

## **EDUCATION**

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### **PhD in Architecture**

*University of Illinois at Urbana-Champaign*

**2020**

*Champaign, Illinois*

- Researched use of complex models to optimize neighborhood-scale design problems for social, environmental, and economic sustainability
- Broadened knowledge through teaching courses in design, mechanical systems, and structures
- Took on responsibility for and operated a pre-college summer program for high school students

### **MS in Architecture**

*University of Arizona*

**2012**

*Tucson, Arizona*

- Developed thesis on location-responsive design in mixed-use tall buildings
- Instructed courses in environmental performance and history

### **Bachelor of Architecture**

*Illinois Institute of Technology*

**2011**

*Chicago, Illinois*

- Cultivated nascent love and passion for buildings and urban systems
- Earned professional, NAAB-accredited degree in Architecture

## **AFFILIATIONS AND HONORS**

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### **Scholarships and Fellowships**

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|-------------------------------|----------------------------------|-------------|
| • Malcom Jaseph Scholarship   | University of Illinois           | Spring 2017 |
| • Graduate College Fellowship | University of Illinois           | 2016 – 2017 |
| • Plym Foundation Fellowship  | University of Illinois           | 2015 – 2016 |
| • Marvin Camras Scholarship   | Illinois Institute of Technology | 2006 – 2011 |

### **Awards and Recognitions**

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|------------------------------|----------------------------------|-------------|
| • Academic Performance Award | University of Arizona            | Fall 2012   |
| • Horwitz Award (Nominee)    | Illinois Institute of Technology | Spring 2010 |

### **Professional Affiliations**

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|------------------------|--------------------------------------|
| • Associate Member     | American Institute of Architects     |
| • LEED Green Associate | United States Green Building Council |

## **WRITTEN WORK**

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### **Conference Proceedings**

- Mosey, Grant and Brian Deal. (2017). “The Building Genome Project: Identifying faults with building energy performance.” Proceedings of 2017 ASCA Intersections Symposium, Orlando, Florida

### **Peer-Reviewed Academic Journals**

- Mosey, Grant and Brian Deal. (2021). “Optimizing Multi-Family Building Massing for Affordability and Envelope Performance: An architectural investigation of the trade-offs implicit in residential buildings of one to ten floors above grade.” *Buildings*, 11(99), <https://doi.org/10.3390/buildings11030099>
- Mosey, Grant and Brian Deal. (2021). “Measuring Economic Premium for Height in Chicago For-Sale and For-Rent Residential High-Rises: An Architectural Approach to Understanding Skyscraper Economics.” Forthcoming in *CTBUH Journal*.
- Chen, Si, Le Zhang, Yi Huang, Grant Mosey, and Brian Deal. (2021). “Spatial Impacts of Accessibility to Green Spaces on Housing Price in Cook County, Illinois.” Current Pending Peer Review with *Applied Geography*.
- Kwak, Yoonshin, Brian Deal, and Grant Mosey. (2021). “Landscape Design toward Urban Resilience: Bridging Science and Physical Design Coupling Socio-hydrological Modeling and Design Process. Currently Pending Peer Review with *Sustainability*.
- Chen, Si, Yoonshin Kwak, Le Zhang, Grant Mosey, and Brian Deal. (2021). “Tightly Coupling Input Output Economics with Spatio-Temporal Land Use in a Dynamic Planning Support System Framework.” *Land*, 10(1), <https://doi.org/10.3390/land10010078>
- Mosey, Grant and Brian Deal. (2020). Multivariate Optimization in Large-Scale Building Problems: An Architectural and Urban Design Approach for Balancing Social, Environmental, and Economic Sustainability. *Sustainability*, 12(23), 10052. <https://doi.org/10.3390/su12231005>

### **Grant Proposals**

- “Energy Efficiency Data Analytics Technology Application (E2DATA): Big Data Detection and Diagnosis of Energy Efficiency Performance Degradation in Military Buildings.” Submitted 2016 to Environmental Security Technology Certification Program (ESTCP), U.S. Department of Defense

## **WRITTEN WORK (Continued)**

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### **Guest Editorships**

- “Geodesign and Urban Planning.” A Special Issue of the Journal *Land*. Expected publication in 2021.

### **Academic Theses**

- “Multivariate Optimization of Neighborhood-Scale Problems for Economic, Environmental, and Social Sustainability.” Submitted May 2020 in partial fulfillment of the requirements for the degree of PhD in Architecture, University of Illinois Urbana-Champaign
- “Location-Responsive Design In the Mixed-Use High-Rise Typology.” Submitted December 2012 in partial fulfillment of the requirements for the degree of MS in Architecture, University of Arizona

## **TEACHING**

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### **Adjunct Lecturer**

*University of Illinois at Urbana Champaign*

- ARCH 537: Environmental Control Systems II
- LA 446: Sustainable Planning Seminar

**2021 - Present**

*Champaign, IL*

Spring 2021

Spring 2021

### **Instructor**

*University of Illinois at Urbana Champaign*

- ARCH 373: Design with Nature (Junior Studio)
- Discover Architecture Pre-College Program

**2016 –2019**

*Champaign, IL*

Fall 2016

Summer 2016 – Summer 2019

### **Teaching Assistant**

*University of Illinois at Urbana Champaign*

- ARCH 537: Environmental Control Systems II
- ARCH 342: Environmental Technology II
- ARCH 341: Environmental Technology I
- ARCH 501: Professional Practice
- ARCH 351: Statics and Dynamics

**2015 – 2020**

*Champaign, IL*

Spring 2020, Fall 2019, Spring 2018

Spring 2019

Fall 2018, Fall 2017

Spring 2018, Spring 2017; Spring 2016

Fall 2015

### **Teaching Assistant**

*University of Arizona*

- ARCH 421: Environmental Control Systems
- ARCH 231: Early World Architecture
- ARCH 332: Modern Architecture

**2011 – 2012**

*Tucson, AZ*

Fall 2012

Spring 2012

Fall 2011

## **EMPLOYMENT**

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### **Project Manager**

*Bureau Veritas*

**2016 - Present**

*Owings Mills, Maryland*

- Conducted pre-construction due diligence including document reviews and cost estimating
- Monitored on-site construction activities for conformance to Applications for Payment
- Evaluated plans, contracts, and budgets for HUD MAP and LEAN programs

### **Associate**

*OptimaLogix*

**2014 – 2015**

*Oakbrook Terrace, Illinois*

- Assessed existing and future capacities for healthcare facilities using complex models
- Coordinated master-plan-level allocation of existing and new construction resources
- Estimated construction hard and soft costs using parametric estimating techniques

## **SERVICE**

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### **Professional Service**

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|------------------------|--------------------------------|------------------------|
| • Volunteer Director   | Erlanger Evenings PhD Symposia | Fall 2019, Spring 2020 |
| • Volunteer Instructor | Orange and Blue Days           | Fall 2019              |
| • Volunteer Instructor | Admitted Student Days          | Fall 2018; Spring 2019 |

### **Personal Service**

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|------------------------|-------------------------------------|--------------------------|
| • Food Distributor     | Feeding Our Kids Champaign          | Spring 2020, Summer 2020 |
| • Employment Volunteer | Catholic Refugee Services of Tucson | Fall 2011                |