

# Tom Collins

## Curriculum vitae

January 2024

### EDUCATION

- 2015 Ph.D.  
University of Oregon, Department of Architecture
- The Influence of Design, Operations, and Occupancy on Plug Loads in Student Housing*  
<https://scholarsbank.uoregon.edu/xmlui/handle/1794/19258>
- Dr. Alison Kwok (chair), G.Z. Brown, Howard Davis, & Dr. Deborah Olson
- 2010 M.ARCH  
University of Oregon, Department of Architecture
- Behavior, Comfort, and Energy Consumption: In Student Residence Halls*  
<https://scholarsbank.uoregon.edu/xmlui/handle/1794/10732>
- Dr. Alison Kwok (chair), Dr. Mark Gillem, Fred Tepfer
- 2002 B.ARCH  
Rensselaer Polytechnic Institute, School of Architecture
- 2002 B.S., Building Sciences  
Rensselaer Polytechnic Institute, School of Architecture
- 2000 Tongji University, RPI China Studies Program
- 1999 Czech Technical University, RPI Vienna/Prague Summer Studies Program

### PROFESSIONAL CREDENTIALS

- 2007 Registered Architect, Commonwealth of Massachusetts, License # 20525
- 2005 LEED Accredited Professional (AP), USGBC

### ACADEMIC APPOINTMENTS

- 2015- Ball State University, Department of Architecture  
Assistant Professor – 2015-2022  
Associate Professor – 2022-Present

2008-15 University of Oregon, Department of Architecture  
Graduate Teaching & Research Fellow

2004-08 Boston Architectural College  
Adjunct Instructor

## PUBLICATIONS

### Edited Volumes

1. Collins, T., Grondzik, W., Kwok, A. (eds) (2019). *Mechanical and Electrical Equipment for Buildings, 13<sup>th</sup> Edition Learner's Guide*. Hoboken, New Jersey: Wiley.  
<http://bcs.wiley.com/he-bcs/Books?action=resource&bcsId=11587&itemId=1119463084&resourceId=46020>
2. Collins, T., Grondzik, W., Kwok, A. (eds) (2019). *Mechanical and Electrical Equipment for Buildings, 13<sup>th</sup> Edition Instructor's Manual*. Hoboken, New Jersey: Wiley.  
<http://bcs.wiley.com/he-bcs/Books?action=resource&bcsId=11542&itemId=1119463084&resourceId=46012>

### Book Chapters

1. Collins, T. (Forthcoming). Chapter 14, Design Build: "Leveraging the Solar Decathlon Competition as a Framework for a Comprehensive, Community Engaged, Carbon Neutral Architecture Studio." In R. Puttock, *Teaching Carbon-Neutral Design in North America: Award-winning Architectural Design Studio Methodologies*. New York: Routledge.
2. Collins, T. (2019). Chapter 1, Design Process: "RMI Innovation Center Case Study"; Chapter 12, Active Climate Control: "Ball State University Ground Source Heat Pump Case Study"; Chapter 31, "Elevators" (formatting & edits); Chapter 32, "Escalators & Other Mechanized Circulation Systems" (formatting & edits). In W. Grondzik & A. Kwok, *Mechanical and Electrical Equipment for Buildings, 13<sup>th</sup> Edition*. Hoboken, New Jersey: Wiley.  
ISBN 10: 1119463084
3. Collins, T. (2018). Chapter 2, The Studio: The Integrated Design Process: RMI Innovation Center Case Study; Chapter 5, Case Studies: "Council House 2", "Centre for Mathematical Sciences", "RMI Innovation Center", & "Exploratorium at Piers 15 & 17." In A. Kwok & W. Grondzik, *The Green Studio Handbook: Environmental Strategies for Schematic Design, 3<sup>rd</sup> Edition*. Oxford, UK: Architectural Press.  
ISBN 10: 9781138652293

3. Collins, T. (2011). Chapter 5, Case Studies: “Bad Aibling Spa,” “Cambridge Public Library Main Branch,” “Kenyon House,” “Offices for KfW Banking Group, Frankfurt,” “Manitoba Hydro Place,” “Marin Country Day School, Learning Resource Center,” “One Brighton,” & “Yodakandiya Community Complex.” In A. Kwok & W. Grondzik, *The Green Studio Handbook: Environmental Strategies for Schematic Design, 2<sup>nd</sup> Edition* (pp. 307-324, 335-374, 381-387). Oxford, UK: Architectural Press.  
ISBN-10: 0080890520

### Journal Articles

1. Collins, T., Overbey, D. (2020). Leveraging the U.S. Department of Energy Solar Decathlon Design Challenge as a Framework for Student-Led Adaptive Reuse Projects to Address Context-Specific Sustainable Design, Housing Affordability, and Community Resilience. *Journal of green building*.  
<https://meridian.allenpress.com/jgb/article-abstract/15/4/201/449474/LEVERAGING-THE-U-S-DEPARTMENT-OF-ENERGY-SOLAR?redirectedFrom=fulltext>

### Conference Proceedings

1. Collins, T. (2022) Continued Experiences with the Solar Decathlon Design Challenge. Proceedings of the 2022 Residential Building Design & Construction Conference, Virtual, 11-12 May.
2. Mitchell, A., Collins, T. (2020). Tuning the masses: climate specific energy optimization guidelines. EAAE ARCC International Conference 2020.
3. Collins, T., Grondzik, W., (2020). Experiences with Race to Zero/Solar Decathlon Design Challenge. Proceedings of the 2020 Residential Building Design & Construction Conference, State College, 4-6 March.
4. Collins, T., Grondzik, W., (2019). Simulating Design Integration in an Architecture Studio Setting. Proceedings of the 2019 John Reynolds Symposium, Portland, 18-19 October.
5. Collins, T. (2019). EQuALS - Environmental quality in active learning spaces. Proceedings of ARCC 2018 Conference, Philadelphia, 16-19 May.  
[https://www.researchgate.net/profile/Rebecca\\_Habtour/publication/333520472\\_Designing\\_Happiness\\_Capitalizing\\_on\\_Nature\\_Restorative\\_Qualities\\_ARCC\\_2018\\_Proceedings\\_Vol1\\_pg\\_29/links/5cf17ba192851c4dd01f6425/Designing-Happiness-Capitalizing-on-Nature-Restorative-Qualities-ARCC-2018-Proceedings-Vol1-pg-29.pdf#page=300](https://www.researchgate.net/profile/Rebecca_Habtour/publication/333520472_Designing_Happiness_Capitalizing_on_Nature_Restorative_Qualities_ARCC_2018_Proceedings_Vol1_pg_29/links/5cf17ba192851c4dd01f6425/Designing-Happiness-Capitalizing-on-Nature-Restorative-Qualities-ARCC-2018-Proceedings-Vol1-pg-29.pdf#page=300)  
38% Acceptance Rate
6. Collins, T., Grondzik, W. (2019). Three courses/four typologies: experiences with the 2017 Race to Zero Competition. Proceedings of RBDCC 2018 Conference. State College, PA. 28 February – 2 March.

7. Bollo, C., Collins, T. (2019). The power of words: Grounded Theory research in architecture and design. Proceedings of ARCC 2017 Conference, Salt Lake City, 14-16 June.  
[https://www.brikbases.org/sites/default/files/ARCC2017\\_Session2A\\_Bollo\\_Collins.pdf](https://www.brikbases.org/sites/default/files/ARCC2017_Session2A_Bollo_Collins.pdf)  
35% Acceptance Rate
8. Collins, T., Hegli, T. (2017). Modelling architecture design studio on practice-based integrated “ways of working.” Proceedings of EAAE ARCC International Conference – Lisbon 2016, Lisbon, 15-18 June.  
25% Acceptance Rate  
ISBN: 978-1-138-02966-8
9. Collins, T., Kwok, A., & Duluk, S. (2014). Visible ventilation: validating & illustrating the performance of a hybrid ventilation system in the United States. *Proceedings of 13<sup>th</sup> International Conference on Indoor Air Quality and Climate 2014*. Paper presented at the Indoor Air 2014 conference, Hong Kong, 7-12 July (pp. 486-493). NY: Curran.  
ISBN: 978-1-63439-731-5

### References to My Work

1. Hernandez, T. F. D. (2023). Exploring Online Biology Curricula Design in Online Biology Courses: A Qualitative Grounded Theory Study (Doctoral dissertation, Northcentral University).
2. Emmanuel, J. G., & Vinodhini, G. O. (2023, July). Recording and Conceptualising Cultural Values in Landscape: The Travelling Transect-based Drawing approach. In IOP Conference Series: Earth and Environmental Science (Vol. 1210, No. 1, p. 012033). IOP Publishing.
3. Joo, H., Lee, S., Kang, S. J., & Kim, S. Y. (2022). Vacant House Characteristics by Use Area and Their Application to Sustainable Community. *Applied Sciences*, 12(21), 10696.
4. Sedgewick, F. B. A. (2022). Architects, agency and the design process: creating supportive living environments for ageing. University of Northumbria at Newcastle (United Kingdom).
5. Kalateh Rahmani, E., Afzali, K., & Moinaddini, J. (2022). Investigating the Characteristics and Dimensions of Different Approaches to Grounded Theory in Urban Planning: A Systematic Review. *Geography and Urban Space Development*, 8(2), 65-80.
6. Wu, Y., Huo, S., Mu, J., & Kang, J. (2022). Sound Perception of Blind Older Adults in Nursing Homes. *Buildings*, 12(11), 1838.
7. Lehane, J. (2022). Towards Constructivist Grounded Theory Use in Cross-Border Live Projects. *Building Material*, (24), 55-86.

8. Jiao, L., Li, D., Zhang, Y., Zhu, Y., Huo, X., & Wu, Y. (2021). Identification of the Key Influencing Factors of Urban Rail Transit Station Resilience against Disasters Caused by Rainstorms. *Land*, 10(12), 1298.
9. Wang, J., Yi, F., Zhong, Z., Qiu, Z., & Yu, B. (2021). Diversity and causality of university students' energy-conservation behavior: Evidence in hot summer and warm winter area of China. *Journal of Cleaner Production*, 326, 129352.
10. Rahmani, A. I., Syaib, M., Nuryuningsih, N., Febriansyah, M. C., & Zahra, K. (2021). Volumetric Study: Strategi Perkuliahan Studio Perancangan Arsitektur. *TIMPALAJA: Architecture student Journals*, 2(2), 136-144.
11. Jami, S., Zomorodian, Z. S., Tahsildoost, M., & Khoshbakht, M. (2021). The effect of occupant behaviors on energy retrofit: A case study of student dormitories in Tehran. *Journal of Cleaner Production*, 278, 123556.
12. Du, J., & Pan, W. (2021). Examining energy saving behaviors in student dormitories using an expanded theory of planned behavior. *Habitat International*, 107, 102308.
13. Zamani, B., & Babaei, E. (2020). A Critical Review of Grounded Theory Research in Urban Planning and Design. *Planning Practice & Research*, 1-14.
14. Fannon, D., & Laboy, M. (2019, May). Methods of knowing. In ARCC Conference Repository.
15. Kan, T. W. (2019). Game Grounds: Playgrounds for gaming in the future city.
16. Welz, K. (2019). School Librarians' Participatory Practices and Development of Professional Identities in a Twitter Online Professional Learning Network (PLN) (Doctoral dissertation, New Jersey City University).
17. McGuire, M. P. (2019). Surface Design Operations in Landscape Architecture. *Landscape Journal*, 38(1-2), 43-60.
18. Rokosni, A. (2019). Sustainable accommodations affording sustainable behaviours: a mixed method investigation (Doctoral dissertation, Cardiff University).
19. Sellers, B. (2016). Investigating the Influence of the Built Environment on Energy-Saving Behaviors.

20. Osei-Poku, G. (2016). Post Occupancy Evaluation of the Ahanta Hall of Takoradi Polytechnic, Ghana.
21. Stefanovic, I. L., & Gelinas, L. (2012). Ethics, energy demand management and environmental design. *Environments: a journal of interdisciplinary studies*, 38(1).
22. Jami, S., Zomorodian, Z. S., Tahsildoost, M., & Khoshbakht, M. The effect of occupant behaviors on energy retrofit: A case study of student dormitories in Tehran. *Journal of Cleaner Production*, 278, 123556.

### **Portfolio of Work**

1. [http://issuu.com/tomcollin/docs/tom\\_collins\\_portfolio\\_of\\_work](http://issuu.com/tomcollin/docs/tom_collins_portfolio_of_work)

### **AWARDS & HONORS**

- 2024 AIA Indianapolis Design Excellence Award: Alley House
- 2020 ASHRAE LowDown Showdown Energy Performance Modeling Competition 2<sup>nd</sup> Prize
- 2019 ASHRAE LowDown Showdown Energy Performance Modeling Competition Finalist Team
- 2014 ARCC King Student Medal for Excellence in Architectural and Environmental Design and Research
- 2010 ARCC King Student Medal for Excellence in Architectural and Environmental Design and Research

### **GRANTS, FELLOWSHIPS, & SCHOLARSHIPS**

#### **External**

- 2022 US Dept. of Energy, Solar Decathlon Build Challenge Grant  
*Alley House Project (with D. Overbey & P. Harwood)*
- 2022 State Farm Insurance Neighborhood Assist Grant  
*Alley House Project (with P. Harwood)*
- 2021 Ball Brothers Foundation Rapid Grant  
*A Vital Study of the Emily Kimbrough Historic District (with J.P. Hall)*
- 2020 Ball Brothers Foundation  
*Skilled Trades Education Program (STEP) Pilot (with ecoREHAB of Muncie & Pam Harwood)*
- 2014 Society of Building Science Educators (SBSE) Retreat Scholarship

2014 ASHRAE Oregon Silver Award Scholarship

### **Internal**

2022- Ball State University Immersive Learning Sustained Course Grant: Solar Decathlon

2021-22 Ball State University Immersive Learning Provost Pilot Project Grant: Solar Decathlon Local Build Challenge

2019 Ball State University Immersive Learning Travel Grant & Mini Grant

2018 Ball State University Immersive Learning Travel Grant & Mini Grant

2016-17 Ball State University ASPIRE Junior Faculty Research Grant  
*EquALS: Environmental Quality in Active Learning Spaces*

2014 Anthony Wong Scholarship for Research in Sustainable Design, Travel Grant, University of Oregon

### **Proposals Submitted but Not Funded**

2019 Spencer Foundation  
*SAIL: Spatial Affordances and Interactive Learning* (with J. Griffith & S. Kanakri)

2017 Spencer Foundation  
*SAIL: Spatial Affordances and Interactive Learning* (with J. Griffith & S. Kanakri)

2016 Nuckolls For Lighting Education  
*Lighting Design for Human Needs* Course Proposal (with S. Kanakri)

### **INVITED TALKS**

2023 Alley House, Boston Sustainability Council. Virtual, 30 November.

2020 Indoor Environmental Quality in Design, University of Illinois Urbana-Champaign, September 2020 via video.

2019 Environmental Strategies for Schematic Design, University of Illinois Urbana-Champaign, March 13 via Skype.

2017 Teaching ZEB: an example from the USA, ZEB Konferenzen, Research Centre on Zero-emission Buildings, Trondheim, Norway, 19 January.

2017 POE & User Energy Issues, Norwegian University of Science & Technology (NTNU), MS in Sustainable Design Program, Trondheim, Norway, 18 January.

2016 Post-occupancy evaluation in challenging building types, EDRA 47 Raleigh – Innovation: Shifting Ground, May 18-21.

## CONFERENCE ACTIVITY & PARTICIPATION

2023 EDRA54 Conference, Mexico City, 20-23 May.

2023 SBSE Solar Decathlon Workshop, Denver, 21 April.

2023 Zero Energy Design Designation: Preparing the Next Generation of Designers. ACSA Webinar Virtual, 10 April.  
<https://www.acsa-arch.org/webinars/2023-zero-energy-design-designation-preparing-the-next-generation-of-designers/>

2022 Continued Experiences with the Solar Decathlon Design Challenge. 2022 Residential Building Design & Construction Conference, State College/Virtual, 11 May.

2022 Englewood Homes: Achieving PHIUS Core Prescriptive Certification in a Solar Decathlon Build Entry for Affordable, Infill Housing in Indianapolis. PHIUS Developers Summit, Virtual, 26 April.

2022 Skilled Trades Education Program (STEP). Intentional Development and Education for Association Members (I.D.E.A.), Muncie, 5 March.

2022 Managing Change in the Emily Kimbrough Historic District. Intentional Development and Education for Association Members (I.D.E.A.), Muncie, 5 March.

2020 Experiences with Race to Zero/Solar Decathlon Design Challenge. 2020 Residential Building Design & Construction Conference, State College, 4-6 March.

2019 Simulating Design Integration in an Architecture Studio Setting. John Reynolds Symposium, Portland, October 18-19.

2019 Student Research Workshop. 2019 SBSE Retreat, Lima, MT, July 22-25.

2018 From Race to Zero to the Solar Decathlon Design Challenge: Continued Experiences with the DOE's Net-zero Energy Student Design Competition. 2019 SBSE Retreat, Lima, MT, July 22-25.

2018 Further Experiences with Race to Zero. 2018 SBSE Retreat, Moravia, IA, July 15-18.

2018 EQuALS - Environmental quality in active learning spaces. 2018 ARCC Conference, Philadelphia, May 16-19.

2017 Three courses/four typologies: experiences with the 2017 Race to Zero Competition. 2018 Residential Building Design and Construction Conference, State College, PA, February 28-March 2.

2017 Navigating the Race to Zero Student Design Competition. SBSE Retreat, July 25-28.



- 2017 Every Energy Model is WRONG and INDISPENSABLE. AIA OVR 2017 Conference, Indianapolis, 27 September.
- 2017 The power of words: Grounded Theory research in architecture and design. ARCC 2017 Conference, Salt Lake City, 14-16 June.
- 2016 Navigating the Race to Zero Student Design Competition. SBSE Retreat, July 25-28.
- 2015 Modeling architecture design studio on practice-based integrated “ways of working,” EAAE ARCC Lisbon 2016, June 15-18.
- 2015 Post-occupancy evaluation in challenging building types, EDRA 47 Raleigh, May 18-21.

**CAMPUS & DEPARTMENTAL TALKS**

- 2023 CAP First Year, Presentation on Solar Decathlon Alley House
- 2022- Emerging Green Builders, Presentation on Solar Decathlon Alley House
- 2019- Environmental Systems, Ball State University, 4<sup>th</sup> Year Workshop Series

**TEACHING EXPERIENCE**

**Ball State University**

<b>Course</b>	<b>Terms</b>	<b>Subject</b>	<b>Level</b>	<b>Credits</b>	<b>Enroll.</b>
Our Warming World: Adaptation & Mitigation Strategies for Climate Change	F23	Seminar	UG	3	6
Comprehensive Architecture Studio	F23	Design Studio	UG	6	13
Environmental Systems II	F23	Building Tech.	UG	3	42
Environmental Systems I	S23	Building Tech.	UG	3	28
Comprehensive Architecture Studio	S23	Design Studio	UG	6	12
Our Warming World: Adaptation & Mitigation Strategies for Climate Change	S23	Seminar	UG	3	6
Our Warming World: Adaptation & Mitigation Strategies for Climate Change	F22	Seminar	UG	3	6
Comprehensive Architecture Studio	F22	Design Studio	UG	6	27
Environmental Systems II	F22	Building Tech.	UG	3	42
Design Application Workshop	Su22	Workshop	G	3	6
Comprehensive Architecture Studio	S22	Design Studio	UG	6	12
Solar Decathlon Seminar	S22	Seminar	UG/G	3	6
Comprehensive Architecture Studio	F21	Design Studio	UG	6	15

Environmental Systems II	F21	Building Tech.	UG	3	27
Comprehensive Architecture Studio	S21	Design Studio	UG	6	9
Environmental Systems I	S21	Building Tech.	UG	3	23
Comprehensive Architecture Studio	F20	Design Studio	UG	6	13
Environmental Systems II	F20	Building Tech.	UG	3	32
Comprehensive Architecture Studio	S20	Design Studio	UG	6	10
Environmental Systems I	S20	Building Tech.	UG	3	27
Comprehensive Architecture Studio	F19	Design Studio	U	6	14
Environmental Systems II	F19	Building Tech.	U	3	28
Special Problem in Architecture	Su19	Elective/Design	G	3	9
Community Engaged Design Workshop	Su19	Elective/Design	G	3	8
Environmental Systems I	S19	Building Tech.	UG/G	3	38
Comprehensive Architecture Studio	S19	Design Studio	G	6	9
Environmental Systems II	F18	Building Tech.	UG	3	27
Comprehensive Architecture Studio	F18	Design Studio	G	6	12
Environmental Systems I	S18	Building Tech.	UG	3	26
Comprehensive Architecture Studio	S18	Design Studio	G	6	8
Environmental Systems II	F17	Building Tech.	UG	3	24
Architectural Design 3	F17	Design Studio	UG	5	12
Environmental Systems I	Su17	Building Tech.	UG	3	2
Comprehensive Architecture Studio	S17	Design Studio	G	6	8
Environmental Systems I	S17	Building Tech.	UG	3	25
Architectural Design 3	F16	Design Studio	UG	5	11
Environmental Systems II	F16	Building Tech.	UG	3	18
Environmental Systems II	Su16	Building Tech.	UG	3	3
Environmental Systems I	Su16	Building Tech.	UG	3	2
Architectural Design 4	S16	Design Studio	UG	5	11
Environmental Systems I	S16	Building Tech.	UG	3	20
Environmental Systems II	F15	Building Tech.	UG	3	32

**M.Arch Thesis Advising**

	<b>Terms</b>	<b>Title</b>
Nathan Conley (Major Advisor)	F20-S21	<i>Design and Sustainability For The Workplace In A Post Covid-19 World</i>
Al Mitchell (Major Advisor)	F19-S20	<i>Tuning the Masses</i>
Sean Costello (Major Advisor)	F18-S19	<i>Thriving Environments</i>
Daniel Burns (Major Advisor)	F17-S18	<i>Smart Glass: The Future of Architectural Glazing</i>
Mason Olson (Minor Advisor)	F17-S18	<i>Race to Zero Competition</i>

Akila Anantharaman (Major Advisor)	F16, S17	<i>Affordable Housing for People Transitioning from Homelessness</i>
Luke Kamp (Major Advisor)	F16, S17	<i>Influencing Architecture</i>
Joe Humpal (Major Advisor)	F16, S17	<i>STEP - Standard Tracking of Efficient Projects</i>
Derek Morphew (Minor Advisor)	F16, S17	<i>Digitally Fabricated Energy</i>

### **B.Arch Thesis Advising**

	<b>Terms</b>	<b>Title</b>
Adam Jarosik (Major Advisor)	F22-S23	<i>Beacon of Hope</i>
Claire Sloderbeck (Major Advisor)	F22-S23	<i>Resilience</i>
Rebecca Booker (Major Advisor)	F22-S23	<i>Embracing Shelters in a New Light</i>
Noah Gibson (Major Advisor)	F21-S22	<i>Repairing our Fabric: Social, Environmental, &amp; Economic</i>
Luis Olguin (Major Advisor)	F20-S21	<i>Design for Sustainability: Net-zero Housing Prototype for Mexico</i>
Mitchell Isenhardt (Major Advisor)	F20-S21	<i>Optimizing the Office Environment</i>

### **CMID Master's Thesis Advising**

	<b>Terms</b>	<b>Title</b>
Sara Bone	S21-23	<i>Organic Design Interventions and their Relationship to Supportive and Healing Environments for Homeless</i>
Richard Bozwell	S19-	<i>Promoting an Innocuous School Environment Through Interior Design</i>

### **Honors College Thesis Advising**

	<b>Terms</b>	<b>Title</b>
Alexander Franklin (Major Advisor)	S17	<i>The Indianapolis Animal Testing and Educational Center</i>

### **Visiting Critiques & Presentations**

<b>Project/Class</b>	<b>Terms</b>	<b>Subject</b>	<b>Level</b>	<b>Instructor</b>
ARCH 400 Comprehensive Architecture Studio	F23	Design Studio	U	Shimizu
ARCH 400 Comprehensive Architecture Studio	S23	Design Studio	U	Shimizu
ARCH 400 Comprehensive Architecture Studio	F22	Design Studio	U	Shimizu
ARCH 400 Comprehensive Architecture Studio	S22	Design Studio	U	Shimizu
ARCH 404 Architecture Final Project Studio	S21	Design Studio	U	Philippe
ARCH 403 Architectural Design	F20	Design Studio	U	Barry
ARCH 400 Comprehensive Architecture Studio	F20	Design Studio	U	Shimizu
Solar Decathlon Design Challenge	S20	Design Studio	G	Overbey

ARCH 400 Comprehensive Architecture Studio	S20	Design Studio	U	Shimizu
ARCH 373 Environmental Systems 2	F19	Enviro. Systems	U	Overbey
ARCH 201 Architectural Design	F19	Design Studio	U	Cruz
Landscape Housing and Community Design	F19	Design Studio	U	Gray
Mixed-use Affordable Urban Living Typology	S19	Design Studio	U	Mounayer
An Institute for the Study & Application of the Principles of Biophilia	F18	Design Studio	U	Koester
Bridge project	F17	Design Studio	U	Burns
Light box project	S17	Design Studio	U	Klinger
Final Review	S17	Design Studio	U	Heidemann

### Guest Critiques at Other Universities

University	Project/Class	Terms	Subject	Level	Instructor
University of Detroit Mercy	Integrated Design Studio	F21, S22, F23	Design Studio	U	Leach/Nelson

### Student Awards

- 2023     2023 SARA Student National Design Awards: Merit Award for Alley House  
<https://www.sara-national.org/2023-national-student-design-awards>
  
- 2023     2023 Solar Decathlon Build Challenge. 1<sup>st</sup> Place Overall. National Renewable Energy Laboratory. Golden, CO. April 19-23. (I was the faculty co-lead)  
<https://www.solardecathlon.gov/event/2023-build-challenge-results.html>
  
- 2022     2022 Solar Decathlon Design Challenge. 2<sup>nd</sup> Place for the Attached Housing Contest. National Renewable Energy Laboratory. Golden, CO. April 22-24. (I was the faculty advisor)
  
- 2022     2023 Solar Decathlon Build Challenge. Team advanced to finalist round and received funding. National Renewable Energy Laboratory. Golden, CO. April 22-24. (I was a faculty co-lead)  
<https://www.solardecathlon.gov/event/2022-design-challenge-results.html>
  
- 2021     2021 Solar Decathlon Design Challenge. 3<sup>rd</sup> Place for the Urban Single-family Contest. National Renewable Energy Laboratory. Golden, CO. April 18. (I was the faculty advisor)  
<https://www.solardecathlon.gov/2021/design/challenges-results.html>
  
- 2020     ARCC King Medal for Student Research Achievement, Al Mitchell. (faculty advisor)  
<https://www.arcc-arch.org/arcc-2020-king-medal-recipients-announced/>
  
- 2020     Alpha Rho Chi Medal, Al Mitchell. (faculty advisor)
  
- 2020     ASHRAE Indianapolis Student Design Competition/Charette. 3<sup>rd</sup> place. Ball State University, Muncie, IN. February 15. (I am the student branch advisor)

- 2019 ASHRAE Indianapolis Student Design Competition/Charette. 1<sup>st</sup> Place. Purdue University, W. Lafayette, IN. February 23. (I am the student branch advisor)
- 2018 2018 Race to Zero Competition. 2<sup>nd</sup> Place for the Urban Single-family Contest. National Renewable Energy Laboratory. Golden, CO. April 22. (I was the faculty advisor)  
<https://www.energy.gov/eere/buildings/2018-results>
- 2017 2017 Race to Zero Competition. 1<sup>st</sup> Place for the Suburban Single-family Contest. National Renewable Energy Laboratory. Golden, CO. April 23. (I was the faculty advisor)  
<https://www.energy.gov/eere/buildings/2017-results>

## RESEARCH EXPERIENCE

- 2021- Department of Architecture, Ball State University  
*A Vital Study of the Emily Kimbrough District*  
 CoPI: J.P. Hall
- 2019- Department of Architecture, Ball State University  
*ecoREHAB Housing Performance Study*  
 PI: research project in conjunction with community partner ecoREHAB of Muncie
- 2019-20 College of Architecture and Planning, Ball State University  
*Sitework: The Practice of Remaking Post-Industrial Cities*  
 Co-PI: development of a collaborative research project for initial funding
- 2018 Department of Architecture, Ball State University  
 ASHRAE LowDown Showdown: Building Performance Analysis Competition  
 Worked with a collaborative research & design team
- 2017 Department of Architecture, Ball State University  
 Edited the Learner's Guide & the Instructor's Manual for *Mechanical and Electrical Equipment for Buildings*, 13<sup>th</sup> Edition
- 2017-19 Department of Architecture, Ball State University  
 Edited/rewrote 3 chapters and wrote 1 building performance case study in *Mechanical and Electrical Equipment for Buildings*, 13<sup>th</sup> Edition
- 2015-17 Department of Architecture, Ball State University  
*SAIL: Spatial Affordances in Interactive Learning Pretest*  
 Co-PI: Mixed methods study of an active learning classroom on the BSU campus  
 2<sup>nd</sup> Funding Proposal Submitted Summer 2019
- 2016-17 Department of Architecture, Ball State University  
*EQuALS: Environmental Quality in Active Learning Spaces*  
 PI: Mixed methods study of indoor environmental quality in 5 ILS classrooms on the BSU campus  
 Funding: ASPIRE Junior Faculty Grant

## **SERVICE TO THE PROFESSION**

### **Professional Organizations**

2017-23 Society of Building Science Educators (SBSE), Treasurer and Board of Directors

2017 Moderated a panel discussion at the AIA OVR regional conference entitled “Every Energy Model is Wrong & Indispensable,” 27 September 2017

2015-17 Society of Building Science Educators (SBSE), Co-chair Scholarships & Awards Committee

### **External Tenure Review**

2023 University of Texas at Arlington

### **External Journal Peer Review**

2021- Journal of Green Building (Editorial Board Member)

2013-16 Building Research & Information Journal (BRI)

### **External Conference Abstract & Paper Peer Review**

2023 Residential Building Design and Construction Conference (RBDCC)

2020 ARCC 2021 Conference

2019 John Reynolds Symposium

### **External Book Proposal Peer Review**

2010- Routledge/Taylor & Francis Group

## **DEPARTMENTAL & UNIVERSITY SERVICE**

### **Ball State University**

2021-23 University Higher Learning Commission Committee (CAP Representative)

2020- University Master Planning & Facilities Committee

2019- University Council on the Environment (COTE)

2017-19 University Core Curriculum Subcommittee (CAP Representative)

2017-18 University Libraries Renovation Committee

- 2017- ASHRAE Student Branch (Founder & Faculty Advisor)
- 2017-23 Architectural Research Centers Consortium (ARCC) (CAP Representative)
- 2017 BEEnow (Built Environment Education now) Task force
- 2017 CAP CMID Transition Curriculum Committee

**COMMUNITY SERVICE**

- 2021 Muncie Climate Coalition: Muncie Climate Resiliency Resolution
- 2021-22 ecoREHAB of Muncie Programs and Projects Committee
- 2020- ecoREHAB of Muncie STEP (Skilled Trades Education Program) (Program Advisor & Instructor)
- 2020- City of Muncie Historic Preservation & Rehabilitation Commission Board (Mayoral Appointee)
- 2019- Emily Kimbrough House Renovation Committee, Muncie, IN (Chair)
- 2019 Inspire Academy Tool Presentation to 2<sup>nd</sup> Grade Class, Muncie, IN
- 2019- Northside Middle School STEM Class Project, Muncie, IN
- 2019 8 Twelve Coalition Community Design Meetings/Charrettes, Muncie, IN
- 2019-22 HTLC Building Renovation Committee, Muncie, IN
- 2018-19 Old Washington St. Festival, Home Tour Chair, Muncie, IN (Chair)
- 2018- East Central Neighborhood Association Board, Muncie, IN (President)
- 2018-23 Grace Village Student Ministry Board (BSU Faculty Advisor, President)

**PROFESSIONAL MEMBERSHIPS & AFFILIATIONS**

- 2017- American Society of Heating, Refrigerating, & Air-conditioning Engineers (ASHRAE)
- 2012- Society of Building Science Educators (SBSE)
- 2002- American Institute of Architects (AIA) # 30231626