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Education

Master of Architecture II, Cornell University, Ithaca, NY, 2001. Master of Architecture, State University of New York at Buffalo, 1998. Bachelor of Professional Studies, State University of New York at Buffalo, Graduated Cum Laude, 1996.

Academic Appointments

University of Michigan, Taubman College of Architecture & Urban Planning, Ann Arbor, MI Associate Professor, 2022-present Assistant Professor, 2015-2022 Course Lecturer I + II, 2008-2015 Walter B. Sanders Fellow, 2007-2008

McGill University, Montréal, QC Course Lecturer, 2006

State University of New York at Buffalo, NY

Clinical Assistant Professor, 2002-2003 Reyner Banham Fellow, 2001-2002

Professional Experience

Principal, Tsz Yan Ng Design, Ann Arbor, MI, 2004-present Associate Designer, Studio for Architecture: Mehrdad Hadighi, Buffalo, NY, 2002-2003 Associate Designer, Ahari & Associates, New York, NY, 1998-1999 Summer Intern, Peter Himmelstein Design, New York, NY, 1995

Honors and Awards for Research, Practice, or Scholarship

Ng, Tsz Yan, Wes McGee, SOM Chicago. "SPLAM Timber Pavilion" AIA National Small Project Awards 2022. Link

Ng, Tsz Yan, Wes McGee, SOM Chicago. "SPLAM Timber Pavilion" Finalist for *Fast Company's 2022 World Changing Ideas Awards*, architecture category. Link.

Ng, Tsz Yan, Wes McGee, SOM Chicago. "SPLAM Timber Pavilion" Finalist for *Fast Company's 2022 Innovation by Design Awards*, sustainability category, September 15, 2022. Link

SOM Chicago, Tsz Yan Ng, Wes McGee. "SPLAM Timber Pavilion" Best Special Structure Award from the Structural Engineers Association of Illinois (SEAOI), November 2022. Link

Ng, Tsz Yan. Emerging Voices 2022 Award. Architectural League of New York, New York. Link.

Ng, Tsz Yan. ARCC New Researcher Award 2020. Architectural Research Centers Consortium, Valencia, Spain.

Ng, Tsz Yan, Wes McGee, and Asa Peller. "Robotic Needle Felting." Shortlisted for *Dezeen Award 2019,* category Workplace Design.

Ng, Tsz Yan, Wes McGee, and Asa Peller. "Robotic Needle Felting." *Faculty Design Award 2019,* Honorable Mention, ACSA, Association of Collegiate Schools of Architecture, 2019.

Wes McGee, Tsz Yan Ng, and Asa Peller. "Hard + Soft: Robotic Needle Felting for Nonwoven Textiles." *Young Potential Best Paper Award Runner-up*, Kuka Robotics and Rob|Arch (Association for Robots in Architecture), 2018.

Ng, Tsz Yan, Wes McGee, and Asa Peller. "Robotic Needle Felting." *Finalists* for 2018 Architizer's A+ Acoustics Award.

Ng, Tsz Yan, Wes McGee, and Asa Peller. "Robotic Needle Felting." *Citation* for R+D Awards 2018, Architect Magazine.

Ng, Tsz Yan. *Research Residency Fellow*, Tokyo Wonder Site, Institute of Contemporary Arts and International Cultural Exchange (architecture), Tokyo, Japan, 2016.

Ng, Tsz Yan. "The Visibility of Labor." *Honorable Mention*, Best of 2015: Our Top Exhibitions Across the United States, Hyperallergic, 2015.

Ng, Tsz Yan. "Sartorial Architecture." *Ilse Traulsen Fellow*, MacDowell Colony Fellowship (architecture), summer 2014.

Ng, Tsz Yan, Josh Bard, Steven Mankouche, and Matthew Schulte. "Digital Steam Bending." *Faculty Design Award*, Honorable Mention, ACSA, Association of Collegiate Schools of Architecture, 2012.

Ng, Tsz Yan. "The Spratly Fatigue." 2nd place, Looking Both Ways juried competition. Eastern Michigan University, 2011.

Ng, Tsz Yan, Josh Bard, Steven Mankouche, and Matthew Schulte. "Civic Bend." *Citation for Design*, Unbuilt Architecture Awards, Boston Society of Architects, 2010.

Ng, Tsz Yan. Walter B. Sanders Teaching Fellowship, University of Michigan, Ann Arbor, 2007-2008.

Ng, Tsz Yan. Ph.D. Fellowship, McGill Major Award. McGill University, 2004-2006.

Ng, Tsz Yan. Departmental Fellowship, McGill University, 2004.

Ng, Tsz Yan. Reyner Banham Teaching Fellowship, State University of New York at Buffalo, 2001-2002.

Ng, Tsz Yan. Helen Fagan Tyler Graduate Fellowship, Cornell University, 1999-2000.

Ng, Tsz Yan. Mary Miller Lyons Graduate Fellowship, Cornell University, 1999-2000.

Ng, Tsz Yan. AAUW Professional Degree Fellowship, American Association of University Women, 1997-1998.

Ng, Tsz Yan. Distinguished Entry Award, Real/Virtual Downtown Competition, Van Alen Institute, New York, 1997.

Ng, Tsz Yan. Buckminster Fuller Award in Design, State University of New York at Buffalo, 1996.

Ng, Tsz Yan. "Sidney Visitors Center Competition." *Honorable Mention*, Pella Corporation and WESTNY Building Products, 1996.

Edited Book Volume

Ng, Tsz Yan, Mehrdad Hadighi, and Marc Neveu, editors. *Twisted: Lafayette 148 New York Shantou Building*, contributors: Mark Linder, Brian Carter, and Nina Rappaport. Actar Publishing, 2018.

Book Chapters

Ng, Tsz Yan. "The Case for R+D," in *After Concrete*. Lucia Allais, Forrest Meggers, Michael Faciejew. (forthcoming, in review)

Ng, Tsz Yan. "Concrete Twist on Labor." *Twisted*, edited by M. Neveu, M. Hadighi, and T. Ng, Actar, 2018, 119-127.

Ng, Tsz Yan. "Lafayette 148." *Fellowships in Architecture*, edited by Monica Ponce de Leon, ORO editions, 2009, pp. 180-183.

Ng, Tsz Yan. "Rail/Ground Construction & Lafayette 148." *Middle_Out: practices, geographies and the near now,* edited by Jason Young, The Regents of the University of Michigan, 2008, pp. 59-66, 127-133.

Ng, Tsz Yan. "The Spratly Fatigue." *Looking Both Ways*, edited by Guey-Meei Yang & Tom Suchan, Eastern Michigan University, 2011, pp. 56-57.

Ng, Tsz Yan. "Lafayette 148." 70 Architect(e)s on Ethics and Poetics, edited by Louise Pelletier, Centre de Design de l'UQAM, 2007, pp. 103-4.

Peer Reviewed Journal Articles

Zhu, He, K. Yu, W. McGee, T. Ng, V. C. Li. "Limestone Calcined Clay Cement for Three-Dimensional Printed Engineered Cementitious Composites." *Advances in Rheology and Additive Manufacturing in Construction,* Ed. Kamal H. Khayat, Shiho Kawashima. *Journal of the American Concrete Institute*, November 2021, 111-122, https://www.concrete.org/publications/internationalconcreteabstractsportal.aspx?m=details&id=51733109

Yu, Kequan, V. C. Li, W. McGee, T. Ng. "3D-Printable Engineered Cementitious Composites (3DP-ECC): Fresh and Hardened Properties." *Cement and Concrete Research* 143, May 2021, 106388, https://doi.org/10.1016/j.cemconres.2021.106388

Li, Victor, F. Bos, K. Yu, W. McGee, T. Ng, S. Figueriredo, K. Nefs, V. Mechtcherine, V. Nerella, J. Pan, and G. van Zijl, J. Kruger. "On the emergence of 3D printable Engineered, Strain Hardening Cementitious Composites." *Cement and Concrete Research* 132, 2020, https://doi.org/10.1016/j.cemconres.2020.106038

Ng, Tsz Yan. "Labor Visible and Invisible." *Interiors*, Volume 9, no. 1, March 2018, 42-59. Published online: March 2019, https://doi.org/10.1080/20419112.2018.1482119

Peer Reviewed Journal, edited

Ng, Tsz Yan, and Peggy Deamer, eds. *WORK, JAE Journal of Architectural Education*, 73:2, October 2019. www.jaeonline.work/tag/work, http://doi.org/10.1080/10464883.2019.1667718

Journal, edited (non-peer reviewed)

Ng, Tsz Yan, Jono Sturt. Editors, *Inflections, Gradient Journal 2021-2022*. Taubman College's on-line journal. September 2021-October 2022, with three drops: Bias, Oblique, and Parallel. With Editorial Committee and contributions by: Matias del Campo, Catie Newell, Vyta Pivo, Jose Sanchez, Rebecca Smith, Kathy Velikov, and Peter von Bülow. With contributions by: Molly Claypool, Dana Cupkova, Shelby Doyle, Andrew Kudless, and Achim Menges. Link

Professional Journal Articles (non-peer reviewed)

Ng, Tsz Yan, McLain Clutter, and Rebecca Smith. "Postcript," *Gradient Journal,* Feed #2, *Inflections*, November 14, 2022. Link

Ng, Tsz Yan, Wes McGee, SOM Chicago & Epic Academy. "SPLAM, Spatial-Laminated Timber (SLT) Pavilion/Outdoor Classroom. *Gradient Journal, Papers*, Feed #2. https://gradient-journal.net/papers

Ng, Tsz Yan, Catie Newell, Kathy Velikov. "Material Excerpts, a conversation with Mollie Claypool, Dana Cupkova, and Achim Menges. *Gradient Journal* feed #2, *Inflections*, November 19, 2021. https://gradient-journal.net/articles/material-excerpts

Ng, Tsz Yan. "Recto | Verso," *Dimensions 22 Journal of Architecture of the Taubman College of Architecture + Urban Planning*, University of Michigan, 2009, pp. 130-139.

Ng, Tsz Yan, Torben Berns, and Dan Maxfield. "Inscribe," *Journal for the School of Architecture* 7, Cornell University, 2003, pp 7-17.

Ng, Tsz Yan, Anthony Dong, Mehrdad Hadighi, Isreal Lowry, and Aspassia Papazaharia. "Ska-Fold. Greenport Waterfront Competition." *Intersight V Journal for the School of Architecture*, State University of New York at Buffalo, 1999, pp. 81-91.

Peer-reviewed Academic or Professional Conference Papers

Ng, Tsz Yan, W. McGee. "Topology + Timber," *Resilient City, Physical Social, and Economic Perspectives, Architectural Research Centers Consortium, ARCC, and European Association for Architectural Education, EAAE, 2022, Miami, 367-374. (paper proceedings, link)*

Ng, Tsz Yan, S. Ahlquist, E. T. Filipov, T. Weisman. "Active-Casting_Functionally Graded Knits for Volumetric Concrete Casting." B. Slocum, V. Ago, S. Doyle, A. Marcus, M. Yablonina, M. del Campo (eds) *Distributed Proximity, ACADIA 2020*, 546-555. (paper proceedings, link)

Bruce, Mackenzie, Gabrielle Clune, R. Culligan, K. Vansice, R. Attraya, W. McGee, T. Ng. "Form[less]: Robotically Thermoformed Molds for Concrete Casting," in B. Slocum, V. Ago, S. Doyle, A. Marcus, M. Yablonina, M. del Campo (eds) *Distributed Proximity, ACADIA 2020*, 526-535. (paper proceedings, link)

McGee, W., T. Ng, V. Li, K. Yu. "Extrusion Nozzle Shaping as an Approach for Improved 3DP Engineered Cementitious Composites (ECC/SHCC)," in Bos F., Lucas S., Wolfs R., Salet T. (eds) Second RILEM International Conference on Concrete and Digital Fabrication. Digital Concrete 2020. RILEM Bookseries, vol 28. Springer, Cham, 916-925. https://doi.org/10.1007/978-3-030-49916-7_89

He, Jinhui, He, Xiaojie Cao, Tsz Yan Ng, Wes McGee. "Precarious Stand." *ACADIA 2019*, *Ubiquity & Autonomy*, University of Texas at Austin, 2019, 68-73. (project proceedings)

Ng, Tsz Yan, Wes McGee, and Asa Peller. "Robotic Needle Felting." *ACSA 2019, Black Box: Articulating Architecture's Core in the Post-Digital Era,* Pittsburgh, 2019. Session: Material Frontiers. ACSA Publishing, 362-363. (project proceedings)

Ng, Tsz Yan, Wes McGee, and Asa Peller. "Robotic Needle Felting." *ACADIA 2018, Re/calibration: on imprecision and infidelity*, Mexico City, MEX, 2018, 186-191. (project proceedings)

McGee, Wes, Tsz Yan Ng, and Asa Peller. "Hard + Soft, Robotic Needle Felting for Nonwoven Textiles." *ROB*|*ARCH* 2018, *Radical Cross-disciplinarity*, Zurich, CH, 2018, in *Robotic Fabrication in Architecture, Art and Design 2018*, edited by Jan Willmann, Philippe Block, Marco Hutter, Kendra Byrne, and Tim Schork. Cham, Switzerland: Springer, 2018, 192-204. https://doi.org/10.1007/978-3-319-92294-2_15

Ng, Tsz Yan and Wes McGee. "Public Domesticity – Digital Fabrication and Design-build in Detroit." ACSA 2018 International, New Instrumentalities, Madrid, ES, 2018, 42-48. https://doi.org/10.35483/ACSA.Intl.2018.8

Ng, Tsz Yan, and Wes McGee. "Thermoplastic Concrete Casting," TxA Emerging Design + Technology, Texas Society of Architects, Austin, Texas, 2018, 20-31. https://texasarchitects.org/wp-content/uploads/2021/01/2_TCC.pdf

Ng, Tsz Yan and Wes McGee. "Thermoplastic Concrete Casting." *ACADIA 2017 Disciplines + Disruption,* MIT, Cambridge, MA, 2017, 210-215. (project proceedings)

Goold, Ryan, Daniel Fougere, Tsz Yan Ng, and Wes McGee. "Concrete Lattice." ACADIA 2017 Disciplines + Disruption, MIT, Cambridge, MA, 2017, 144-149. (project proceedings)

Goold, Ryan, Daniel Fougere, Tsz Yan Ng, and Wes McGee. "Concrete Lattice, Unitized Architecture of Assembly" in ARCC 2017, Architecture of Complexity, Salt Lake City, UT, 2017.

Goold, Ryan, Daniel Fougere, Tsz Yan Ng, and Wes McGee. "Concrete Lattice, Unitized Architecture of Assembly" *Move to Detroit,* ACSA 105th Annual Meeting Conference, Detroit, MI, 2017. (project proceedings)

Ng, Tsz Yan. "StereoNegative_a tribute to Tony Smith." *ACADIA 2016, Posthuman Frontiers*, Ann Arbor, MI, 2016. (project proceedings)

Ng, Tsz Yan. "Concrete Labor." Shaping New Knowledges, ACSA 104th Annual Meeting, Seattle, WA,2016.

Patents/Provisional Disclosure

Ng, Tsz Yan, Sean Ahlquist, Evgueni T. Filipov, Tracey Weisman. Knit Formwork Casting. US 63/104,309. *Provisional Patent Disclosure*, issued 2020. International Patent application No: PCT/US21/56179, October 22, 2021.

Ng, Tsz Yan, Jonathan W. McGee, and Victor C. Li. Additive Manufacturing of Engineered Cementitious Composites. 2020-168. *Provisional Patent Disclosure*. US, issued 2019. International Patent application No: PCT/US2021040387, July 2, 2021, US patent filing December 28, 2022.

Ng, Tsz Yan, and Jonathan W. McGee. Additive Manufacturing of Nonwoven Textiles. 2020-127. *Provisional Patent Disclosure*. US, issued 2019.

Academic or Professional Lectures or Presentations

Ng, Tsz Yan. "The Case for R+D_Research, Design, and Manufacturing," Keynote for University of Tennessee Manufacturing and Design Innovation Showcase, October 17, 2022. Link

Ng, Tsz Yan. "The Case for R+D," Raneiro Corbelleti Memorial Lecture, Stuckeman School of Architecture, Pennsylvania State University, August 24, 2022. Lecture. Link

Ng, Tsz Yan, Sean Ahlquist, Evgueni T. Filipov. "Knit Casting – experiments in controlling concrete's inflation for CNC manufactured knit formwork," *Digital Concrete 2022,* Loughborough University, June 26-29, 2022. Presentation.

Ng, Tsz Yan. "Emergent Labor - revising workforce skills in context to R+D and automation," and "Alternative Forming | Forming Alternatives – innovations in concrete forming," *Tilt-Up Future Think 3.0, Tilt-Up Concrete Association,* May 16, 2022. Museum of Contemporary Art (MCA), Chicago. Two sessions: Fabrication & Workforce. Link

Ng, Tsz Yan. "Old techniques, New Processes - textile innovations for architecture." ARCINTEX US Conference. Proposals for Other Worlds: Architectures, Materials, Interactions. April 7-8, 2022, Penn State University. Link.

Ng, Tsz Yan. Emerging Voices Presentation. The Architectural League of New York, March 17, 2022. Presentation and panel discussion. Link

Ng, Tsz Yan, W. McGee. "Topology + Timber," Resilient City, Physical Social, and Economic Perspectives, Architectural Research Centers Consortium, ARCC, 2022, Miami. Presentation.

Ng, Tsz Yan. "Recent Works." AIA Colorado Practice + Design Conference, Place. Keynote for [Re]Place-Innovation, Oct. 7, 2021.

Ng, Tsz Yan. *Peter Reyner Banham Fellowship – 20th Anniversary Symposium,* State University of New York at Buffalo, March 6, 2021. Session: Megastructure + A Concrete Atlantis.

Ng, Tsz Yan. Arizona AlA Associate Conference Panel Discussion. Session: *Research, Technology, and Academia. Field Condition: Exploring Interdisciplinary Horizons in Design & Architecture,* February 26, 2021.

Ng, Tsz Yan, Sean Ahlquist, and Evgueni T. Filipov. "Active Casting_Functionally Graded Knits for Volumentric Concrete Casting." *ACADIA 2020, Distributed Proximity*, 2020, Session: Programmable Matter. Presentation.

Ng, Tsz Yan. "Reconsidering Framework for Concrete Research_notes on expectation and challenges." public conference presentation for *Rethinking Concrete: Material Conventions in the Anthropocene*, School of Architecture, Princeton University, October 22-23, 2020.

Ng, Tsz Yan. "Hard + Soft: labor, crafting, and aesthetics." Public Lecture Series on Digital Fabrication, Department of Design, San José University, 2020

Ng, Tsz Yan. *Homing the Machine Symposium*, Ohio State University, Knowlton School of Architecture. Panel: Material Culture, presentation and panel discussion, 2020. www.homingthemachine.com

Ng, Tsz Yan. "Externalities, of influence and effects." Cranbrook Academy of Art. Public Lecture Series, 2019. http://cranbrookart.edu/event/lecture-tsz-yan-ng/

Ng, Tsz Yan and Asa Peller. "Robotic Needle Felting." ACSA 2019, Black Box: Articulating Architecture's Core in the Post-Digital Era, Pittsburgh, 2019. Session: Material Frontiers. Presentation.

Ng, Tsz Yan and Wes McGee. "Robotic Needle Felting." *ACADIA 2018, Re/calibration: on imprecision and infidelity*, Mexico City, MEX, 2018. Presentation.

Ng, Tsz Yan and Wes McGee. "Hard + Soft: Robotic Needle Felting for Nonwoven Textiles." *ROB*|*ARCH* 2018, *Radical Cross-disciplinarity*, Zurich, CH, 2018. Presentation.

Ng, Tsz Yan. "Public Domesticity." ACSA 2018 International, New Instrumentalities, Madrid, ES, 2018. Presentation.

Ng, Tsz Yan. "Public Domesticity_art, architecture, and urban design." *Michigan Mellon Colloquium*, Taubman College, University of Michigan, Ann Arbor, MI, 2017. Lecture.

Ng, Tsz Yan. "Thermoplastic Concrete Casting." *TxA 2017 Emerging Design + Technology*, Texas Society of Architects, 2017. Presentation.

Ng. Tsz Yan. "Thermoplastic Concrete Casting." *ACADIA 2017, Disciplines + Disruption*, MIT, Cambridge, MA, 2017. Selected project panel presentation.

Ng, Tsz Yan. "Labor Visible and Invisible." *Unmentionable Symposium*, Helms Design Center, Woodbury University, Los Angeles, 2017, Presentation.

Goold, Ryan, Tsz Yan Ng. "Concrete Lattice Unitized Architecture of Assembly." *Move to Detroit, 105th ACSA Annual Meeting,* Detroit, MI, 2017. Presentation.

Ng, Tsz Yan. "Projects." Tokyo Wonder Site, Institute of Contemporary Arts and International Cultural Exchange, Tokyo, JP, 2016. Artist talk.

Ng, Tsz Yan. "Concrete Labor," *Shaping New Knowledges, 104th ACSA Annual Meeting*, Seattle, WA, 2016. Presentation.

Ng, Tsz Yan, Catie Newell. "Projects." *Ph.D Colloquium*, Taubman College, University of Michigan, Ann Arbor, MI, 2016. Presentation.

Ng, Tsz Yan. "The Visibility of Labor." 9338 Campau Gallery, Hamtramck, Ml, 2015. Artist talk.

Ng, Tsz Yan. "Standard Deviations in Architecture," Wentworth Institute of Technology, Boston, MA, 2013. Public lecture.

Ng, Tsz Yan. "Recto|Verso," Fellows Exhibition, University of Michigan, Ann Arbor, MI, 2008. Presentation.

Ng, Tsz Yan. "Construction Document," State University of New York at Buffalo, 2002. Public lecture.

Ng, Tsz Yan. AAUW American Association of University Women, East Aurora-Southtowns Branch Meeting, 1998. Guest speaker.

Symposium Organization

Ng, Tsz Yan and Wes McGee. From Lab to Site: Innovation in Concrete. Taubman College, University of Michigan, Oct. 31-Nov. 1, 2019. Primary organizer devising content and overall organization. For information about the symposium, see: www.taubmancollege.umich.edu/events/2019/11/01/lab-site-innovation-concrete

Exhibitions, Solo

Ng, Tsz Yan. The Visibility of Labor. 9338 Campau Gallery, Hamtramck, MI, 2015. Installation.

Ng, Tsz Yan. Factory Setting: the space of labor, 2739 Edwin Street Gallery, Hamtramck, MI, 2013. Installation.

Exhibitions, Group

Ng, Tsz Yan. "On Air, Faculty Work 2020-2022," Liberty Research Annex, Taubman College of Architecture & Urban Planning, Ann Arbor, Ml, March 25 – September 16, 2022. Group exhibition. Includes projects with W. McGee & Victor Li (Concrete 3DP with ECC), W. McGee and SOM (SPLAM), and S. Ahlquist & Evgueni T. Filipov (Knit Concrete).

Ng, Tsz Yan, W. McGee, in collaboration with SOM: B. Jonhson, R. Culligan, K. Vansice, R. Attraya, R. Moorjani, J. Baranowski, S. Brown, and M. Mohney. "SPLAM, spatial laminated timber pavilion," Cultural Partner of *Chicago Architecture Biennial 2021, The Available City,* September 17, 2021. Partnered with Epic Academy High School, Southshore Chicago.

Ng, Tsz Yan, with Mehrdad Hadighi. "Lafayette 148 Shantou, China," in 50th Anniversary Alumni Exhibition. Hayes Hall Atrium Gallery, University of Buffalo, April 1, 2022. Group exhibition.

Ng, Tsz Yan, Wes McGee, Victor Li. "De:Molding: Concrete 3D Printing for High Performance Building Envelopes," and "Print, Tilt, Lift_Concrete 3D Printing for Precast Assemblies," in *From Lab to Site: Innovation in Concrete*. Liberty Research Annex Gallery, Taubman College, Nov 1-30, 2019. Coincides with Symposium of the same title. Installation of full-scale prototypes and videos.

He, Jinhui, He, Xiaojie Cao, Tsz Yan Ng, Wes McGee. "Precarious Stand." *ACADIA 2019*, *Ubiquity & Autonomy*, University of Texas at Austin, 2019. Project poster.

Ng, Tsz Yan. With Mehrdad Hadighi. "Twisted Concrete Codes." *Drawing Codes, Experimental Protocols of Architectural Representations, Vol. II,* Drawing. http://digitalcraft.cca.edu/research/drawing-codes Arthur A. Houghton Jr. Gallery, The Cooper Union, New York, NY, Jan. 22-Feb. 23, 2019. Drawing. Elmaleh Gallery, University of Virginia School of Architecture, Charlottesville, March 18-April 22, 2019. Korach Gallery, University of Miami School of Architecture, Miami, August 9-October 19, 2019. Gould Gallery, University of Washington College of Built Environment, Seattle, February 3-March 13, 2020. Hubbell Street Galleries, CCA (California College of Arts), San Francisco, September1-October 8, 2021.

Ng, Tsz Yan, Wes McGee, and Asa Peller. "Robotic Needle Felting." ACADIA 2018, Re/calibration: on imprecision and infidelity, Mexico City, MEX, 2018. Project poster.

Ng, Tsz Yan, Wes McGee, and Asa Peller. "Hard and Soft, Robotic Needle Felting for Nonwoven Textiles." *Research Through Making*, Liberty Research Annex Gallery, Taubman College, University of Michigan, Ann Arbor, MI, 2018. Installation of full-scale prototypes and videos

Ng, Tsz Yan and Wes McGee. "Thermoplastic Concrete Casting". ACADIA 2017 Disciplines + Disruption, MIT, Cambridge, MA, 2017. Project poster.

Ng, Tsz Yan and Wes McGee. "Thermoplastic Concrete Casting." *Research Through Making*, Liberty Research Annex, Taubman College, University of Michigan, Ann Arbor, MI, 2017. Installation of full-scale prototypes.

Goold, Ryan, Daniel Fougere, Tsz Yan Ng, and Wes McGee. "Concrete Lattice." *ACADIA 2017 Disciplines + Disruption*, MIT, Cambridge, MA. 2017. Project poster.

Ng, Tsz Yan. "StereoNegative a tribute to Tony Smith." ACADIA 2016 Projects, University of Michigan, Ann Arbor, MI, 2016. Project poster.

Ng, Tsz Yan. "Shuttling the Grid." *Un-Privileged Views Exhibition*, WUHO Gallery, Woodbury University Gallery, Los Angeles, CA, 2012. Woven photographs.

Ng, Tsz Yan. "PreView, Inscribe, Recto|Verso_Manufacturing China, and The Spratly Fatigue." Installed Exhibition, Architecture Gallery, University of Michigan, Ann Arbor, MI, 2012. Drawings and Photographs.

Ng, Tsz Yan, with Helena Kang and Justin Kollar. "StereoNegative a tribute to Tony Smith", Detroit Institute of Arts, Detroit, MI, 2012. Installation from open call competition.

Ng, Tsz Yan. "The Spratly Fatigue." *Looking Both Ways Exhibition,* Eastern Michigan University Gallery, Ypsilanti, MI, 2011. Installation, juried.

Ng, Tsz Yan, with K. Hong, K. Romberger, B. Telian, and C. Truong. "Redline." Woodbury College Gallery, WUHO, Los Angeles, CA, 2011. Installation.

Ng, Tsz Yan, Joshua Bard, and Steven Mankouche. "Digital Steam-bending." *Research Through Making,* Taubman College Gallery, University of Michigan, Ann Arbor, MI, 2010. Installation.

Ng, Tsz Yan. "Recto|Verso_Manufacturing China." *Fellows Exhibition,* Taubman College Gallery, University of Michigan, Ann Arbor, MI, 2008. Installation.

Ng, Tsz Yan and Mehrdad Hadighi. *Lafayette 148 Shantou, China.* 70 Architect(e)s on Ethics and Poetics. Centre de Design de l'UQAM, Montréal, QC, 2007. Drawings and photographs.

Ng, Tsz Yan. "Dressing Lequeu/Duchamp." *Nomadism and Urban Wandering Exhibition*, McGill University Architecture Gallery, Montréal, QC, 2004. Installation.

Ng, Tsz Yan, Torban Berns, and Dan Maxfield. "Inscribe." Hartell Gallery, Cornell University, Ithaca, NY, 2000. Installation.

Ng, Tsz Yan. "PreVIEW", Hartell Gallery, Cornell University, Ithaca, NY, 1999. Installation.

Ng, Tsz Yan. "FOLDing cross-section through the cone of vision, Text/Spaces." James Dyett Gallery, Univerity of Buffalo, Buffalo, NY, 1998. Installation.

Ng, Tsz Yan. "Elevator/Cultural Shaft." *Real/Virtual Downtown Competition Exhibition*, Van Alen Institute, New York, NY, 1997. Competition boards.

Exhibitions, Curated

Ng, Tsz Yan. *From Lab to Site: Innovations in Concrete*. Group exhibition (coincides with symposium of the same title) at Liberty Research Annex Gallery, Taubman College, November 1-30, 2019. Includes full-scale prototypes as well as videos and images of projects from seven teams. Exhibition includes a debut performance *Patty & Jan* by Brandon Clifford and Cemex Global R&D. See archive:

https://www.flickr.com/photos/taubmancollege/albums/72157711657150052

Citations by Others

Berman, Ila, Andrew Kudless. *FLUX: Architecture in a Parametric Landscape*. (Lafayette 148 project) (forthcoming, fall 2024)

Keegan, Edward. "With This Knit-Casting Process, Concrete Leans Sartorial and Minimizes Production Waste," The Game Changers Issue, Architect Magazine, October 2022. Link

Makowsky, Paul. "Tsz Yan Ng, This Michigan-based academic is using textiles to create space age forms that could transform how we build," Howl, Wolf Gordon, Issue 05, September 15, 2022. Link

Alderton, Matt. "Is Spatial Laminated Timber the Future of Sustainable Construction?" *Redshift*, June 2022. https://redshift.autodesk.com/articles/spatial-laminated-timber

News | Architecture, "Tsz Yan Ng's pavilion "SPLAM" using 2X4 materials for slabs," *Axis Web Magazine,* Japan, March 24, 2022. https://www.axismag.jp/posts/2022/03/458319.html

"Concrete, Reformed." Interview by The Architectural League of New York, March 16, 2022. Link

Hollis, Sophie Aliece. "Tsz Yan Ng blends textile methodologies with architectural production to find new ways to build," in *ArchDaily*, February 28, 2022. Link

Hollis, Sophie Aliece. "Weaving Past and Future: Tsz Yan Ng blends textile methodologies with architectural production to find new ways to build," in *The Architect's Newspaper*, February 18, 2022. Link

"A Fine Eight to Be In - Introducing The Architectural League's 2022 Emerging Voices awardees." *The Architect's Newspaper*, February 9, 2022. Link

"The Architectural League of New York Announces Winners of the 2022 Emerging Voices Award." *ArchDaily*, February 9, 2022. https://www.archdaily.com/976542/the-architectural-league-of-new-york-announces-winners-of-the-2022-emerging-voices-award

Niland, Josh. "The Architectural League of New York announces the 2022 Emerging Voices." *Archinect*, February 9, 2022. https://archinect.com/news/article/150297948/the-architectural-league-of-new-york-announces-the-2022-emerging-voices

Link, Jeff. "Mass Timber on a Diet at the Chicago Architecture Biennial." *Architect Magazine*, November 15, 2021. (review of SPLAM timber pavilion at Chicago Architecture Biennial) https://www.architectmagazine.com/technology/mass-timber-on-a-diet-at-the-chicago-architecture-biennial o

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Grants & Funded Research

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Ng, Tsz Yan. Early Tenure Track Research Support Initiative from ADVANCE, U-M. August 10, 2022, \$3000. (research development)

Ng, Tsz Yan, Brian Ellis, Evgueni T. Filipov, Kathy Velikov. "Center for Low-Carbon Building Research + Development." *Bold Challenges,* Office of Vice-Provost for Research (OVPR), University of Michigan. Spring/Summer Incubation Phase, May 13-August 8, 2022. (For LCB R+D Initiative development)

Sick, Volker, Tsz Yan Ng, Jonathan Fay, Yavuz Bozer, Mala Nani Htun. "3D Printed Carbon Negative Buildings." *Bold Challenges,* Office of Vice-Provost for Research (OVPR), University of Michigan. Spring/Summer Nurturance Phase, May 2, 2022-April 28, 2023, \$75,000. (For NSF ERC proposal development)

McGee, Wes, Tsz Yan Ng. "Functionally Graded Construction: Performance Through Continuous Material Variations." Research Catalyst and Innovation (RCI) Grant, University of Michigan Office of Research (UMOR), March 1, 2022-March 30, 2023, \$32,236.50.

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Ng, Tsz Yan, Wes McGee. "SOM Sponsored Gift." *Skidmore, Owings & Merrill LLP Gift,* November 2021, \$11,463 (for SPLAM pavilion fabrication)

Ng, Tsz Yan, Wes McGee. "Robotic Needle Felting / bridging fund." Taubman College Seed Funding. June 15, 2021-June 30, 2022, \$5,000.

Ng, Tsz Yan (lead), Peter von Bülow, Mania Aghaei Meibodi, Catie Newell, Vyta Pivo, Jose Sanchez, Geoffrey Thun, and Kathy Velikov, *Inflections*, *Gradient Journal 2021-2022*. Taubman College. Lead for online journal with ACDCC group. September 2021-August 2022, \$5,000.

Ng, Tsz Yan (lead), Arash Adel, Sean Ahlquist, Peter von Bülow, Matias del Campo, Catherine Griffiths, Wes McGee, Mania Aghaei Meibodi, Mark Meier, Catie Newell, Jonathan Rule, Jose Sanchez, Kathy Velikov, and Glenn Wilcox. "Architectural Computational Design and Construction Cluster (ACDCC)." *Get It Together*, Taubman College, University of Michigan, April 5-December 31, 2024, \$5,000.

Ng, Tsz Yan and Wes McGee. "SOM Sponsored Studio." *Skidmore, Owings & Merrill LLP Gift*, August 28, 2020-August 28, 2021, \$50,000. (for thesis studio Topology + timber, and summer collaboration for pavilion/outdoor learning space for Epic Academy in Southside Chicago, to be featured in Chicago Architecture Biennale 2021-The Available City.)

Ng, Tsz Yan, Mackenzie Bruce, Gabrielle Clune, and Jeffrey Richmond. "Rigging Videography." Spatializing Digital Pedagogies, Taubman College, University of Michigan, June1-August 31, 2020, \$7,000.

Ahlquist, Sean, Tsz Yan Ng, and Tracey Weisman. "Fully Knitted Mask for Reusability and Improved Fit and Comfort." *Seed Funding*, Taubman College, University of Michigan, April 1-May 31, 2020, \$1,500.

Ng, Tsz Yan, Sean Ahlquist, and Evgueni Filipov. "From Knit to Shell – Functionally Graded Knits for Concrete Monocoque Casting." *Small Scale Project Grant*, University of Michigan Office of Research (UMOR), January 2020-December 2023, \$15,000.

Ng, Tsz Yan and Wes McGee. "SOM Sponsored Studio." *Skidmore, Owings & Merrill LLP Gift*, August 28, 2019-August 28, 2020, \$50,000. (for thesis studio Topology +)

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Ng, Tsz Yan. "Recasting Concrete Japan." Center for Japanese Studies Faculty Research Grant, May 2019-Oct 31, 2023, \$16,500.

McGee, Wes and Tsz Yan Ng. "De:Molding: Concrete 3D Printing for High Performance Building Envelopes." *Prototyping Tomorrow*, Taubman College, University of Michigan, July 2018-August 2019, \$20,000.

Ng, Tsz Yan and Wes McGee. "Print, Tilt, Lift_Concrete 3D Printing for Precast Assemblies." *AIA Upjohn Research Initiative*, Dec. 2017-June 2021, \$20,500.

Ng, Tsz Yan, Wes McGee, and Asa Peller. "Hard + Soft, Robotic Needle Felting for Nonwoven Textiles." *Research-Through-Making Grant*, Taubman College, University of Michigan, May 2017-March 2018, \$20,000.

Ng, Tsz Yan and Wes McGee. "Thermoplastic Concrete Casting." *Small Scale Project Grant*, University of Michigan Office of Research (UMOR), May 2016-April 2018, \$14,700.

Ng, Tsz Yan and Wes McGee. "Thermoplastic Concrete Casting." *Research-Through-Making Grant*, Taubman College, University of Michigan, May 2016-March 2017, \$20,000.

Ng, Tsz Yan and Joan Kee. "Public Domesticity – architecture, art, and urban design." *Michigan Mellon Project on Egalitarianism and the Metropolis*, University of Michigan, Sept. 2016-April 2017, \$15,000. (Interdisciplinary course development)

Ng, Tsz Yan and David Chung. "On the Drawing Board-Art and Architecture Collaboration in Detroit." *Quick Wins/Discovery Grant*, Transforming Learning for the Third Century, University of Michigan, Sept. 2015-Dec 2017, \$25,000. (Interdisciplinary grant for *Assemble* (UK) to give public lecture and conduct 2-wk workshop with students.)

Ng, Tsz Yan. "The Visibility of Labor." Artistic Production Grant, University of Michigan Office of Research (UMOR), June 2015-Jan. 2016, \$14,000.

Ng, Tsz Yan. "Twisted." *Book Subvention Grant*, University of Michigan Office of Research (UMOR), 2015-2016, \$10,000.

Ng, Tsz Yan. On-going work support, Art Matters Foundation Production Grant, Jan-Dec. 2014, \$3,000.

Ng, Tsz Yan. "Factory Setting: the Space of Labor." *Project Seed Fund*, Taubman College, University of Michigan, 2013, \$3,000.

Ng, Tsz Yan. "StereoNegative_a tribute to Tony Smith." *Project Seed Fund*, Taubman College, University of Michigan, 2013, \$7,780.

Ng, Tsz Yan and Cynthia Pachikara. "Borrowing Light." *The Gilbert Whitaker Fund Grant,* phase II, Center for Research on Learning and Teaching (CRLT), University of Michigan, 2012-2014, \$15,000.

Ng, Tsz Yan. "Aesthetics of Universal Expositions." *Lecturers' Professional Development Grant*, Center for Research on Learning and Teaching (CRLT), University of Michigan, 2012, \$2,000.

Ng, Tsz Yan. "Redline." *Lecturers' Development Grant*, Lecturers' Employee Organization (LEO), University of Michigan, March 2010-April 2011, \$550.

Ng, Tsz Yan. "Sartorial Architecture." *Lecturers' Professional Development Grant,* Center for Research on Learning and Teaching (CRLT), University of Michigan, Jan.–Dec. 2011, \$2,000.

Ng, Tsz Yan and Cynthia Pachikara. "Borrowing Light." *The Gilbert Whitaker Fund Grant* from CRLT (Center for Research on Learning and Teaching), University of Michigan, Jan. 2010-Sept. 2011, \$10,000. (Interdisciplinary course development grant for *Borrowing Light*, with Cynthia Pachikara,)

Ng, Tsz Yan, Josh Bard, and Steven Makouche. "Digital Steam-bending." *Research-Through-Making Grant*, Taubman College, University of Michigan, May 2009-March 2010, \$20,000.

Ng, Tsz Yan. "1867 Universal Exposition." *CCA Collection Research Grants* - TD Financial Bank Group, Canadian Centre for Architecture, Montréal, Dissertation Research Grant, 2006, \$4,000.

Ng, Tsz Yan, Torben Berns, and Dan Maxfield. "Inscribe." *CCA Grant.* Cornell Council for the Arts. Cornell University, 2000, \$1,600.

Design Projects

Ng, Tsz Yan, W. McGee, in collaboration with Skidmore Owings Merrill: B. Jonhson, R. Culligan, K. Vansice, R. Attraya, R. Moorjani, J. Baranowski, S. Brown, and M. Mohney. *SPLAM, spatial laminated timber pavilion/outdoor classroom*, part of Chicago Architecture Biennial 2021 Exhibition, The Available City. Community partner: Epic Academy High School, Southshore Chicago, 2021. (Scope: project design and development, engineering tests, digital fabrication, community engagement, public cultural programming at Biennial opening.)

Ng, Tsz Yan, principal designer. *Amplified Nature-Sound Mirrors in the Garden,* International Garden Festival Competition 2019, Redford Gardens. (unbuilt)

Ng, Tsz Yan, principal designer. *Bubble Seat/Landscape*. Folly Competition 2018, The Architectural League and Socrates Park, Queens, NY, 2018. (unbuilt)

Ng, Tsz Yan and Mehrdad Hadighi, design consultant. *Lafayette 148 New York Showroom/Sales Offices.* New York, NY, 2013. (unbuilt)

Ng, Tsz Yan, principal designer. Soft Boundaries. Flat Lot Competition, Flint, MI, 2013. (unbuilt)

Ng, Tsz Yan and Mehrdad Hadighi, design consultant. *Lafayette 148 Retail Shops*. Saks Fifth Avenue Chevy Chase, MD, 2013; Saks Fifth Avenue Houston, TX, 2012; Sogo Shanghai, 2012; Saks Fifth Avenue Atlanta, GA, 2012; Bloomingdales, New York, NY, 2011; Saks Fifth Avenue, New York, NY (entry only), 20111. (Scope: retail shop design and development.)

Ng, Tsz Yan and Mehrdad Hadighi, principal designers. *Lafayette 148.* Shantou, Guangdong Province, China, 2004-2010. (Private commission, 11-story building with 70% textile manufacturing, 20% offices, 5% showroom, 5% services, total gross floor area: 226,257 sf. Oversea Managing firm, The Shantou Building Consortium. Scope: space planning, architectural design and development, complete construction documents.)

Ng, Tsz Yan, Josh Bard, and Steven Mankouche. *Steam-bent Beach Hut*. Boscombe Beach Hut Competition, Bournemouth Seafront, UK, 2009 (unbuilt)

Ng, Tsz Yan, design associate. *Tall Acres-Glass*. Mehrdad Hadighi of Studio for Architecture, Pittsford, NY, 2006. (80 sf bathroom renovation, scope: schematic design)

Ng, Tsz Yan, graphic design. *Roving Pictures: snapshots,* edited by Mehrdad Hadighi, Monograph of installation and essays on *"Roving Pictures: Speculative Documentation of a Metalworks Factory, Osaka, Japan."* Installation by Torben Berns and John Zissovici, Burchfield-Penny Art Center, Buffalo, NY, 2003.

Ng, Tsz Yan, design associate. *Hauser Residence*. Nasser Ahari of Ahari & Associates, 247 Central Park West. New York, NY, 2000. (Complete gut renovation of landmarked row house, 7.5-story residence, scope: design development, complete construction documents, construction administration)

Ng, Tsz Yan. *Elevator/Cultural Shaft*. Competition entry for the Paris Prize in Public Architecture, Van Alen Institute, NY, 1997. (unbuilt)

Ng, Tsz Yan, Anthony Dong, Mehrdad Hadighi, Isreal Lowry, and Aspassia Papazaharia. *SKA-FOLD*. Competition entry for the Greenport Waterfront Competition. Greenport, Long Island, NY, 1996. (unbuilt)

Courses Taught

University of Michigan, Ann Arbor, MI

ARCH 537: Graduate Fabrication Course, (Coordinator), Fall 2022

ARCH 662: Thesis Studio, *Concrete Labor-performative façade systems*, Winter 2022. (linked with ARCH 571, Advanced Digital Fabrication Seminar, Wes McGee)

ARCH 509: Elective Seminar, Sartorial Architecture, Winter 2022

ARCH 537: Graduate Fabrication Course, (Coordinator), Fall, 2021

ARCH 660: Thesis Research + Development Seminar, Concrete Labor-performative façade systems, Fall, 2021

- ARCH 662: Thesis Studio, *Topology* +, Winter 2021. (linked with ARCH 509, Advanced Robotics Seminar, Wes McGee) (SOM Sponsored Studio)
- ARCH 537: Graduate Fabrication Course, (Coordinator), Winter, 2021
- ARCH 660: Thesis Research + Development Seminar, Topology + timber, Fall, 2020 (SOM Sponsored Studio)
- ARCH 509: Elective Seminar, Sartorial Architecture, Fall 2020
- ARCH 662: Thesis Studio, *Topology* +, Winter 2020. (linked with ARCH 571 Advance Digital Fabrication, Wes McGee) (SOM Sponsored Studio)
- ARCH 660: Thesis Research + Development Seminar, Topology +, Fall, 2019 (SOM Sponsored Studio)
- ARCH 662: Thesis Studio, *Concrete Labor*, Winter 2019. (linked with ARCH 571 Advance Digital Fabrication, Wes McGee)
- ARCH 509: Elective Seminar, Sartorial Architecture, Winter 2019.
- ARCH 660: Thesis Research + Development Seminar, Concrete Labor, Fall 2018.
- ARCH 552: Institutions Studio, Accessing Dearborn, Fall, 2018.
- ARCH 662: Thesis Studio, Collectives, Winter 2018.
- ARCH 660: Thesis Research + Development Seminar, Collectives, Fall 2017.
- ARCH 509: Elective Seminar, Sartorial Architecture, Fall 2017.
- ARCH 700: MS DT + MS Practicum, Summer 2017.
- ARCH 662: Thesis Studio, *Public Domesticity_art, architecture, + urban design,* Winter 2017. (linked with ARCH 571 Advance Digital Fabrication, Wes McGee)
- ARCH 660 cross-listed with HISTART 689: Thesis Research + Development Seminar, *Public Domesticity_art, architecture, + urban design,* Fall 2016. (Co-taught with Joan Kee from Dept. of Art History.)
- ARCH 552: Institutions Studio, In the Middle, Fall 2016.
- ARCH 409/506: Spring Travel, Concrete Japan, Spring 2016.
- ARCH 662: Thesis Studio, *Concrete Labor*, Winter 2016. (linked with ARCH 571 Advance Digital Fabrication, Wes McGee)
- ARCH 660: Thesis Research + Development Seminar, *Concrete Labor*, Fall 2015.
- ARCH 509: Elective Seminar, Sartorial Architecture, Fall 2015.
- ARCH 322: Design II Studio (UG2), Winter 2015.
- ARCH 326: Design Fundamental II, Winter 2015.
- ARCH 312: Design I Studio (UG1), Fall 2014.
- ARCH 218: Visual Studies, Fall 2014.
- ARCH 562: Systems Studio, Migrant Workers Housing in China, Winter 2014.
- ARCH 326: Design Fundamental II, Winter 2014.
- ARCH 412: Design I Studio, Form, Influence, Fall 2013.
- ARCH 218: Visual Studies, Fall 2013.
- ARCH 322: Design II Studio (UG2), 2X2 Inhabitation, Winter 2013. ARCH 326: Design Fundamental II, Winter 2013. ARCH 218: Visual Studies, Fall 2012. ARCH 302: Design Studio (UG0), Summer 2012.
- ARCH 322: Design II Studio (UG2), *For Architecture, Five Projects,* Winter 2012. ARCH 509: Elective Seminar, *Aesthetic of Universal Expositions,* Winter 2012. ARCH 432: Design III Studio (UG3), *Hackerspace,* Fall 2011. ARCH 516: Representation, *Assembling: Horizontal Surface,* Fall 2011.
- ARCH 322: Design II Studio (UG2), *Woodward Avenue and the 21st C.* Library, Winter 2011. ARCH 509: Elective Seminar, *Sartorial Architecture*, Winter 2011. ARCH 432: Design III Studio (UG3), *Within Reach – A Center for Culinary Exchange*, Fall 2010. ARCH 516: Representation, *Assembling: Free-standing Arch, Fall* 2010.
- ARCH 409/509, cross-listed with ARTDES 300: Experimental Course, *Borrowing Light*, Winter 2010. ARCH 516: Representation, *Assembling: Screen Divider*, Fall 2009.

ARCH 442: Design IV Studio, *Territorializing a New State of Exception – Guantánamo Bay Detention Center/Military Complex*, Winter 2009.

ARCH 326: Design Fundamental II, Winter 2009.

UARTS 250: Creative Process, Interdisciplinary undergraduate non-major course, Winter 2009.

ARCH 412: Design I Studio, *Building Sites*, Fall 2008.

ARCH 516: Representation, Moving in + out of the Picture Plane, Fall 2008.

ARCH 442: Design IV Studio (UG4), *The Future of the Dead*, Winter 2008. ARCH 432: Design III Studio (UG3), *Métis 2*, Fall 2007. ARCH 317: Construction I, Fall 2007.

McGill University, Montréal, QC

Graduate Design Studio, *CurioCity*, Winter + Summer, 2006.

Graduate History Elective, Design component, Constructing Myths_Architectural Intentions from Vitruvius to the Renaissance, Fall 2004.

State University of New York at Buffalo, NY

Undergraduate Design Studio, *Crematorium*, Winter 2003. Undergraduate Design Studio, *Spheres*, Fall 2002. Architectural Communications, Fall 2002.

Undergraduate Design Studio, *Mind's Eye*, Winter 2002. Graduate Seminar, *Translations*, Winter 2002. Undergraduate Design Studio, *Sectioning Precedents*, Fall 2001.

Undergraduate Design Studio, *Cutting Sections*, Winter 1998. 'Teaching Assistant, responsibilities include teaching as instructor

Undergraduate Design Studio, Site/Sight, Fall 1997. Teaching Assistant, responsibilities include teaching as instructor

3rd-yr Design Studio (teaching assistant), Winter 1997.

Architectural Communications (teaching assistant), Fall 1996.

Cornell University, Ithaca, NY

Japan Summer Abroad Program, undergraduate and graduates, Spring, 2001, Teaching Assistant 1st-year Design Studio, Winter 2001. Teaching Assistant, responsibilities include teaching as instructor 1st-year Design Studio, *Loft-space, Dualities, Membranes*, Fall 2000. Teaching Assistant, responsibilities include teaching as instructor

Invited Lectures for a Course

Ng, Tsz Yan. "Robotic Needle Felting." Woodbury School of Design, Second-year design studio, Instructor: Heather Peterson, Fall 2020.

Ng, Tsz Yan. "Thermoplastic Concrete Casting + Robotic Needle Felting." USC, *Informed Form* seminar, Instructor: Alvin Huang, Winter 2019.

Ng, Tsz Yan. "Projects." *Discourses in Design*, The New School, Parsons School of Design, School of Art and Design History and Theory, New York, NY, instructor: Caroline Dionne, Fall 2017.

Ng, Tsz Yan. "Projects." *Crossing Lines,* interdisciplinary seminar, Taubman College, instructor: Anya Sirota, Winter 2017.

Ng, Tsz Yan "StereoNegative_a tribute to Tony Smith." SCALE, Department of Art History/Art+Design, University of Michigan, instructors: Joan Kee + Lillian Cox, Fall 2012.

Invited Reviews

4th-yr Comprehensive Studio, University of Texas Austin, Fall 2022 3th-yr Undergraduate Design Studio, Texas Tech School of Architecture, El Paso, Fall 2022 M.Arch + 4th yr Undergraduate Comprehensive Studio, Rice University, School of Architecture, Fall 2021 Elemental Building Functions Seminar, Princeton University, Fall 2021 5th-yr Undergraduate Structure Design Studio, University of Pennsylvania, Weitzman School, Winter, 2021 5th-yr Undergraduate Design Studio, University of Iowa, Winter 2021 2nd + 3rd-yr Undergraduate Design Studio, Texas Tech University, Fall 2020 4th-yr Undergraduate Interdisciplinary Research Studio, Penn State University, Fall 2020 2rd-yr Undergraduate Design Studio, Woodbury School of Design, Fall 2020 2-yr Undergraduate Integrative Design Studio, Cornell University, Winter 2020. Undergraduate & graduate thesis, Woodbury School of Design, Winter 2020. 3D Design Department, Cranbrook Academy of Art, Fall 2019. 2-yr Undergraduate Integrative Design Studio, Cornell University, Winter 2019. 1-yr Graduate Design Studio, Arizona State University, Fall 2018. Graduate Thesis Review, Pennsylvania State University, Fall 2017. 4th-yr Undergraduate Studio, 2nd-y grad, University of Texas at Arlington, Winter 2017. 3rd-y Undergraduate Studio, Lawrence Technical University, Detroit, Winter 2016. 3rd-yr Design Studio, CalPoly, Winter 2009. 3rd-yr Undergraduate Design Studio, Graduate Design Studio, Thesis, SUNY at Buffalo, Winter 2007. 4th-yr Design Studio, University of Montréal, Fall 2006. Ph.D. Theory Seminar, paper presentation, McGill University, Winter 2005. 3rd-vr Design Studio, Pennsylvania State University, Winter 2003. 3rd-yr Design Studio, Carleton University, Fall 2003. 2nd-yr Design Studio, University of Michigan, Fall 2003. 1st-yr Design Studio, Cornell University, Winter 2003. 3rd-yr Design Studio, Pennsylvania State University, Winter 2002. Thesis Review, Cornell University, Winter 2001. 2nd-yr Design Studio, Thesis Review, SUNY at Buffalo, Winter 2001. 2nd-vr Design Studio, SUNY at Buffalo, Fall 2000, Graduate Design Studio, SUNY at Buffalo, Fall 1998.

Recognition/Citations of Student Work

Li, Qian, Kamon Nurtnuramit. "Growing Buttresses," Taubman College, M. Arch. Thesis Honors Awards, Honorable Mention, 2022.

Cochrane, Maggie and Mackenzie Bruce. "Sinuous Steel: Auxetic Possibilities," Taubman College, Architecture Student Research Grants, 2019. Faculty Advisor.

Lahr, Lauren. "Re-imagining Suburban Wasteland." *Dimensions 32,* Taubman College of Architecture + Urban Planning, 2019, pp. 92-99.

Anstreicher, Sophie, Scott Chriss, Alexandre Comas, and Troy Huckendubler. "Line|Weight." *Dimensions 31*, Taubman College of Architecture + Urban Planning, 2018, pp. 57-64.

Goold, Ryan and Dan Fougere. "Concrete Lattice." *Dimensions 30*, Taubman College of Architecture + Urban Planning, 2017, pp. 20-27.

Schaafsma, Tyler (graduate). AIA Huron Valley Awards, Taubman College, 2017.

Rosenberg, Kevin (graduate). Alumni Board of Governors Award, Taubman College, 2014.

Salvatore, Geoffrey and Harold-Sprague Solie. "Stalactites." SuckerPUNCH, Representation course, 2013.

Kollar, Justin (undergraduate). Alumni Board of Governors Award. Taubman College, 2011.

Wiersma, Natalie (graduate). Alumni Board of Governors Award. Taubman College, 2009.

Lynch, Eva (undergraduate). Wallenberg studio competition awards, honorable mention, 2009.

Mathieu, Alexandria (undergraduate). AlA Chapter Award and Alumni Board of Governors Award, Taubman College, 2008.

Galimberti, Jamie (undergraduate). Wallenberg studio competition awards, 2008.

Caion-Demaestri, Leo (undergraduate). Wallenberg studio competition awards, 2008.

Affiliations

ACADIA/IJAC Editorial Board, January 2023-December 2025, member ACADIA Board of Directors, January 2019 – December 2022, member since 2016 Center for Low-Carbon Built Environment, University of Michigan, member since 2019 Center for Japanese Studies, University of Michigan, affiliate member since 2019 Another Possible Imaginary, antiracism Asian community organization, member since 2020.

Service

Board Member

ACADIA/IJAC, Association of Computer-Aided Design in Architecture, International Journal for Architectural Computation. (Elected term 2023-25)

ACADIA, Association of Computer-Aided Design in Architecture. 2019-2022. (2 elected terms)

- 2022: Secretary Officer, Chair for Scientific Committee, Diversity Committee
- 2021: Secretary Officer, Chair for Scientific Committee, Diversity Committee, Outreach Committee, Ph.D. Workshop Review Committee, NOMAS competition Jury
- 2020: Chair for Scientific Committee, Elections Committee, Diversity Committee, NOMAS competition Jury
- 2019: Scientific Committee 2019, Elections Committee 2019, Emerging Research Awards Committee 2019

Peer Review Committees, Panel Moderator, Jury

Juror, Habitat For Humanity International Design Competition. March 2023. Category, Innovation. (3 finalists)

Peer review 2022: ACADIA (4 papers), ACADIA/World CAAD Ph.D Workshop submissions (6 proposals)

Panel moderator, session Advanced Production Methods II: Knitted Architecture, ACADIA 2022, Hybrids & Hacceities, University of Pennsylvania, October 26, 2022.

Juror, The National Ready Mixed Concrete Association (NRMCA) & ACSA, 2022 Habitat Design Competition – Climate Positive Concrete Housing (146 submissions) Link

Moderator, with Catie Newell and Kathy Velikov for the public lecture event *Material Responsibility*, speakers: Mollie Claypool, Dana Cupkova, and Achim Menges, September 21, 2021.

Peer reviewer 2021: Journal of Architectural Education JAE (full paper), ARCC (5 abstracts + 1 paper), ACSA (5 abstracts), ACADIA (2 papers, 1 projects), ACADIA Ph.D. & CAAD Ph.D. workshop (15 proposals)

Juror, ACADIA/NOMA competition 2021 (21 teams)

Panel moderator, session Biological Interactions + Ecological Adaptation, ACADIA 2020, Distributed Proximity

Juror, ACADIA/NOMAS/AutoDesk Awards, ACADIA 2020, Distributed Proximity.

Peer reviewer 2020: Construction Robotics (paper), ARCC (abstracts, full papers), ACADIA (papers, projects, video jury), Graham Sustainability Institute, University of Michigan (grant reviewer)

Panel moderator, morning session for *From Lab to Site: Innovation in Concrete Symposium*. Taubman College, Nov. 1, 2019, Ann Arbor, MI.

Juror, ACADIA Conference Awards for papers, projects, and AutoDesk Emerging Researcher Award, ACADIA 2019, Ubiquity and Autonomy, 2019, Austin, Texas.

Panel moderator, session Formworks, ACADIA 2019, Ubiquity and Autonomy, 2019, Austin, Texas.

Peer reviewer 2019: ACADIA 2019 Ubiquity and Autonomy

Peer reviewer 2018: Interiors Journal (paper), CAADRIA 2018 (papers), ACADIA 2018 Re/calibration: on Imprecision and Infidelity (papers, projects)

Peer reviewer 2017: ACSA 2017 Fall Conference, Between the Proximate and Remote, TxA 2017, Emerging Design + Technology, Texas Society of Architects, ACADIA 2017, Disciplines + Disruption

Peer reviewer 2016: ACADIA 2016, Posthuman Frontiers, 104th ACSA Annual Meeting, Shaping New Knowledges, session: Acting Out: The Politics and Practices of Interventions

Peer reviewer 2011: JAE, Journal of Architectural Education. Beyond Precedents, v. 64, no. 2

Peer reviewer 2010: 98th ACSA Annual Meeting, Re.Building, Session: Is Architecture Critical?

Juror. 3rd-yr design studio "Best in Show." CalPoly, 2009.

Panel moderator. ACSA Conference, Reconciling Poetics and Ethics in Architecture, session: Uses of Fiction in Pedagogy, 2007.

Peer Review Committee. ACSA Conference, Reconciling Poetics and Ethics in Architecture, 2006.

College Level Committees

Member. Equity in Salary Compensation Task Force, Fall 2022

Member. Research Policy Committee, 2021-22

Member. *Equity in Architectural Education Consortium.* Lead on fabrication/design/teaching workshop. Taubman College, University of Michigan, 2019-20.

Member. Diversity, Equity, & Inclusion Committee. Taubman College, University of Michigan, 2017-2019.

Member. Lectures & Exhibitions Committee. Taubman College, University of Michigan, 2018-2019.

Program Level Committees

Editor, with Jono Sturt, Gradient Journal, Feed #2, *Inflections,* Taubman College of Architecture & Urban Planning, 2021-2022.

Member. *Freshmen Admissions Committee*, Taubman College of Architecture & Urban Planning, 2018, 2019, 2022

Member. Fellowship Committee, Taubman College of Architecture + Urban Planning, 2017-18, 2018-19.

Member. *Scholarship Committee*, Taubman College, University of Michigan, Booth Travel Fellowship (program), Dow Sustainable Fellowships (college), Willike Porfolio Jury (program), 2016-2017.

Member. Undergraduate Transfer Admissions Committee, Taubman College of Architecture + Urban Planning, 2015, 2016, 2017, 2020, 2021, 2022

Member. Lecturer Review Committee, Taubman College, University of Michigan, 2015-2016.

Member. Undergraduate Freshmen Admissions Committee, Taubman College of Architecture + Urban Planning, 2014.

Member. Academic Review Committee, Taubman College, University of Michigan, 2012-2013

University Level Service

Grant Reviewer, Graham Sustainability Institute, University of Michigan, 2020 Grant reviewer.

International Institute Fellowships, University of Michigan, 2017, Fellowship reviewer.