Bonner (Ed.) *Art Papers*. February.

White paper

Spence, T., Zook, J., Watkins, N., Harper, E., & Knaup, C. (2013). *Smart Healthcare Infrastructure*, published online by the McGraw-Hill Global Financial Institute.

Book review

Zook, J. (2022, May 6). Review of the book *Machines for Living: Modernism and Domestic Life*, by V. Rosner. *The Journal of Architectural Education*, <https://www.jaeonline.org/articles/review/machines-living#/page1/>

Exhibitions curated

Ultra Healthy Housing: Architectural Proposals for Health and Wellness in Lubbock, TX Exhibition at Texas Tech Humanities Center Annual Conference (theme: health). April 29, 2022. Co-curated with Terah Maher. Student work by Jaden Brockway, Kabrina Cano-Ochoa, Kevin Carreon, Mattia Hamed, Jylian Hanson, Connor Krodel, Alexis Martinez, Jonathan Melendez, Manny Olivares, Kevin Pagel, Jeeseong Park, Jonathan Alexander Perez, Marc Loya Reyes, Annabelle Rice, Jakelin Silva, and Sergio Villegas

Rural Health and Typological Innovation Exhibition at Texas Tech College of Architecture Library; featured at annual career fair. January-March, 2019. Student work by Alexander Arroyo, John Darnell, Ryan Dumas, Ian Dupont, Asher Durham, Chas Gold, Jose Gonzalez, Danton Kranz, Zach Morris, Logan Patton, Salvador Sanchez, James Taylor.

Peer-reviewed conference presentations

Zook, J. "Spatial Translations: Hospital Architecture and the Status of the Human in Architectural Epistemology." Translations and Medical Humanities International Conference, University of Oxford, September 5-6, 2023.

Zook, J. "Hospital architecture and the templating of expertise" 4s/ESOCITE Joint Meeting, Cholula, December 7-10, 2022.

Ossmann, M., Zook, J., Pachilova, R., & Sailer, K. "Using space syntax in hospital design: Relating architecture to safety, teamwork, and experience," Healthcare Design Conference and Expo, San Antonio, October 8-11, 2022.

Zook, J., "Hospital architecture and the geometry of nurse paths," Presented at the History of Science Society/Society for the History of Technology (joint) Annual Meeting, virtual, November 17-21, 2021.

Zook, J., & Maher, T. Animating the experience of healthcare space," Animation & Public Engagement Symposium, Lubbock, September 20-21, 2019.

Zook, J., Nanda, U., & Renner, K. "ICUs as informational interfaces". Presented at the Twelfth International Space Syntax Symposium, Beijing, July 8-13, 2019.

Zook, J., Nanda, U., Renner, K., & Ossmann, M. "A data-driven approach to ICU design." Paper presented at the Healthcare Design Conference and Expo, Houston, November 11-15, 2016.

Joseph, A., Zook, J., Wingler, D., & Machry, H. "Evaluating the impact of spatial configuration on dynamic care interactions in ambulatory surgical environments," Environmental Design Research Association, Oklahoma City, June 6-9, 2018.

Zook, J., KazemZadeh, M., & Ossmann, M. "Hospital corridor systems: Complexity, growth, & intelligibility." Paper presented at the Healthcare Design Conference and Expo, Orlando, November 11-14, 2017.

Zook, J. "Spatial schemata in museum floorplans." Presented at the Eleventh International Space Syntax Symposium, Lisbon, July 4-7, 2017.

Zook, J. & Peavey, E. "Cross professional communication in hospital corridors". Paper presented at the Environmental Design and Research Association Conference, Madison, May 29-31, 2017.

Zook, J. Ossmann, M. & Barnes, R. "Assess and design for patient visibility and awareness in ICUs." Paper presented at the Healthcare Design Conference and Expo, Houston, November 10-13, 2016.

Zook, J. 2016. "Spatial structure as a performance metric for health." Paper presented at American Collegiate School of Architecture Fall Conference, Design and Health. University of Hawaii at Manoa, Honolulu, September 22-24, 2016.

Zook, J. & Bafna, S. "Imaginative content and building form in the Seattle Public Library." Eighth International Space Syntax Symposium, Escuela de Arquitectura, Pontificia Universidad Católica de Chile, Santiago, Chile. January 2-6, 2012.

Zook, J. "Liveliness and walkability are not the same thing: The role of the local-to-global urban scale." International Society on Urban Form. Montreal, Canada. July 2-6, 2011.

Brand, J. "Culture and form in an urban, immigrant neighborhood." Environmental Design Research Association. Atlanta, 2006.

Brand, J. "On drawing: From denotation to exemplification in first-year student work." National Conference on the Beginning Design Student. Atlanta, May 4-6, 2008.

Invited lectures, panel discussions, and moderation

Invited keynotes

Zook, J. "The social logic of health", 13th International Space Syntax Symposium, Bergen, June 20-24, 2022.

Zook, J. "Pillow, table, hallway, yard: Healthcare architecture at scale", National Hospital Infrastructure Summit, Sydney, December 4-5, 2019.

Invited presenter and panelist

Zook, J. "Healthy futures", 2022 AIA/ACSA Intersections Research Conference: Resilient Futures, virtual, October 6-7, 2022.

Invited panelist or moderator

Moderator for "Making New Rules: Zoning", concurrent session. American Collegiate Schools of Architectural Annual Meeting, St. Louis, MO: April 1, 2023.

Panelist for "Opportunities", Rural Health Symposium: Reimagining America's Rural Healthcare", Lubbock, TX: October 4, 2022.

Panelist on "Healthcare Acquired Infection", National Hospital Infrastructure Summit, Sydney, December 4-5, 2019.

Consulting-related invited lectures (selected)

"Metrics Test Drive", BSA LifeStructures, Indianapolis, IN. (December 2021).

"ICU Analysis and Design", HKS annual healthcare principals meeting, Dallas, May 2018.

Invited university lectures (recent)

Zook, J., Graduate seminar: Buildings, Organisations, Networks, "The visual structure of nurse work," University College London Bartlett School of Architecture, by Zoom. (November 2021 and December 2022)

Zook, J., 3-part lecture/workshop on "The social dimension of infrastructure," Texas Tech University Department of Civil, Environmental, and Construction Engineering, for the National Science Foundation funded initiative *Developing Reflective Engineers through Artful Methods (DREAM)*, Drs. Danny Reible and Jeong-Hee Lee. (March 2021).

Talks in service to the discipline and profession (recent)

Zook, J., American Institute of Architects AAH/ACHA Summer Leadership Summit Educators Roundtable, "Foundation for Health Environments Research: Grands for Researchers and Fellowships for Students," American Institute of Architects, by Zoom. (August 2021)

Zook, J., College of Architecture Design Leadership Alliance, "On the Future of Architecture," College of Architecture Design Leadership Alliance, Lubbock. (February 2021)

Other invited talks

"A morphology of cinematic cities" Geocriticism, *journée d'étude*, February 2018, Texas Tech

"The flow of city life", Humanities Center Alumni College, October 2017, Texas Tech

Symposia and conferences

Conference co-chaired, Borsuk, M., Zook, J., & Baum, J. Texas Tech Humanities Annual Conference, themed on health (April 29, 2023). Lubbock, TX.

Symposium convened: Zook, J., Baum, J. (co-chairs), Health: Architectural and Historical Contexts, Texas Tech College of Architecture, Virtual. (April 2021). Scholars from architecture and history spoke on themes of embodiment, space, and technology: Drs. Jacob Baum (moderator), Lucia Carminati, David Gissen, Dale Kretz, David Theodore, Jennifer Wallis, and Julie Zook

Paper given: "The Strange Space of the Hospital Corridor," Texas Tech College of Architecture, virtual (April 2021)

Citations of work

(via GoogleScholar)

Title, year	Citations
<i>Design and pedestrianism in a smart growth development, 2011</i>	51
<i>Imaginative content and building form in the Seattle Central Public Library, 2012</i>	21
<i>ICU as informational interface, 2019</i>	4
<i>The spatial dimension of hospital life, 2022</i>	2
<i>The flow of city life: An analysis of cinematography and urban form in New York and Los Angeles, 2016</i>	1
<i>Spatial schemata in museum floorplans, 2017</i>	2

GRANTS

Research grants and funding

Research and funding as co-/principal investigator

Texas Tech University College of Architecture Summer Research and Creative Activities Grant Program, \$5,000, *Developing a book prospectus on the history of research in healthcare architecture*. June-August, 2022.

Externally sponsored project, BSA LifeStructures, \$30,151, *Improving architectural practice through an expanded, integrated post-occupancy evaluation program*. May-December, 2022.

Texas Tech Humanities Center Annual Theme Proposal Competition, \$25,000, co-led proposal to convene a campus-wide speaker series, film series, and exhibition on health for the academic year 2022-2023. With Jacob Baum (co-lead), Paul Bjerck, Perry Carter, Terah Maher, Paul Reinsch, and Vickie Sutton.

Texas Tech University Scholarship Catalyst Grant, \$3,000, to support the project *The sociology of architecture: Mapping the field*, January-December, 2022.

BSA LifeStructures Scholar, \$15,000, to pay student research assistants in support of my work. 2018-2021.

Research funding as co-investigator or research assistant

Identity and resistance in global contexts, \$99,759, co-investigator with Alec Cattell (principal investigator) and others. Funding from Texas Tech Center for Global Communication in support of activities to support an undergraduate global communication literacy, Fall 2017-Spring 2019

A space syntax analysis and design recommendations for inpatient unit floorplan alternatives for Indiana University Academic Adult Health Center patient bed towers, BSA LifeStructures, October 2020. Julie Zook

Space syntax analysis for the masterplan of Medina, Dar Al-Handasah; analyzed masterplan proposals for the area of Medina near the Mosque of the Prophet, May-August 2014. Principal Investigator: Dr. John Peponis

Risk-conscious design and retrofit of buildings for low energy, National Science Foundation – Emerging Frontiers in Research and Innovation: Science in Energy and Environmental Design; assessed normative models of energy use; conducted parametric analysis to compare the performance of heuristic models and physics-

based models in predicting measured building energy use, 2010-2011. Principal Investigator: Dr. Fried Augenbroe

Healthcare environments-Baseline assessment of safety and quality; US Department of Defense Tricare Management Activity; research activities in support of improved design for the Military Healthcare System, 2009. Principle Investigator: Dr. Craig Zimring

Study of employee quality of life; US Centers for Disease Control; Assessed walking behavior at a large, urban smart growth development; published a case study, 2008-2009. Principal Investigators: Drs. Craig Zimring and Karen Glanz

AWARDS

Texas Tech University Alumni Association New Faculty Award, 2018.

Architectural Research Centers Consortium King Medal, for excellence in dissertation research, 2016.

Environmental Design Research Association's Certificate of Research Excellence for research conducted with BBH Design for the Saint Mary's School, 2015

Georgia Institute of Technology President's Fellowship, Architecture, 2007-2013

Alpha Rho Chi Award, University of Minnesota College of Design, 2001

Katherine E. Sullivan Scholarship (winner), 1996-1997, for a year of additional year of university undergraduate study in a location proposed by the applicant (Vietnam)

TEACHING

Courses taught

Courses taught at the University of Illinois School of Architecture

Fa 2023, Arch 521/321, Environment, Architecture, and Global Health

Fa 2023, Arch/LA 563, Human-centric Research for Designed Environments

Courses taught at the Texas Tech College of Architecture (excluding directed/independent studies and thesis advising credits)

Sp 2023, Arch 4602, Architectural Design Studio VIII: Ultra Healthy Housing

Sp 2023, Arch 3314, Arch Contemporary Issues: Spatial Morphology and Typology

Fa 2022, Arch 4601, Architectural Design Studio VII: Rehabilitation (Stroke Survivor)

Sp 2022, Arch 5604 Arch Design + Research III: Design for Mental Health

Fa 2021, Arch 3314, Arch Contemporary Issues: Data, Society, & Space

Fa 2021, Arch 4601, Architectural Design Studio VII: Sustain Health

Fa 2021, Arch 5501, Adv Arch Design: Design for Academic Medicine

Sp 2021, Arch 5301, Spatial Morphology and Typology

Fa 2020, Arch 4601, Architectural Design Studio VII: Good Architecture for Hard Times

Sp 2020, Arch 5501, Adv Arch Design: Second Life

Fa 2019, Arch 3314/5301, Spatial Morphology and Typology

Sp 2019, Arch 2504, Architectural Design IV

Fa 2018, Arch 4341, Architecture through Film

Fa 2018, Arch 5501, Adv Arch Design: Rural Health and Typological Innovation

Fa 2018, Arch 3314/5301, Spatial Morphology and Typology

Fa 2018, Arch 2402, Architectural Design Studio III

Fa 2017, Arch 5506, Collaboration Studio (Architecture, Landscape Architecture)
Center for Treatment of Substance Use Disorder

Sp 2017, Arch 4341, Architecture through Film

Fa 2016, Arch 5301, Spatial Morphology

Fa 2016, Arch 2401, Architectural Design Studio III

Sp 2016, Arch 2401, Architectural Design Studio IV

Fa 2015, Arch 3501, Architectural Design Studio V

Courses taught at the Georgia Institute of Technology School of Architecture

Sp 2015, COA 2011, Architectural Design Studio I

Fa 2014, COA 3011, Architectural Design Studio III

Su 2010, COA 8823, Post Occupancy Evaluation, co-taught by Dr. Craig Zimring

Sp 2010, COA 8823, Evidence-Based Design: Healthcare Architecture, co-taught by Dr. Craig Zimring

Fall 2009, COA 1101, Fundamentals of Design

Scholarly Advising of Students

Thesis Chair

Turki Althaqib, *Learning in healthcare space: Case studies in outpatient diabetes care centers*. Texas Tech University College of Architecture, Dr. Julie Zook (chair), Dr. Saif Haq, Dr. Lisa Lim

Dissertation Examination

Dissertation examination of Rosica Pachilova, Dec 2019, *Exploring quality of care in hospital wards: The effect of spatial layout, staff work activities and communication patterns*. University College London Bartlett School of Architecture, Dr. Kerstin Sailer (adviser), Professor Phil Steadman, Dr. Julie Zook.

Member of Comprehensive Examination Committee for PhD Degree Students

Sahar Mihandoust, Fall 2018

SERVICE

Regional, national, and international professional and disciplinary service

On review panel for *Nature: Science Communication*, *Frontiers of Architectural Research*, and *Health Environments Research and Design Journal*

2023-, Chair, Great Places Award Committee, Environmental Research and Design Association (EDRA)

2020-2023, Association of the Collegiate Schools of Architecture Reviews Board Committee Member

2019-2023, Board Member and Research Chair, Foundation for Health Environments Research (formerly, Academy of Architecture for Health Foundation). During 2021, the number of grants/awards we organize rose from one to three as more private funders sought assistance with research grant award and administration.

2019-2023, Texas Tech Humanities Center Advisory Board

2017, reviewer for Association of the Collegiate Schools of Architecture fall 2017 conference submission abstracts

2016, 2019, Academy of Architecture for Health Foundation application review and selection for annual research grant

2016, 2018 Faculty advisor, Steris AIA/AAHF Student Design Charrette at Healthcare Design Conference and Expo

2015, reviewer for Environmental Design Research Association individual and group presentations for the 2015 meeting