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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  
*Assistant Professor*, 2015-present  
*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. *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." *2<sup>nd</sup> 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. "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. "Development of 3D-Printable ECC using Limestone Calcined Clay Cement." *Advances in Rheology and Additive Manufacturing in Construction*, Ed. Kamal H. Khayat, Shiho Kawashima. Journal of the American Concrete Institute. (accepted)

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, <http://doi.org/10.1016/j.cemconres.2020.106038>

Ng, Tsz Yan. "Labor Visible and Invisible." *Interiors*, Volume 9, no. 1, March 2018, 42-59.

### 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://www.jaeonline.work/tag/work), <http://doi.org/10.1080/10464883.2019.1667718>

### Professional Journal Articles (Non-peer reviewed)

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 Aspasia 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, S. Ahlquist, E. T. Filipov, T. Weisman. "Active-Casting\_Functionally Graded Knits for Volumetric Concrete Casting." *ACADIA 2020, Distributed Proximity*, 2020. (accepted)

Bruce, Mackenzie, Gabrielle Clune, R. Culligan, K. Vansice, R. Attraya, W. McGee, T. Ng. "Form[less]: Robotically Thermoformed Molds for Concrete Casting." *ACADIA 2020, Distributed Proximity*, 2020. (accepted)

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*. DC 2020. RILEM Bookseries, vol 28. Springer, Cham, 916-925. [https://doi.org/10.1007/978-3-030-49916-7\\_89](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. (project proceedings) 2019, 68-73.

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.

Wes McGee, Ng, Tsz Yan, and Asa Peller. "Hard + Soft, Robotic Needle Felting for Nonwoven Textiles." *ROBJARCH 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.

Ng, Tsz Yan and Wes McGee. "Public Domesticity." *ACSA 2018 International, New Instrumentalities*, Madrid, ES, 2018.

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](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.

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

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 105<sup>th</sup> 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 104<sup>th</sup> 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.

Ng, Tsz Yan, Jonathan W. McGee, and Victor C. Li. Additive Manufacturing of Engineered Cementitious Composites. 2020-168. *Provisional Patent Disclosure*. US, issued 2019.

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. *Peter Reyner Banham Fellowship – 20<sup>th</sup> Anniversary Symposium*, State University of New York at Buffalo, March 6, 2021.

Ng, Tsz Yan. Arizona AIA 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 Volumetric 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](http://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, 105<sup>th</sup> 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, 104<sup>th</sup> 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, MI, 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](http://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, with Mehrdad Hadighi. "Lafayette 148 Shantou, China," in *50<sup>th</sup> Anniversary Alumni Exhibition*. Hayes Hall Atrium Gallery, University of Buffalo, April 1, 2020. Group exhibition. \*Canceled due to Covid-19

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. [www.variableprojects.com/drawing-codes](http://www.variableprojects.com/drawing-codes)  
Arthur A. Houghton Jr. Gallery, The Cooper Union, New York, NY, Jan. 22-Feb. 23, 2019. Drawing.  
University of Virginia School of Architecture, Charlottesville, March 18-April 22, 2019.  
University of Miami School of Architecture, August 19-October 9, 2019.  
University of Washington in Seattle, February 3-March 13, 2020.  
CCA (California College of Arts), March 30-April 17, 2020.

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, University 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**

Roddier, Mireille. "TECTONIC TILES: Research Through Making Experiments Towards a Critical Contemporaneity." *Gradient*, 2021 (on Robotic Felting) <https://gradient-journal.net/articles/tectonic-tiles-research-through-making-experiments-towards-a-critical-contemporaneity>

Wilson, Riley, "Researchers share innovative ideas in concrete for a more sustainable future." Civil and Environmental Engineering, University of Michigan. November 18, 2019. On-line: <https://cee.engin.umich.edu/stories/researchers-share-innovative-ideas-in-concrete-for-a-more-sustainable-future/>

"New Robotic Needling Process Enables Additive Manufacturing With Wool." *Fabbaloo*, October 17, 2019. On-line: <http://www.fabbaloo.com/blog/2019/10/17/new-robotic-needling-process-enables-additive-manufacturing-with-wool>

Zotomayor, Carlos. "New Robotic Needling Process Enables Additive Manufacturing With Wool." *SolidSmack*, October 9, 2019. On-line: <http://www.solidsmack.com/fabrication/new-robotic-needling-process-enables-additive-manufacturing-with-wool/>

Aldeghi, Greta. "Uni students create 3D felt sculptures with a robotic arm." *Design Wanted*, October 1, 2019. On-line: <http://www.designwanted.com/tech/uni-students-3d-felt/> (on project Robotic Needle Felting)

Robinson, Dan. "An innovative approach to 3D felt manufacturing has been developed." *Bimstore*. September 23, 2019. On-line: <http://www.bimstore.co/resources/3d-felt/> (on project Robotic Needle Felting)

Ekanayake, Ashini K. "3D Printing Meets Felt." *Adidesign*, September 16, 2019. On-line: <http://adidesigns.asia/blog/2019/9/16/3d-printing-meets-felt>

Aouf, Rima Sabina. "3D printing meets felt in new additive manufacturing technique." *Dezeen*, September 12, 2019. On-line: <https://www.dezeen.com/2019/09/12/robotic-needle-felting-taubman-college-design/>. (on project Robotic Needle Felting)

Kolb, Jaffer. "Drawing Codes ironically gets the rules all wrong." *The Architects Newspaper*, February 22, 2019. On line: <https://archpaper.com/2019/02/drawing-codes-cooper-union-review/> (on project Twisted Concrete Codes)

"ACSA Announces 2019 Architectural Education Award Winners," *Architect*, February 8, 2019. On line: [https://www.architectmagazine.com/awards/acsa-announces-2019-architectural-education-award-winners\\_o](https://www.architectmagazine.com/awards/acsa-announces-2019-architectural-education-award-winners_o) (Faculty Design Award Honorable Mentions for project Robotic Needle Felting)

Keane, Katharine. "This Week in Tech." *Architect Magazine*, July 27, 2018. On-line: [https://www.architectmagazine.com/technology/this-week-in-tech-the-worlds-50-smartest-cities-in-2018\\_o](https://www.architectmagazine.com/technology/this-week-in-tech-the-worlds-50-smartest-cities-in-2018_o) (on project Robotic Needle Felting)

Risen, Clay and Wanda Lau, editor. "R+D Awards, Robotic Needle Felting." *Architect Magazine*, v. 107, no. 8, July 2018, pp. 116-117. On-line version: [http://www.architectmagazine.com/awards/r-d-awards/citation-robotic-needle-felting-stitches-new-possibilities\\_o](http://www.architectmagazine.com/awards/r-d-awards/citation-robotic-needle-felting-stitches-new-possibilities_o) (on project Robotic Needle Felting)

Rappaport, Nina. "Lafayette 148, Shantou, China." In *Vertical Urban Factory*, Actar Publishing, 2016, pp. 366-368. Book.

"Best of 2015: Our Top 10 Exhibitions Across the United States." *Hyperallergic*, December 16, 2015, <http://hyperallergic.com/262144/best-of-2015-our-top-10-exhibitions-across-the-united-states/> (on project The Visibility of Labor.)

Sharp, Sarah R. "The 17 Pairs of Hands That Spun a Little Black Dress into Existence." *Hyperallergic*, (November 10, 2015): <http://hyperallergic.com/252420/the-17-pairs-of-hands-that-spun-a-little-black-dress-into-existence/> (on project *The Visibility of Labor.*)

Wasacz, Walter. "Walking fast and slow." *The Review*, November 13, 2015, pp. 1, 4. (on project *The Visibility of Labor.*)

Van Uffelen, Chris, editor. "Lafayette 148 New York, Shantou, China." *Concrete: Pure. Strong. Surprising*. Berlin: Braun Publishing, 2015, pp. 26-29. Book.

Tai, Cedric. "The Three Best Exhibitions of 2013 took place in Artist-run spaces." *Infinite Mile*, April 2014, [http://infinitemiledetroit.com/The\\_three\\_best\\_exhibitions\\_of\\_2013\\_took\\_place\\_in\\_artist-run\\_spaces.html](http://infinitemiledetroit.com/The_three_best_exhibitions_of_2013_took_place_in_artist-run_spaces.html) (on project Factory Setting, the space of labor).

Sharp, Sarah R. "One's labor's end for Tsz Yan Ng and new work to come at 2739 Edwin Gallery." Knight Arts, September 10, 2013, <http://www.knightarts.org/community/detroit/one-labors-end-for-tsz-yan-ng-and-new-work-to-come-at-2739-edwin-gallery>.



Sharp, Sarah R. "Factory Setting: the space of labor' is in powerful progression at 2739 Edwin." Knight Arts, August 30, 2013, <http://www.knightarts.org/community/detroit/factory-setting-the-space-of-labor-is-in-powerful-progression-at-2739-edwin>.

Sharp, Sarah R. "With 'Factory Setting,' textile manufacturing looms large at 2739 Edwin." Knight Arts, August 13, 2013, <http://www.knightarts.org/community/detroit/with-factory-setting-textile-manufacturing-loom-large-at-2739-edwin>.

Campbell-Dollaghan, Kelsey. "A Modern Chinese Factory Made Using Local, Traditional Building Techniques." *CoDESIGN*, February 15, 2013, [www.fastcodesign.com/1671851/a-modern-chinese-factory-made-using-local-traditional-building-techniques#1](http://www.fastcodesign.com/1671851/a-modern-chinese-factory-made-using-local-traditional-building-techniques#1) (on project Lafayette 148).

Seda Gul, "The Movement of Light Coming from the façade," *TASIRIM*, Volume 223, July/August 2012, p 50-51 (on project Lafayette 148).

Balzer, David. "New Lights Fest & Last Mike Kelley Work Lure Art-Lovers Across the Border to Detroit." *CanadianArt*, October 10, 2012, [www.canadianart.ca/features/2012/10/10/detroit-dlectricity-mike-kelley/](http://www.canadianart.ca/features/2012/10/10/detroit-dlectricity-mike-kelley/) (on project StereoNegative).

Blitchok, Dustin. "Midtown Detroit lights up with DLECTRICITY art festival." *The Oakland Press*, October 3, 2012, [www.theoaklandpress.com/articles/2012/10/03/news/local\\_news/doc506cbc4c119b7155468306.txt](http://www.theoaklandpress.com/articles/2012/10/03/news/local_news/doc506cbc4c119b7155468306.txt) (on project StereoNegative).

Wasacz, Walter. "Neighborhood Lights: Organizers talk about Midtown's DLECTRICITY." *Model D*, October 2, 2012, [www.modeldmedia.com/features/dlectricity/1012.aspx](http://www.modeldmedia.com/features/dlectricity/1012.aspx) (on project StereoNegative).

"DLECTRICITY, Detroit's first 'Nuit Blanche.'" Event happening concurrent to the New York and Paris "Nuit Blanche" festivals," *art agenda*, October 2, 2012, [www.art-agenda.com/shows/dlectricity-debuts-in-detroit/](http://www.art-agenda.com/shows/dlectricity-debuts-in-detroit/) (on project StereoNegative).

"Problem Solving through Problem Seeking." interview with Mehrdad Hadighin, *HAMSHAHRI*, v. 19, August 2012, pp. 60-71 (on project Lafayette 148).

"Best of the Year." *Domus Web*, December 31, 2012, <http://www.domusweb.it/en/news/2012/12/31/best-of-2012-architecture.html> (on project Lafayette 148).

"Best of the Week." *Domus Web*, May 13, 2012, <http://www.domusweb.it/en/news/2012/05/13/best-of-the-week.html> (on project Lafayette 148).

Neveu, Marc J. "Concrete Twist." *Domus 958*, May, 2012, and *Domus Web*, May 10, 2012, <http://www.domusweb.it/en/architecture/2012/05/10/concrete-twist.html>.

Tylevich, Katya. "Research Through Making." *Domus Web*, April 2, 2012, <http://www.domusweb.it/en/interview/research-through-making/> (interview with Monica Ponce de Leon on Research Through Making Grant Initiative, on project Digital Steam Bending).

Tylevich, Katya. "Un-Privileged Views." *Domus Web*, March 16, 2012, <http://www.domusweb.it/en/architecture/un-privileged-views/> (on project Shuttling the Grid).

Adrian. Welch, editor. "A Few High Notes from 2010." *E-Architecture Newsletter* 86, January 4, 2011, <http://www.swiftpage8.com/SpeClicks.aspx?X=300U5LVEHZSJLBQ80VOYWL> (on project Lafayette 148).

Yuan, Jing. "The Architecture of Fashion." *Numéro* 3, China edition, November 2010, pp. 192-197, English translation, XII-XIV. (on project Lafayette 148).

Isabelle, Lomholt, editor. "Lafayette 148." *e-architect*, newsletter 79, November 9, 2010, [http://www.e-architect.co.uk/china/lafayette\\_148\\_shantou.htm](http://www.e-architect.co.uk/china/lafayette_148_shantou.htm) (on project Lafayette 148).

"Digital Steam-bending." *Architect Magazine*, v. 99, no. 8, August, 2010, pp. 52-5 (on project Digital Steam-bending).

Hadighi, Mehrdad and Shahin Vassigh, editors. "Compass Drawign." *Project 25*, 25<sup>th</sup> Anniversary of the School of Architecture, State University of New York at Buffalo, 1995, p. 34.

## Grants & Funded Research

Ng, Tsz Yan, Arash Adel, Sean Ahlquist, Peter von Bülow, Matias del Campo, Catherine Griffiths, Wes McGee, Mani 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-September 10, 2021, \$5,000.

Ng, Tsz Yan, Mackenzie Bruce, Gabrielle Clune, and Jeffrey Richmond. "Rigging Videography." Spatializing Digital Pedagogies, Taubman College, University of Michigan, June 1-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-March 2021, \$15,000.

Ng, Tsz Yan and Wes McGee. "SOM Sponsored Studio." *Skidmore, Owings & Merrill LLP Gift*, August 28, 2019-August 28, 2021, \$50,000. (for thesis studio Topology +)

Ng, Tsz Yan, Sean Ahlquist, and Evgueni Filipov. "From Knit to Shell – Functionally Graded Knits for Concrete Monocoque Casting." *Prototyping Tomorrow*, Taubman College, University of Michigan, August 1, 2019-August 31, 2020, \$20,000.

Ng, Tsz Yan. "Recasting Concrete Japan." Center for Japanese Studies Faculty Research Grant, May 2019-October 2021, \$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*, Current, Dec. 2017-Nov. 2019, \$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, 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), 2011. (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 Manchouche. *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 Aspasia 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 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, Coordinator

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 2019. (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 21<sup>st</sup> 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

3<sup>rd</sup>-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 Studio Reviews

5<sup>th</sup>-yr Undergraduate Structure Design Studio, University of Pennsylvania, Weitzman School, Winter, 2021

5<sup>th</sup>-yr Undergraduate Design Studio, University of Iowa, Winter 2021

2<sup>nd</sup> + 3<sup>rd</sup>-yr Undergraduate Design Studio, Texas Tech University, Fall 2020

4<sup>th</sup>-yr Undergraduate Interdisciplinary Research Studio, Penn State University, Fall 2020

2<sup>rd</sup>-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.

4<sup>th</sup>-yr Undergraduate Studio, 2<sup>nd</sup>-y grad, University of Texas at Arlington, Winter 2017.

3<sup>rd</sup>-y Undergraduate Studio, Lawrence Technical University, Detroit, Winter 2016.

3<sup>rd</sup>-yr Design Studio, CalPoly, Winter 2009.

3<sup>rd</sup>-yr Undergraduate Design Studio, Graduate Design Studio, Thesis, SUNY at Buffalo, Winter 2007.

4<sup>th</sup>-yr Design Studio, University of Montréal, Fall 2006.

Ph.D. Theory Seminar, paper presentation, McGill University, Winter 2005.

3<sup>rd</sup>-yr Design Studio, Pennsylvania State University, Winter 2003.

3<sup>rd</sup>-yr Design Studio, Carleton University, Fall 2003.

2<sup>nd</sup>-yr Design Studio, University of Michigan, Fall 2003.

1<sup>st</sup>-yr Design Studio, Cornell University, Winter 2003.

3<sup>rd</sup>-yr Design Studio, Pennsylvania State University, Winter 2002.

Thesis Review, Cornell University, Winter 2001.

2<sup>nd</sup>-yr Design Studio, Thesis Review, SUNY at Buffalo, Winter 2001.

2<sup>nd</sup>-yr Design Studio, SUNY at Buffalo, Fall 2000.

Graduate Design Studio, SUNY at Buffalo, Fall 1998.

## Recognition/Citations of Student Work

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). *AIA 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 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, Association of Computer-Aided Design in Architecture. 2019-2022. (2 elected terms)  
2021: Secretary Officer, Chair: Scientific Committee, Diversity Committee  
2020: Chair: Scientific Committee, Elections Committee, Diversity Committee  
2019: Scientific Committee 2019, Elections Committee 2019, Emerging Research Awards Committee 2019

### Peer Review Committees, Panel Moderator, Jury

Peer reviewer 2021: International Journal of Architectural Computing, IJAC (full paper), Journal of Architectural Education, JAE (full paper)

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

Peer reviewer 2020: *Construction Robotics* (paper), *ARCC* (abstracts, full papers), *ACADIA* (papers, projects, NOMA award jury, 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.

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

Paper reviewer 2019: *ACADIA 2019 Ubiquity and Autonomy*

Paper reviewer 2018: *Interiors Journal*, *CAADRIA 2018*, *ACADIA 2018 Re/calibration: on Imprecision and Infidelity*

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

Paper reviewer 2016: *ACADIA 2016, Posthuman Frontiers, 104<sup>th</sup> ACSA Annual Meeting, Shaping New Knowledges*, session: Acting Out: The Politics and Practices of Interventions

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

Paper reviewer 2010: *98<sup>th</sup> ACSA Annual Meeting*, Re.Building, Session: Is Architecture Critical?

Juror. *3<sup>rd</sup>-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 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

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

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 Portfolio Jury (program), 2016-2017.

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

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

Member. *Undergraduate Transfer Admissions Committee*, Taubman College of Architecture + Urban Planning, 2015.

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