

# Tom Collins

## Curriculum vitae

March 2025

### 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>
- Committee: 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>
- Committee: 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-

College of Architecture & Planning  
Carbon Credit Purchase Program (C2P2) Director – 2024-

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 32, "Signal & Communication Systems" (formatting & edits). In W. Grondzik, D. Overbey & A. Kwok, *Mechanical and Electrical Equipment for Buildings, 14<sup>th</sup> Edition*. Hoboken, New Jersey: Wiley.
2. Collins, T. (2025). 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.
3. 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

4. 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
5. 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 Conceptualizing 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., Syuaib, 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.

## **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**

- |      |  |
|------|--|
| 2024 | US Forest Service: Wood Innovation Grant (with P. Harwood) (Proposal Pending)<br><i>Establish a Regional Panelization Training Site at The Yard in Muncie, IN</i>                              |
| 2024 | Ball Brothers Foundation Rapid Grant (with P. Harwood)<br><i>RE-imagining . . . RE-pairing . . . RE-building: Sustainable and Equitable Development and Prefabrication in the Old West End</i> |
| 2022 | US Dept. of Energy, Solar Decathlon Build Challenge Grant<br><i>Alley House Project</i> (with D. Overbey & P. Harwood)   |
| 2022 | State Farm Insurance Neighborhood Assist Grant<br><i>Alley House Project</i> (with P. Harwood)   |
| 2021 | Ball Brothers Foundation Rapid Grant<br><i>A Vital Study of the Emily Kimbrough Historic District</i> (with J.P. Hall)   |

### **Internal**

- |       |   |
|-------|---|
| 2025  | Ball State University ASPIRE Proposal Enhancement Grant (with P. Harwood & S. Kader)<br><i>Greener Living: A Post-occupancy Evaluation of the Alley House in Indianapolis</i> |
| 2024  | Ball State University, Department of Architecture, In Situ Grant (with P. Harwood)<br><i>Mass Timber Mini Module Exploring Innovative and Smart Solutions</i>                 |
| 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*

### **Proposals Submitted with External Partners**

- 2024-25 Indiana Economic Development Corporation (IEDC): Regional Economic Acceleration and Development Initiative (READI) (with P. Harwood & the Old West End Development Alliance/City of Muncie) (Proposal Pending)  
*READI 2.0: East Central Indiana - West End Comprehensive Community Development: Central City Housing Project*

### **Funded Proposals with External Partners**

- 2024-25 US Dept. of Energy (with Slipstream as a contractor)  
*Monitoring and Analysis of Ball State Alley House*
- 2020-22 Ball Brothers Foundation (with ecoREHAB)  
*Skilled Trades Education Program*

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

- 2025 Engagement Scholarship Consortium: Creative Activities Grant Program (with P. Harwood & S. Kader)  
*Post Occupancy Evaluation of Affordable Inner-city Duplex Housing: Englewood Homes and The Alley House Compared*
- 2024 Engagement Scholarship Consortium (with P. Harwood)  
*Conducting a Community Housing Needs Assessment for the Historic Old West End (OWE) Neighborhood*
- 2024 Building Better Neighborhoods  
*REHab . . . REFab: Old West End "Missing Middle" Workforce Housing RE-imagined*
- 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

- 2025      AIA/ACSA Intersections Research Conference: Housing Paradigms, Austin, TX, Jan 9-11
- 2024      AIA Regional Urban Design Conference, RUDC, Indianapolis, IN, Nov 14
- 2024      Great Lakes Open Source Mass Timber Collaborative Convening, Detroit, 22-23, Oct.
- 2024      2024 Residential Building Design & Construction Conference, State College, 27-28 Mar.
- 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      2022 Residential Building Design & Construction Conference, State College/Virtual, 11 May.
- 2022      PHIUS Developers Summit, Virtual, 26 April.



- 2021 Skilled Trades Education Program (STEP). Intentional Development and Education for Association Members (I.D.E.A.), Muncie, 5 March.
- 2021 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.
- 2019 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. 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.
- 2017 Navigating the Race to Zero Student Design Competition. SBSE Retreat, July 25-28.
- 2016 Modeling architecture design studio on practice-based integrated "ways of working," EAEE ARCC Lisbon 2016, June 15-18.
- 2015 Post-occupancy evaluation in challenging building types, EDRA 47 Raleigh, May 18-21.

## **CAMPUS & DEPARTMENTAL TALKS**

- 2024 CAP First Year, Presentation on Solar Decathlon Alley House
- 2023 CAP First Year, Presentation on Solar Decathlon Alley House
- 2022-23 Emerging Green Builders, Presentation on Solar Decathlon Alley House

## TEACHING EXPERIENCE

### Ball State University

Course	Terms	Subject	Level	Credits	Enroll.
Design Build Seminar	S25	Seminar	UG/G	3	3
Comprehensive Architecture Studio	S25	Design Studio	UG	6	20
Our Warming World: Adaptation & Mitigation Strategies for Climate Change	F24	Seminar	UG	3	5
Comprehensive Architecture Studio	F24	Design Studio	UG/G	6	23
Environmental Systems II	F24	Building Tech.	UG	3	43
Comprehensive Architecture Studio	S24	Design Studio	UG	6	29
Environmental Systems I	S24	Building Tech.	UG	3	41
Our Warming World: Adaptation & Mitigation Strategies for Climate Change	S24	Seminar	UG	3	8
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**

Elizabeth Wickware (HP Advisor)

### **Terms**

F24-S25

### **Title**

*Old West End Foodshed: A Strategic Network for Food and Community Resilience*

Nathan Conley (Major Advisor)

F20-S21

*Design and Sustainability for The Workplace In a Post Covid-19 World*

Al Mitchell (Major Advisor)

F19-S20

*Tuning the Masses*

Sean Costello (Major Advisor)

F18-S19

*Thriving Environments*

Daniel Burns (Major Advisor)

F17-S18

*Smart Glass: The Future of Architectural Glazing*

Mason Olson (Minor Advisor)

F17-S18

*Race to Zero Competition*

Akila Anantharaman (Major Advisor)

F16-S17

*Affordable Housing for People Transitioning from Homelessness*

Luke Kamp (Major Advisor)

F16-S17

*Influencing Architecture*

Joe Humpal (Major Advisor)

F16-S17

*STEP - Standard Tracking of Efficient Projects*

Derek Morphew (Minor Advisor)

F16-S17

*Digitally Fabricated Energy*

**B.Arch Thesis Advising**

	<b>Terms</b>	<b>Title</b>
Cade Iles (Major Advisor)	F24-S25	<i>The Future in Detail: Combining Historical Ornamentation w/ Modern Form</i>
Long Tram (Major Advisor)	F23-S24	<i>Small Towns Revival</i>
Navy Lynch (Major Advisor)	F23-S24	<i>Jump! Elementary</i>
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>

**Honors College Thesis Advising**

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

**Guest Critiques at Other Universities**

<b>University</b>	<b>Project/Class</b>	<b>Terms</b>	<b>Subject</b>	<b>Level</b>	<b>Instructor</b>
University of Detroit Mercy	Integrated Design Studio	F21, S22, F23, F24	Design Studio	U	Leach/Nelson

**Student Awards**

2023	2023 SARA Student National Design Awards: Merit Award for Alley House <a href="https://www.sara-national.org/2023-national-student-design-awards">https://www.sara-national.org/2023-national-student-design-awards</a>
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) <a href="https://www.solardecathlon.gov/event/2023-build-challenge-results.html">https://www.solardecathlon.gov/event/2023-build-challenge-results.html</a>
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

- 2024-25 Department of Architecture, Ball State University  
Edited/rewrote 1 chapter in *Mechanical and Electrical Equipment for Buildings*, 14<sup>th</sup> Edition
- 2023-25 Department of Architecture, Ball State University  
Authored 1 chapter in *Teaching Carbon-Neutral Design in North America: Award-winning Architectural Design Studio Methodologies*
- 2023- Department of Architecture, Ball State University & External Partners  
*Old West End Development Alliance, Center City Housing Project*
- 2023- Department of Architecture, Ball State University & External Partners  
*Alley House Monitoring Study*  
Co-PIs: P. Harwood, Nick Cindrich (USDOE)
- 2021-22 Department of Architecture, Ball State University  
*A Vital Study of the Emily Kimbrough District*  
CoPI: J.P. Hall

- 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
- 2017-19 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**

- 2024- Department of Architecture, Salary & Merit Committee
- 2022-24 Department of Architecture, Promotion & Tenure Committee (P&T)
- 2021-23 University Higher Learning Commission (HLC) (CAP Representative)
- 2020-24 University Master Planning & Facilities Committee (COTE Representative)
- 2019-24 University Council on the Environment (COTE) (CAP Representative)
- 2017-19 University Core Curriculum Subcommittee (CAP Representative)
- 2017-18 University Libraries Renovation Committee
- 2017- Department of Architecture, ASHRAE Student Branch (Founder & Faculty Advisor)
- 2017-23 Department of Architecture, Architectural Research Centers Consortium (ARCC)
- 2017 Department of Architecture, BEEnow (Built Environment Education now) Task force
- 2017 College of Architecture & Planning, CMID Transition Curriculum Committee
- 2017-23 Department of Architecture, Undergraduate Curriculum Committee (UCC)

## **COMMUNITY SERVICE**

- 2025 Burris Laboratory School Career Day
- 2021 Muncie Climate Coalition: Muncie Climate Resiliency Resolution
- 2018-21 ecoREHAB of Muncie Programs and Projects Committee

2021-22 East Central Neighborhood Association Board, Muncie, IN (Officer)

2020-24 ecoREHAB of Muncie STEP (Skilled Trades Education Program) (Program Advisor & Instructor)

2020-24 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

2019-24 Northside Middle School STEM Class Project, Muncie, IN

2019-22 HTLC Building Renovation Committee, Muncie, IN

2019- Old Washington St. Festival, Home Tour Chair, Muncie, IN (Chair)

2018-24 East Central Neighborhood Association Board, Muncie, IN (Board of Directors)

2018-24 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)

2002-24 American Institute of Architects (AIA) # 30231626