

Dr. Siobhan Francois Rockcastle

Associate Professor of Architecture

Co-Director of Graduate Studies, Department of Architecture

Frederik C. Baker Chair of Design & Co-Director of the Institute for Health in the Built Environment

University of Oregon (srockcas@uoregon.edu)

Director of Design, OCULIGHT Dynamics (siobhan.rockcastle@oculightdynamics.com)

Education

2012-17 Ecole Polytechnique Fédérale de Lausanne, **PhD**
School of Architecture, ENAC, Lausanne, Switzerland [**Special Distinction for Thesis**]
Thesis: Perceptual Dynamics of Daylight in Architecture
Adviser: Dr. Marilyne Andersen

2009-11 Massachusetts Institute of Technology, **SMArchS, Building Technology**
SA+P, Cambridge, MA [**SMArchS Thesis Award**]
Thesis: Daylight Variability and Contrast-Driven Architectural Effect
Advisers: Dr. Marilyne Andersen and Dr. Terry Knight

2003-08 Cornell University, **BArch**
AAP, Ithaca, NY [**Alpha Rho Chi Bronze Medal**]
Thesis: Pig's Eye Park, Reoccupying the Dump
Advisers: Kevin Pratt and Leire Asensio-Villoria

Academic Appointments

2025- **University of Oregon, Co-Director of Graduate Studies**
Department of Architecture

2024- **University of Oregon, Associate Professor of Architecture**
Frederik C. Baker Chair in Design, Director of the Baker Lab, Co-Director of IHBE

2018-2024 **University of Oregon, Assistant Professor of Architecture**
Frederik C. Baker Chair in Design, Director of the Baker Lab, Associate Director of IHBE

2022- **TU Munich – Institute of Advanced Study, Hans Fischer Fellow (since 2022)**
Hosted by Professor Thomas Auer and Funded by the Georg Nemetschek Institute

2017 **Ecole Polytechnique Fédérale de Lausanne, Post-Doctoral Assistant (June - December 2017)**
School of Architecture, Civil and Environmental Engineering

2013-17 **Ecole Polytechnique Fédérale de Lausanne, Doctoral Assistant (2013-2017)**
School of Architecture, Civil and Environmental Engineering

2011-12 **Northeastern University, Teaching Fellow & Visiting Assistant Professor (2011-2012)**
School of Architecture, College of Arts, Media and Design

2010-11 **Massachusetts Institute of Technology, Teaching & Research Assistant (2010-2011)**
Department of Architecture, School of Architecture & Planning

2008-09 **Cornell University, Teaching Associate (2008-2009)**
Department of Architecture, College of Architecture, Art & Planning

Honors and Awards

2024 **AIA COTE Top Ten Student Award**, Faculty Adviser to Sofia Gonzales (B.Arch, 2024)
For the project titled, 'WAVE: Widely Accessible Vocational Education Center'

2024 **Teaching Excellence Award**, College of Design, University of Oregon
Awarded by the Dean's Leadership Council for excellence in teaching within the College of Design

2023 **MIPM Award in the Industrial and Logistics Building Category**, Audemars Piguet Manufacture Les Saignoles in Le Locle with Kunik de Morsier
OCULIGHT dynamics consulted on the daylight design and performance for this project between 2018-2019.

2022- **Hans Fischer Fellowship, TUM-IAS**, Funded by the Georg Nemetschek Institute (3-year award)
Recognizes Outstanding early-career (doctorate completed within the past 12 years) international scientists, 80,000 Euro award, 1 funded PhD student at TUM-IAS, and 9-months in residence at TUM-IAS

2022- **Francis Bronet Innovation Award**, College of Design, University of Oregon
\$4,500 fund Awarded by Dean Adrian Parr in support of 'The Impact of lighting design on occupant perception and behavior in a healthcare environment: an experiment in virtual reality' with Kyuho Ahn

2022 **Architizer A+ Finalist in commercial factories and warehouses category**, Audemars Piguet Manufacture Les Saignoles in Le Locle with Kunik de Morsier
OCULIGHT dynamics consulted on the daylight design and performance for this project between 2018-2019

2021 **ARCC New Researcher Award**, selected by the ARCC Board of Directors
Awarded to emerging figures in architectural and environmental design research that demonstrate innovation in thinking, dedication in scholarship, contributions to the academy, and leadership within architectural and environmental design research.

2020 **Best Paper Award, SimAUD 2020 conference**, Vienna Virtual due to COVID-19
For the paper titled, 'Evaluating Temporal and Spatial Light Exposure Profiles for Typical Building Occupants,' co-authored by Megan Danell (UO MArch student), Maria Amundadottir, and Siobhan Rockcastle

2020-21 **Francis Bronet Innovation Award**, College of Design, University of Oregon
\$4,500 fund Awarded by Interim Dean Laura Vandenburgh in support of 'Motivation/Function, Comfort, Arousal and Behavioral Response in Built Environment via VR Setting' with Kyuho Ahn (Associate Professor of Interior Architecture)

2019 **Latrobe Prize Finalist**, Recognized by the Jury, FAIA, Denver
Selected as a finalist to present a collaborative project proposal to the FAIA Latrobe Prize Jury in Denver, CO, together with Andrea Love (Payette Architects) and Sue Ishaq (University of Oregon)

2018 **2nd Prize for OCULIGHT dynamics, 'LePrix StartUp Durable'**, Les Temps, CH
OCULIGHT dynamics acknowledged as one of the most innovative Swiss Start-ups in sustainability in 2018, together w/ Marilyne Andersen and Maria Amundadottir (co-founders)

2018 **Special Distinction for PhD Thesis**, Recognized by the Doctoral School, EPFL
Nominated by my thesis dissertation committee and selected as one of 9 graduating doctoral students short-listed for the Top Dissertation Award across all doctoral schools at EPFL in 2017 (awarded in 2018)

2014 **Velux Research Fellowship** (4 years), 100% PhD & Post Doc funding, Velux Stiftung, Zurich
Awarded for our proposal, 'Perceptual Dynamics of Architecture,' written by Marilyne Andersen and Siobhan Rockcastle to support 4-years of funding

2015 **Honorable Mention**, Fribourg urban design competition, Fribourg
Awarded to the competition design team, together with Pierre Escobar of Studio Nomadic Architecture for the proposal to re-design a public streetscape in historic Fribourg

2013 **Architizer A+ Finalist**, Architecture & Learning, Soft Rocker, KVA matX
Worked on the design team from schematic design, through design development, prototyping, fabrication, and installation in the MIT courtyard

2013 **Architizer A+ Special Mention**, Architecture & Fab, Beaver Wood Vault, KVA
Worked on the design team from schematic design, through design development, prototyping, fabrication, and installation on site in the Beaver Country Day School

2012 **Best Paper Award, SimAUD 2012** conference, Orlando
Lead author on the paper that summarized findings from my MIT SMArchS thesis, together with Marilyne Andersen

2011-12 **Teaching Fellowship**, School of Architecture, Northeastern (2011-2012)
Awarded a one-year fellowship to teach a suite of classes and develop an exhibition on my research. Courses included comprehensive design studio, daylighting design, and environmental control systems

2011 **SMArchS Thesis Prize**, for 'Daylight Variability and Contrast-Driven Arch. Effect,' MIT
Nominated by my thesis committee and awarded by faculty in the Department of Architecture for my SMArchS thesis on Daylight Variability and Contrast-Driven Architectural Effect

2011 **Award of Excellence**, Ryerson SLC, Snøhetta, Canadian Architect
Worked on the team throughout schematic design, including building massing, environmental control, and interior daylight concepts.

2010-11 **Samuel A. Marx Fellowship**, full tuition award for outstanding scholastic merit, MIT
Awarded to cover tuition costs in the second year of my SMArchS degree

2010 **Holcim Forum Student Poster Selection**, for 'channels for learning', MIT
Awarded for our design of a school in Cambodia with Tiffany Chu, Lisa Pauli, Lisa Hedstrom, Joseph Nunoz & Juliana Sassaman (faculty advisors: Marilyne Andersen, Meejin Yoon, and John Ochsendorf

2008 **Alpha Rho Chi Bronze Medal**, for leadership and professional merit, Cornell
Selected by faculty in the department of architecture to a graduating BArch student

2008 **Robert James Eidlitz Traveling Fellowship**, energy infrastructure Iceland, Cornell
Supported a proposal to study the energy infrastructure in Iceland during the 2008 summer

2007 **Lifecycle Building Challenge, Honorable Mention**
Awarded for our proposal, 'The Foam Dome,' with Cayley Lambur, Kevin Pratt, and Dana Cupkova, Cornell

2007 **AIA NYS Student Design Award**, for 'growing Gibraltar,' Cornell
Nominated by faculty in the Department of Architecture for design work in an advanced studio with Cristina Diaz Moreno and Efren Garcia Grinda

2004 **First Place Baird Prize**, for 'pop-up cinema' in 1st year design competition, Cornell
Selected by faculty in the department of architecture during the first-year design competition

Funded Grants/Projects/Contracts

(\$433,939 as PI and \$239,950 as Co-PI since joining UO):

2025 **(PI) ARS and Tallwood Design Institute Funding, \$40,000** to support 'Systems-integrated mass timber assemblies for affordable housing: lighting, electrical, and acoustics' w/ Kyuho Ahn and Cory Olsen (Co-PIs, UO Interior Architecture Department), notified of award on July 10, 2025.

2025 **(co-PI) ARS and Tallwood Design Institute Funding, \$120,000** to support 'Research and Innovation for Mass Timber in Healthcare' w/ Mark Fretz (PI) and Jason Stenson (Co-PI), notified of award on July 10, 2025.

2025 **(co-PI) NEEA, \$20,500** to support 'NEEA Annual Reporting' w/ Mark Fretz (PI) to support outreach and scanning activities from the University of Oregon for 2025

2024 **(co-PI) NEEA, \$20,500** to support 'NEEA Annual Reporting' w/ Mark Fretz (PI) to support outreach and scanning activities from the University of Oregon for 2024

2024 **(PI) ARS and Tallwood Design Institute Funding, \$40,000** to support 'Surface matters: Exploring the impact of finishes on human factors that limit market adoption of mass timber' w/ Kyuho Ahn (Co-PI, UO Interior Architecture Department), notified of award on June 20, 2024.

2023 **(PI) AIA Upjohn Grant, \$20,000 (\$44,000 total budget - \$22,000 from AIA, w/ \$22,000 match from Quinn Evans with a \$20,000 subaward to UO)** for the proposal titled, 'A research-informed guide to circadian lighting design in existing buildings' w/ Julia Siple (PI, Quinn Evans), Denise Gravelle (PI, Quinn Evans), Thalia Chrousous (collaborator, Quinn Evans), and Alen Mahic (collaborator, UO), notified of award on October 23, 2023.

2022-24 **(PI) Francis Bronet Innovation Award, \$4,500** to support 'The Impact of lighting design on occupant perception and behavior in a healthcare environment: an experiment in virtual reality,' w/ Kyu-Ho Ahn, College of Design, University of Oregon.

2021-23 **(PI and Co-PI*) NEEA Research Grant on the Circadian Health Potential of an LLC Lighting System, \$90,000** to support a field and simulation-based study that evaluates the circadian health potential of an overhead LLC system, funded by the Northwest Energy Efficiency Alliance, w/ Kevin Van Den Wymelenberg and Alen Mahic. Awarded in 2021, completed in January 2023. * 48,050 in 2022 (PI) and 41,950 in 2021 (Co-PI)

2021-22 **(PI) PNNL Research Grant on Circadian Lighting & Visual Comfort, \$66,000** to support a simulation-based study on the impacts of visual comfort on circadian light exposure using the WELL standard, subaward from DOE SSL through PNNL, w/ Alen Mahic, awarded in 2021, completed in 2022.

2021-22 **(PI) PNNL Research Grant on Perception in Virtual Reality, \$94,993** to support an experimental study on the impact of VR display type on the perception of LED lighting, subaward from DOE SSL, w/ Kevin Van Den Wymelenberg, awarded in 2021, completed in 2022.

2021 **(PI) ZGF Visual Comfort Study, \$26,000** to analyze shading systems for a confidential project in Portland w/ Kevin Van Den Wymelenberg, University of Oregon, awarded in 2021, completed in 2021.

2021 **(Co-PI) Francis Bronet Innovation Award, \$4,500** to support the Motivation/Function, Comfort, Arousal and Behavioral Response in the Built Environment Using Virtual Reality and Biofeedback Sensing, w/ Kyu-Ho Ahn, College of Design, University of Oregon, awarded in 2021, ongoing.

2019-21 **(PI) PNNL Research Grant on Perception in 2D & 3D Displays, \$74,396** to support a pilot study comparing perceptions of electric light in real and virtual environments, subaward from DOE SSL, University of Oregon, awarded in 2019, completed in 2021.

2018-19 **(PI) Nuckolls Fund Grant, \$20,000** to develop a new course on 'Virtual Lighting Design' w/ Kevin Van Den Wymelenberg, Zach Suchara, Nathaniel Jones, and Naomi Miller, University of Oregon, awarded in 2018, completed in 2019.

2018-19 **(Co-PI) Lutron White Paper, \$10,000** to develop a white paper on daylight and views in the workplace w/ Kevin Van Den Wymelenberg, University of Oregon, awarded in 2018, completed in 2019.

2018 **(Co-PI) Knight Campus Visual Comfort Analysis, \$22,500** of internal funds from CPFM to analyze exterior glazing and shading screens for glare risk w/ Kevin Van Den Wymelenberg, University of Oregon, awarded in 2018, completed in 2018.

2017-18 **(PI) InnoSeed Venture Grant, 26,000 CHF** for OCULIGHT interface, EPFL, Lausanne, awarded in 2017, completed in 2018.

2017-18 **(PI) InnoSeed Explorer Grant, 20,000 CHF** for OCULIGHT interface, EPFL, Lausanne, awarded in 2017, completed in 2018.

2013-18 **(Key Personnel) Velux Stiftung Research Fellowship, 350,000 CHF** to support Doctoral and Post-Doc, EPFL, Lausanne, w/ Marilyne Andersen, awarded in 2013, completed in 2018.

Peer-Reviewed Publications

A note on author order: It is common for the first author to lead manuscript preparation and the last author to be Principal Investigator on the project or play a major support role. Directing a lab with external funding results in many papers being co-authored by master and PhD students.

*Indicates UO Bachelor, Master, or PhD Students, where authorship emerged from supervision/instruction

**UO Indicates Bachelor, Master, or PhD Students at UO who was employed through grant activity or internal funding

***Indicates a Bachelor, Master, or Doctoral Students outside UO, where authorship emerged from supervision/instruction

Journal Articles (published):

2025 N. Di Santo, R.F. Rupp, J. Christoffersen, L. Sarran, **S.F. Rockcastle**, R. Søgaard, S. Maagaard, K. Benjamin R. Bjørksov, J.P. Herrero Gil, A. Guglietti, and L. Feifer. Ensuring excellent indoor environments and ultra-low carbon footprint in a single-family house from design to operation. *Energy and Buildings* 2025, Volume 348, 1 December 2025.

2024 ***N. Nikookar, A.O. Sawyer, M. Goel, and **S.F. Rockcastle**. Investigating the impact of combined daylight and electric light on human perception of indoor spaces. *Sustainability*, Vol. 16 (9), 3691, 2024.

2024 **S.F. Rockcastle** and A. Mahic. Simulating the annual energy demand to meet non-visual health recommendations from a luminaire level lighting control system, *Energy and Buildings*, Vol. 303, 2024.

2024 **S.F. Rockcastle**, **G. Whalen, **A. Milgrim, R. Davis, The use of virtual screens in perceptual studies on electric light: a comparison between 2D, panoramic, cardboard, and head-mounted displays, *LEUKOS*, vol. 20 (3), 2024.

2022 W. H. Ko, S. Schiavon, S. Altomonte, M. Andersen, A. Batool, W. Browning, G. Burrell, K. Chamlothori, Y-C. Chan, G. Chinazzo, J. Christoffersen, N. Clanton, C. Connock, T. Dogan, B. Faircloth, L. Fernandes, L. Heschong, K. W. Houser, M. Inanici, A. Jakubiec, A. Joseph, C. Karmann, M. Kent, K. Konis, I. Konstantzos, K. Lagios, L. Lam, F. Lam, E. Lee, B. Levitt, W. Li, P. MacNaughton, A. M. Ardkan, J. Mardaljevic, B. Matusiak, W. Osterhaus, S. Petersen, M. Piccone, C. Pierson, B. Protzman, T. Rakha, C. Reinhart, **S. F. Rockcastle**, H. Samuelson, L. Santos, A. Sawyer, S. Selkowitz, E. Sok, J. Strømann-Andersen, W. C. Sullivan, I. Turan, G. Unnikrishnan, W. Vicent, D. Weissman, J. Wienold. Window view quality: why it matters and what we should do, *LEUKOS*, Vol. 18 (3), 2022.
[<https://www.tandfonline.com/doi/full/10.1080/15502724.2022.2055428>]

2021 *M.C. Coronado, **S.F. Rockcastle**, A. Kwok, Environmental Health Perceptions in University Classrooms: Results from an Online Survey During the COVID-19 Pandemic, *Frontiers in Built Environment*, published online December 24, 2021. [<https://www.frontiersin.org/articles/10.3389/fbui.2021.784634/full>]

2021 **S.F. Rockcastle**, **M. Danell, **E. Calabrese, A. Mahic, K. Van Den Wymelenberg, R. Davis, Comparing Perceptions of LED Lighting Between a Physical Space and a Virtual Reality Display, *Lighting Research and Technology*, published online February 24, 2021.
[<https://journals.sagepub.com/doi/abs/10.1177/1477153521990039>]

2017 Ámundadóttir M.L., **Rockcastle S.**, Sarey Khanie M., Andersen M., A Human-Centric Approach to Assess Daylight for Non-Visual Health Potential, Visual Interest and Gaze Behavior, *Building & Environment*, vol 113, February 2017. [<https://www.sciencedirect.com/science/article/abs/pii/S0360132316303869>]

2016 **Rockcastle S.**, Ámundadóttir M.L., Andersen M., A Comparison of Contrast-Based Measures for Predicting Perceptual Effects of Daylight in Architectural Renderings, *Lighting Research and Technology* (published online first, April 15, 2016). [<https://journals.sagepub.com/doi/abs/10.1177/1477153516644292>]

2014 **Rockcastle S.**, Andersen M., Measuring the Dynamics of Contrast and Light Variability in Architecture: A Proof-of-Concept Methodology, *Building and Environment*, vol 81, November 2014, 320-333. [<https://www.sciencedirect.com/science/article/abs/pii/S036013231400198X>]

Journal Articles (pre-print):

2025 Reitmayer A., ***Kobas B., Kammermeier M., Luque C.R., Johnstone K.R., Madigan C., Cook M.M., Auer T., **Rockcastle S.F.**, Spitschan M.. Non-linear effects of evening light exposure on cognitive performance. *bioRxiv* 2025.03.16.643585; doi: <https://doi.org/10.1101/2025.03.16.643585>

Articles in a Conference Proceeding (accepted/published):

2026 *A. Momenaei, A. Rempel, and **S. F. Rockcastle**. Exploring the Interplay Between Window Design and External Views on Window-Opening Preferences in Educational Settings. *SimBuild 2026*, Minneapolis, May 20-22, 2026 [paper accepted].

2025 **S. F. Rockcastle**, A. Mahic, and J. Christoffersen. Evaluating the role of glazing area, orientation, and latitude on circadian health potential in a residential space. *Healthy Buildings 2025*, Reykjavik, June 8-11, 2025.

2025 A. Satumane and **S. F. Rockcastle**. Balancing Privacy and View: Horizontal Zonal Occlusion in Window Shading Design. *ARCC 2025: Emerging Challenges*, College Park, April 2-5, 2025.

2024 J. Christoffersen, S. Maagaard, K. Reimer, A. Guglietti, L. Feifer, N. di Santo, L. Sarran, **S. F. Rockcastle**. Living Place: Healthy Homes for People & Planet – A Simulation Based Evaluation to Ensure Optimal Indoor Environment, *PLEA 2024*, Wroclaw, June 25-28, 2024.

2023 **S.F. Rockcastle**, **H. Carlberg, *M. Esmailian, M. Amundadottir, Simulating the impact of building form, interior wall composition, and occupant behavior on disparities in circadian health potential in an office environment, *Building Simulation 2023*, Shanghai, Sept. 4-6, 2023.

2023 **S.F. Rockcastle**, A. Mahic, S. Safranek, and R. Davis. The impact of automated window shading on visual comfort, non-visual health, and energy demand from electric lighting. *Building Simulation 2023*, Shanghai, Sept. 4-6, 2023.

2023 *A. Satumane, **S.F. Rockcastle**. The impact of space function and window view on perceived indoor environmental quality and privacy, *Proceedings to ARCC 2023*, Dallas, April 12-15, 2023.

2022 **S. F. Rockcastle**, **G. Whalen, and Robert Davis. Comparing perceptions of web-based 2D perspective and 360-degree navigable images with measurements from a physical space and a virtual reality headset, *Proceedings to the IES Annual Conference 2022*, New Orleans, August 18-20, 2022.

2022 *H. Parhizkar, M. Fretz, **S. F. Rockcastle**, K. Van Den Wymelenberg. A simulation-based approach to mitigate disease transmission risk from aerosol particles in buildings, *Proceedings to SimAUD 2022*, San Diego, July 18-19, 2022.

2021 *J. McLaughlin, M. Young and **S. F. Rockcastle**. Fine-grained measurement of the indoor built environment with robotic vacuum cleaners, *Proceedings to Building Simulation 2021*, Bruges, Sept. 1-3, 2021.

2021 *M. Danell, S. L. Hartmeyer, L. Petterson, M. Andersen, R. Davis, **S. F. Rockcastle**. The Impact of Light and Furniture Distribution on Healthy Light Exposure in an Office, *Proceedings to Building Simulation 2021*, Bruges, Sept. 1-3, 2021.

2021 *A. Satumane and **S. F. Rockcastle**. A Pilot Study on the Contextual and Environmental Factors Influencing Window Shading Preference, *Proceedings to ARCC 2021: Performative Environments*, Virtual, April 7-10, 2021.

2021 *S. Ghasemi, J. H. Lee, **S. F. Rockcastle**, R. Taylor, and K. Van Den Wymelenberg. The Scene Dynamism as an Aspect of Rating Indoor View Quality, *Proceedings to IES Annual Conference*, Virtual, August 9-13, 2021.

2020 **S.F. Rockcastle**, *M. Danell, L. Petterson, M.L. Ámundadóttir, The Impact of Behavior on Healthy Circadian Light Exposure Under Daylight and Electric Lighting Scenarios, *Proceedings to ACEEE Summer Study on Energy Efficiency in Buildings 2020*, Pacific Grove, Aug 16 – 21, 2020.

2020 *M. Danell, M.L. Ámundadóttir, **S.F. Rockcastle**, Evaluating Temporal and Spatial Light Exposure Profiles for Typical Building Occupants, *Proceedings to SimAUD 2020*, May 22-24, 2020. **[Best Paper Award]**

2019 P. Ward, **S. F. Rockcastle**, J. Kline, and K. Van Den Wymelenberg, The Impact of Lighting and Views on Human Functionality in The Workplace, *Proceedings to the 2019 IES Annual Conference*, Louisville, August 8-10, 2019.

2019 **S.F. Rockcastle**, M.L. Ámundadóttir, M. Andersen, The case for occupant-centric daylight analytics: a comparison of horizontal illuminance and immersive view, *Proceedings to Building Simulation 2019*, Rome, Sept. 2-4, 2019.

2018 **S.F. Rockcastle**, M.L. Ámundadóttir, M. Andersen, OCUVIS: A web-based visualizer for simulated daylight performance in buildings. *Proceedings to SimAUD 2018*, Delft, June 4-7, 2018.

2017 **S. F. Rockcastle**, M. L. Ámundadóttir and M. Andersen. A Simulation-based workflow to assess human-centric daylight performance, *Proceedings to SimAUD 2017 – Symposium on Simulation for Architecture & Design*, Toronto, May 22-24, 2017.

2017 **S. F. Rockcastle**, K. Chamlothori, and M. Andersen. An experiment in virtual reality to measure daylight-driven interest in rendered architectural scenes, *Proceedings to BS2017 – 15th International Conference of the International Building Performance Simulation Association*, San Francisco, August 7-9, 2017.

2016 L. Pastore, P. Rastogi, **S. F. Rockcastle**, H. Y. C. Monari and G. Rueff. Assessing the impact of contemporary urbanization on bioclimatic features of historic architecture through a two-step simulation process, *Proceedings to Passive and Low-Energy Architecture*, Los Angeles, July 11-13, 2016.

2016 **S. F. Rockcastle**, M. L. Ámundadóttir and M. Andersen. Towards a novel prediction model for visual interest in daylit renderings, *Proceedings to SimAUD 2016*, London, May 16-18, 2016.

2015 **S. F. Rockcastle** and M. Andersen. Human perceptions of daylight composition in architecture: a preliminary study to compare quantitative contrast measures with subjective user assessments in HDR renderings, *Proceedings to Building Simulation 2015*, Hyderabad, December 7-9, 2015.

2013 M. Andersen, A. Guillemin, M. L. Ámundadóttir and **S. F. Rockcastle**. Beyond illumination: An interactive simulation framework for non-visual and perceptual aspects of daylighting performance, *Proceedings to Building Simulation 2013*, Chambéry, France, 2013.

2013 **S. F. Rockcastle** and M. Andersen. Celebrating Contrast and Daylight Variability in Contemporary Architectural Design: A Typological Approach, *Proceedings to LUX EUROPA*, Krakow, Poland, 2013.

2012 **S. F. Rockcastle** and M. Andersen. Dynamic Annual Metrics for Contrast in Daylit Architecture, *Proceedings to SimAUD 2012*, Orlando, Florida, 2012. **[Best Paper Award]**

Conference Abstracts with Presentation:

2022 K-H. Ahn, **M. Vanko, **B. Woods, **A. Gottlin, **S.F. Rockcastle**. Immersive technology in lighting research experiment in café and office design. *2022 Interior Design Educators Council (IDEC) Annual Conference*, August 2-5, Virtual, 2022.

Book Chapters (Invited)

2019 "Lamps, Luminaires, and Controls" Chapter 15 in *Mechanical and Electrical Equipment for Buildings 13th Edition*, pp. 699 – 731 by Walter Grondzik and Alison Kwok, Hoboken: Wiley, 2019. [edited chapter through page 731, extended content, and provided multiple new illustrations].

Edited Conference Proceedings

As General Chair:

2019 **S.F. Rockcastle**, T. Rakha, C. Cerezo Davila, S. Papanikolau, T. Zakula (Eds.). SimAUD 2019 Proceedings, Society for Modelling & Simulation, April 7-9, Georgia Tech, Atlanta, USA. 400 pages.

As Scientific Chair:

2018 T. Rakha, M. Turrin, D. Macumber, F. Meggers, **S.F. Rockcastle** (Eds.). SimAUD 2018 Proceedings, Society for Modelling & Simulation, June 4-7, TU Delft, Netherlands. 352 pages.

White Papers

2019 P. Ward, **S. F. Rockcastle**, J. Klein, K. Van Den Wymelenberg. The Impact of Lighting and Views on The Workplace of The Future. Published online August 12, 2019.

Presentations of a Peer-Reviewed Publication

2025 Evaluating the role of glazing area, orientation, and latitude on circadian health potential in a residential space, Healthy Buildings 2025, in-person, Reykjavik (2025).

2023 Simulating the impact of building form, interior wall composition, and occupant behavior on disparities in circadian health potential in an office environment, Building Simulation 2023, Virtual (2023).

2023 The impact of automated window shading on visual comfort, non-visual health, and energy demand from electric lighting. Building Simulation 2023, Virtual (2023).

2022 K.H. Ahn and S.F. Rockcastle. Immersive technology in lighting research experiment in café and office design. *2022 Interior Design Educators Council (IDEC) Annual Conference*, August 2-5, Virtual (2022)

2020 The Impact of Behavior on Healthy Circadian Light Exposure Under Daylight and Electric Lighting Scenarios, ACEEE Summer Study on Energy Efficiency in Buildings 2020, Virtual (2020)

2020 Evaluating Temporal and Spatial Light Exposure Profiles for Typical Building Occupants. SimAUD - Symposium on Simulation for Architecture and Urban Design, Virtual (2020)

[Best Paper Award]

2019 The case for occupant-centric daylight analytics: a comparison of horizontal illuminance and immersive view. Proceedings of IBPSA 2019 conference, Rome (2019)

2018 A web-based visualizer for simulated daylight performance in buildings. SimAUD - Symposium on Simulation for Architecture and Urban Design, Delft (2018)

2017 A Simulation-based workflow to assess human-centric daylight performance. SimAUD 2017 – Symposium on Simulation for Architecture & Design, Toronto (2017)

2017 An experiment in virtual reality to measure daylight-driven interest in rendered architectural scenes. BS2017 – 15th International Conference of the International Building Performance Simulation Association, San Francisco (2017)

2016 Towards a novel prediction model for visual interest in daylit renderings. 7th Symposium on Simulation for Architecture and Urban Design (SimAUD), London (2016)

2015 Human perceptions of daylight composition in architecture: a preliminary study to compare quantitative contrast measures with subjective user assessments in HDR renderings. International Conference of the International Building Performance Simulation Association, Hyderabad (2015)

2013 Celebrating Contrast and Daylight Variability in Contemporary Architectural Design: A Typological Approach. LUX EUROPA, Krakow, Poland (2013)

2012 **S. F. Rockcastle** and M. Andersen. Dynamic Annual Metrics for Contrast in Daylit Architecture. SimAUD 2012 – Symposium on Simulation for Architecture and Urban Design, Orlando (2012) **[Best Paper Award]**

Invited Lectures/Workshops

2025 The Impacts of Light Exposure on Cognitive Performance, Circadian Entrainment, and Thermal Physiology. Invited keynote, TUM Institute for Advanced Study Annual Assembly, Garching, Germany (May 20, 2025).

2025 Designing healthy daylit spaces: the intersection between research and practice. Invited keynote presentation, Daylight Academy (DLA), Garching, Germany (May 22, 2025).

2025 How does daylight shape our well-being in buildings? invited guest lecture by Azadeh Sawyer for undergraduate and graduate students, Carnegie Mellon University, virtual (February 26, 2025).

2025 Daylighting design and analysis, invited guest lecture by Thomas Auer and Sebastian Koth for third-semester undergraduate architecture students, TUM (January 14, 2025).

2024 How do buildings shape our physical and mental well-being?, invited presentation by the Institute for Advanced Study at TU Munich in Fall 2024, TUM, virtual (November 27, 2024).

2024 Occupant-Centric Light Exposure in Buildings, invited presentation by Dr. Manuel Spitschan for the Current Topics in Sleep & Circadian Health Webinar Series in Spring/Summer 2024, TUM, virtual (July 8, 2024).

2024 Impacts of Design and Behavior on Shaping Eye-Level Light Exposure, invited presentation at the IES/DOE research symposium, Portland, in-person (May 15-16, 2024).

2023 Invited to present two project ideas at 'Close Hauled - Preparing Architects for the Energy Transition: A symposium on architectural education in sustainable building design,' MIT, in-person, (September 14-15, 2023).

2023 Daylight Design to Support Occupant Well-Building, invited to present at Quinn Evan's 'July Design Morsel', presented virtually to a group of practitioners across six office locations (July 20, 2023).

2023 Lighting Design to Support Human Health, invited presentation in the Future of Building Industry Workshop (FOBI) at the University of Nebraska Durham School of Architectural Engineering, in-person (2023)

2023 The influence of dynamic occupant behavior on predicting non-visual health in buildings, invited presentation at the Human Factors Symposium at PNNL's Richland campus, in-person (2023)

2023 The Perceptual Effects of Daylight on Human Experience, invited lecture by Dr. Ute Besenecker in a doctoral course on lighting research at KTH Royal Institute of Technology, virtual (2023)

2023 Lighting Design in Virtual Reality, invited virtual lecture by Dr. Azadeh Sawyer, Carnegie Mellon (2023)

2023 The Impact of Daylight on the Design of Healthy Buildings, Invited lecture and workshop (in-person) at Florida Atlantic University (2023).

2023 Achieving Non-Visual Health in the Workplace using LLLCs, invited presentation (webinar) to NEEA's Product Council (2023)

2022 The Evolving Value of Daylighting, Invited Webinar w/ Kevin Van Den Wymelenberg for Pacific Energy Center, Virtual (offered by Pacific Gas & Electric & IES education) (2022)

2022 Lighting Perception in Virtual Reality: Opportunities and Limitations, Invited presentation in the 2022 IES Research Symposium, Orlando (2022)

2022 Energy efficient lighting and window shading controls to support occupant health, Invited virtual presentation at the DOE-IES Lighting R&D Workshop

2022 Daylight Design and Analysis, invited virtual lecture by Dr. Hoa Vo, Lighting Design Course, University of Georgia

2022 Daylight Analysis and Design, invited virtual lecture by Dr. Tarek Rakha, Environmental Sys. Course, Georgia Tech

2022 Lighting & Well-Being, invited virtual lecture by Michiru Tanaka, Lighting Course, Pratt

2021 Virtual Lighting Design, invited virtual lecture by Dr. Azadeh Sawyer, Lighting Design Course, Carnegie Mellon

2021 Evaluating the Environment with Domestic Robots: a Passive Approach to Fine-Grained Analysis, w/ Joseph McLaughlin, invited presentation at Build Health 2021, Virtual.

2021 Lighting Design & Research in Virtual Reality, invited virtual presentation at the Lighting R&D Workshop, co-sponsored by the IES and U.S. Department of Energy

2020 Factors in Daylight Analysis, w/ Kevin Van Den Wymelenberg, Invited webinar at Pacific Gas & Electric, Virtual

2020 Electric Lighting Simulation for Circadian Health & Energy invited virtual presentation w/ Lisa Petterson at Build Health 2020

2020 Virtual Lighting Design invited virtual presentation at Build Health 2020

2019 Current Trends in Daylighting invited lecture and workshop w/ Kevin Van Den Wymelenberg at Pacific Gas & Electric (PG&E), San Francisco

2019 Image-Based Human-Centric Daylight Assessment Workshop, invited round-panel presentation w/ Richard Mistrick (Penn State) & Kevin Van Den Wymelenberg, LIGHTFAIR International, PA

2019 Lighting Perception in VR, invited Speaker at the DOE SSL R&D Annual Meeting, Washington D.C

2019 Human-Centric Lighting, invited lunchtime lecture at SRG Architects, Portland

2019 Human-Centric Daylight Performance, invited lecture in MIT Spring Lecture Series in the BT Path, Boston

2018 Designing Health in the Built Environment, invited lecture w/ Kevin Van Den Wymelenberg at Oregon Institute of Occupational Health at OHSU, Portland

2018 Public Lecture Series, invited lecture in Cal Poly Pomona Spring Lecture Series, Pomona

2018 Simulating Circadian Light Workshop, w/ Aicha Diakite, Frederic Rudawski, and Jon Sargent, SimAUD 2018, Delft

2017 Human-Centric Lighting Workshop, w/ Maria Amundadottir, SimAUD 2017, Toronto

2017 Dynamic Daylight in Ryerson SLC, Invited lecture, w/ Maria Amundadottir at Snohetta, NYC

2017 Virtual Reality in Daylighting, w/ Kynthia Chamlothori at the Velux Daylight Symposium, Berlin

2016 Current Research on Visual Interest, Invited speaker at Transsolar Research Days, Stuttgart

2016 Daylight Perception in Architecture, Invited speaker at NBBJ, San Francisco

2016 Daylight Perception in Architecture, Invited speaker at KADK, Royal Danish Academy of Fine Arts, Copenhagen

Professional Experience

2018- **OCULIGHT dynamics, Lausanne, Switzerland (2018-current)**
Co-Founder & Director of Design
 This company consults on novel human-centric metrics for daylight performance in buildings

2022-23 **EPFL Ecotope for 3XN and Itten+Brechbühl**, Lausanne, Switzerland (ongoing)
300,000 sf mass-timber innovation center
Consulting with the design team to maximize daylight and work synergistically to improve indoor environmental comfort, on the RFP team that won the commission.

2022-23 **1-2-3 Housing Retrofits for Velux**, Rotterdam, Netherlands (ongoing)
1,000 sf loft space, demonstration project
Evaluated the impact of a 1 for 1, 2 for 1, and 3 for 1 retrofit of existing skylights in a demonstration house, commissioned by Velux

2022-23 **Innovation House Office Space** (w/ Praksis Architects) for Velux, Denmark
135,000 sf office space in two-story renovated warehouse
Consulted for the design architect and client on layout of skylights and human-centric performance over the year, commissioned by Velux

2022 **Tour Tilia Tower for Realstone Group** (w/3XN, Itten+Brechbühl), Lausanne
21,000 sf over bottom 3 stories of a 400,000 sf mass-timber tower
Evaluated the health-potential and visual comfort for a mixed-use portion of the program, commissioned by the developer

2021-22 **Study of Health and Emotion in Meier & Partners Projects**, New York, New York
Mixed sf across 4 different projects
Evaluated health potential for the Smith House (Connecticut), Reforma Office Tower (Mexico City), Jubilee Church (Rome), and Four-Seasons (Miami), commissioned by the architect

2021 **Home of the Future for Velux**, Copenhagen, Denmark
2,000 sf model home
Consulted on daylight performance and created animations to illustrate the health potential for hypothetical building occupants in a model home, commissioned by Velux

2021 **Research Center for the Smart Living Lab**, Fribourg, Switzerland
50,500 sf educational building

Evaluated the impact of PV-integrated glass on visual interest and glare risk as well as non-visual health-potential in zones with atrium access, commissioned by Smart Living Lab

2020 **Nautiland Pool for Bouygues**, Haguenau, France
30,000 sf indoor pool
Evaluated the risk for glare across all pool surfaces and adjacent circulation zones to ensure safety for lifeguards who need to maintain visual acuity in the renovated pool, commissioned by Bouygues

2020 **Daylight Matrix for WeWork**, New York, New York
Mixed sf of indoor workspace
Evaluated two floors of WeWork space in New York City to understand the impacts of interior partitions and workspace layout on access to light health, commissioned by WeWork

2019 **Co-Working for the Smart Living Lab**, Building 2050 Group, Fribourg
80,000 sf of co-working space
Evaluated the impact of interior material finishes and program layout on the health potential of lab and lounge spaces, commissioned by Smart Living Lab

2018-19 **Campus I for Audemars Piguet**, Les Saignoles, Switzerland
50,000 sf of precision manufacturing and workspace
Evaluated light health, emotion, and visual comfort across a series of design options and provided recommendations to the architect, commissioned by Audemars Piguet

2018-19 **Campus II for Audemars Piguet**, Le Brassus, Switzerland
150,000 sf of workspace
Evaluated light health, emotion, and visual comfort across a series of design options and provided recommendations to the architect, commissioned by Audemars Piguet

2014- **Independent Daylight Design Consultant (2014-current, intermittent)**
Independent Contractor
 Healthy Lighting for GOOD INC/UPWORTHY, New York, NY (2022)
 Campus Expansion, Ecole Hôtelière de Lausanne, Lausanne, Switzerland
 Automata Pavilion Competition, TEN x TEN, Chicago, Illinois
 Fribourg Master Plan Competition, DEVspace, Fribourg

2011-13 **Kennedy & Violich Architecture**, Boston, MA
Designer & Project Manager
 Bending Wood Vault for the Beaver Country Day School, Boston, MA
 Minneapolis Riverfront Development Initiative, Minneapolis, MN
 Sunlight Delivery Fixtures for 3M Architectural Markets, Minneapolis, MN
 Tozzer Library Renovation, Cambridge, MA
 Solar-Powered Soft Rockers for MIT's 150th Anniversary, Cambridge, MA

2010 **Snøhetta**, New York, NY (May – August)
Intern Architect
 Ryerson Univ. SLC, Toronto [Award of Excellence by Canadian Architect]

2009 **Epiphyte Lab**, Ithaca, NY (January – May)
Intern Architect
 HSU Residence Ithaca, NY

2004-08 **MSR Architecture**, Minneapolis, MN & Hyattsville, MD (intermittent)
Intern Architect (Intermittent)
 Urban Outfitters Corporate HQ Philadelphia, PA
 Farragut Street Row Homes, Hyattsville, MD

2005-07 **Cornell Solar Decathlon Team**, Ithaca, NY & Washington D.C.
Architecture Team Co-Leader
Cornell's 2007 entry in the U.S. Department of Energy sponsored Solar Decathlon

2003 **Gensler**, New York, NY (May - August)
Intern Architect
Thornton Tomasetti Offices, New York, NY

Press/Media

2026 'University of Oregon's Integrated Design Lab with Mark Fretz and Siobhan Rockcastle' on the BUILDING HEROes Podcast by Julia Day Shelby Ruiz (Posted online January 9th, 2026) <https://rss.com/podcasts/buildingheroespodcast/2385005/>

2018 'Working Together: Siobhan Rockcastle on Learning from Others and Sharing What You Know,' by Julia Gamolina for Madame Architect (Architexx blog, 2018) <https://www.architexx.org/subtexxt/working-together-siobhan-rockcastle-on-learning-from-others-and-sharing-what-you-know>

2016 10 Typologies of Daylighting: From Expressive Dynamic Patterns to Diffuse Light, by Thomas Schielke for ArchDaily (2016) <https://www.archdaily.com/787734/10-typologies-of-daylighting-from-expressive-dynamic-patterns-to-diffuse-light>

2015 Visualizing Perceptual Dynamics in Architecture, in Phoenix, Bauen im Bestand, vol. 1, p. 62-67 (2015) <https://infoscience.epfl.ch/record/205745?ln=en>

Courses Taught

2018- **University of Oregon, Associate Professor of Architecture (2018 – current)**
Frederik C. Baker Chair in Design

Courses Taught:

2025 **ARCH 383 Architectural Design Studio**, 6 cr. Fall (2025)
Required studio course for 2nd-year BArch students – co-taught with 4-5 other faculty (14-16 students per studio section).
Projects:
Market Hall and Test Kitchen, Eugene, Oregon (2025) - Studio Coordinator

2025 **ARCH 495/595 Daylighting**, 3 cr. Spring (2025)
Elective on the design and analysis of daylight performance. Satisfies as an advanced technical elective for architecture students if they take 1-credit of 405/605. Format includes lectures and workshops.

2024 **ARCH 485/585 & ARCH 486/586 Terminal Design Studio**, 8 cr. Winter & 8.cr. Spring (2024)
Solo taught capstone comprehensive design studio, both graduate and undergraduate
Project:
Career Technical Education Center at David Douglas High School, Portland

2023-26 **ARCH 491/591 Environmental Control Systems 1**, Required Course, 4 cr. (2023 – 2024, 2026)
Required course for BArch and MArch students (co-taught with Professor Tom Hahn + 3 GEs) format includes lectures, section activities, and workshops on computer software

2019-22 **ARCH 484/584 Architectural Design Studio**, 6 cr. (2019, 2022)
Solo taught studios for advanced design students, both graduate and undergraduate
Projects:
Oregon Museum of Climate Science, sites in McKenzie watershed (2019)

Early Childhood Learning Center, Eugene, Oregon (2022)

2018-23 **ARCH 384 Architectural Design Studio**, 6 cr. (2018-2021, 2023)
Required studio course for 2nd-year BArch students – co-taught with 4-5 other faculty (14-16 students per studio section)
Projects:
Boathouse in Lowell, Oregon (2018-2019)
Center for Brew Science, Eugene, Oregon (2020) - Studio Coordinator
Culinary Arts Center, Eugene, Oregon (2021) - Studio Coordinator
Hub for Dramatic Arts, Eugene, Oregon (2023) – Studio Co-Coordinator

2021-22 **ARCH 495 Simulation & Visualization**, Elective Course, 4 cr. (2021-2022)
*Elective course for BArch and MArch students and satisfies as a technical elective.
format includes lectures, workshops, and guest presentations*

2020-22 **ARCH 440/540 Human Context of Design**, Required Course, 4 cr. (2020, 2022)
*Required course for BArch and MArch students (co-taught with Professor Jenny Young in 2020 and Professor Mark Gillem in 2022 + 3 GES)
format includes lectures and section activities*

2018-23 **IARC 492/592 Electric Lighting**, Required Course, 3 cr. (2018-2019, 2021-2023)
*Required course for BIArc and MIArc students and satisfies as a technical elective for architecture students if they take 1-credit of 405/605
Format includes lectures and workshops*

2018-21 **ARCH 678 Advanced Research Methods**, Required course, 4 cr. (2018, 2020, 2021)
*Required course for doctoral students
Format includes lectures, one-on-one critique sessions, and guest presentations*

2019 **ARCH 410/510 Virtual Lighting Design**, Elective Course, 4 cr. (2019)
*Elective course for BArch and MArch students and satisfies as a technical elective. Course was supported by a \$20,000 Nuckolls Fund Grant in 2018 to promote lighting education using Virtual Reality.
Format includes lectures, workshops, and guest presentations*

2018 **ARCH 410/510 Human Centric Environments**, Elective Course, 3-4 cr. (2018)
*Elective course for BArch and MArch students and satisfies as a technical elective
Format includes lectures, workshops, and guest presentations*

2018 **ARCH 610 Celebration of Light with James Carpenter**, 1 cr. (2018)
*Elective course for BArch and MArch students
Format was held over three days and included lectures and workshops with James Carpenter*

2013-17 **Ecole Polytechnique Fédérale de Lausanne, Doctoral Assistant**
School of Architecture, Civil and Environmental Engineering
Courses co-Taught:
Solar Decathlon Summer Workshop, Master Level (2016)
Space and Light: The Lighting Project, Master Level (2015)
Architecture and Sustainability: Critical Approaches, Doctoral Level (2014)

2011-12 **Northeastern University, Teaching Fellow & Visiting Assistant Professor**
School of Architecture, College of Arts, Media and Design
Courses Taught:
Architecture & Energy Systems, Bachelor Level (2011)
Comprehensive Design Studio, Bachelor Level (2012)
Daylight Design Seminar, Master Level (2012)

2011 **Massachusetts Institute of Technology, Teaching Assistant**
 Department of Architecture, School of Architecture & Planning
Courses Taught:
 2011 Comprehensive Design Studio, Master Level (2011)

2008-09 **Cornell University, Teaching Associate**
 Department of Architecture, College of Architecture, Art & Planning
Courses Taught:
 Summer College Introduction to Architectural Design Studio (2008)
 Undergraduate Design Studio 101 (2008)
 Undergraduate Design Studio 102 (2009)

Recognition of Student Work/Support of Student Research

2025 **Metropolis Future 100 Student Class Selection**, Terminal Design Instructor to Alborz Nazari (M.Arch student, 2024), who submitted his project for the David Douglas Career Technical Education Center.

2024 **AIA COTE Top Ten Student Award**, Faculty Supervisor to Sofia Gonzales (UO B.Arch student, 2024), who was awarded for her project, 'Wave: Widely Accessible Vocational Education,' by faculty in the Department of Architecture. This project also acknowledged Kelly Kottlowski (UO M.Arch '23 alumni) and Octavio Gutierrez (BRIC Architects) as collaborators.

2024 **Interdisciplinary Thesis Award**, Faculty Supervisor to Rigel Wakil (UO B.Arch and Clark Honors College graduate, 2024) for his thesis titled, 'Measuring human emotional response to architectural materials in daylighting conditions,' defended in Spring, 2024 and awarded by faculty in Clark Honors College.

2024 **Sustainable Design Award**, Instructor of Sofia Gonzales (UO B.Arch student, 2024), who was awarded for her terminal design project, 'Wave: Widely Accessible Vocational Education,' by faculty in the Department of Architecture

2024 **Design Excellence Award**, Instructor of Alborz Nazari (UO M.Arch student, expected December, 2024), who was awarded for his terminal design project, 'Paradigm to Prototype,' by faculty in the Department of Architecture

2023 **Hart Howerton Fellowship Award**, Faculty Supervisor to Rigel Wakil (UO B.Arch and Clark Honors College student, 2024) who will complete a summer internship at Hart Howerton in SF and then travel to Japan to study the impacts of daylight on interior space using immersive 360-degree photography **[\$20,000 to support salary, housing, and travel]**.

2023 **Clark Honors College Mentored Research Program**, Faculty Supervisor to Rigel Wakil (UO B.Arch student, 2024) who was awarded **\$860 for hourly research in the Baker Lab** in the Spring of 2023. This award will support Rigel's time to work on an experiment and data analysis for his Honor's College Thesis

2022-23 **Nike PhD Fellowship**, Faculty Supervisor to Anupam Satumane (UO PhD Student, expected 2023) Summer 2022 - Summer 2023 for his proposal, 'Leveraging workplace design to promote workplace experience: Evaluating the impacts of social, environmental, and workplace settings on employee satisfaction **[\$60,000 to support research and living expenses]**.

2021-22 **UROP Mini Grant**, Faculty Supervisor to Marin Nagle (UO B.Arch and Clark Honor's College Student, '2022) who was awarded a **\$1,000 grant to support research** through the Undergraduate Research Opportunity Program and the Office of the Vice President for Research and Innovation (2021-22).

2021-22 **Promising Scholar Award** Faculty Supervisor to Maryam Esmailian (incoming Doctoral students, expected '2025) who was awarded a **\$6,000 top off stipend** from the Division of Graduate Studies and secured 2 years of GE funding through the Department of Architecture (2021-2023).

2020 **Best Paper Award SimAUD 2020**, for the paper titled, 'Evaluating Temporal and Spatial Light Exposure Profiles for Typical Building Occupants,' and co-authored by Megan Danell (UO MArch student '2020), Maria Amundadottir, and Siobhan Rockcastle. This research emerged out of an independent study with Megan Danell in the Winter of 2020.

Thesis & Dissertation Committees

Clark Honor's College Thesis Committees:

2020-21 Hannah Gerton, Honors College Thesis Advisor, BArch, University of Oregon
2021-22 Marin Nagel, Honors College Thesis Advisor, BArch, University of Oregon
2022-24 Hadley Carlberg, Honors College Thesis Advisor, BArch, University of Oregon
2022-24 Rigel Wakil, Honors College Thesis Advisor, BArch, University of Oregon
2024- Gayatri Misra, Honors College Thesis Advisor, BArch, University of Oregon (expected 2026)

Doctoral Thesis Committees:

2019-21 Sadiqa Al Awadh, Dissertation Committee, University of Oregon (2019-2021)
2020-22 Hooman Parhizkar, Dissertation Committee, University of Oregon (2020-2022)
2019-24 Anupam Satumane, Advisor & Dissertation Committee, Univ. of Oregon (2024 expected)
2022-24 Maria Coronado, Exam Committee Chair, University of Oregon (2022)
2021-24 Maryam Esmailian, Advisor & Exam Committee Member, Univ. of Oregon (did not finish)
2022- Niloofar Nikookar, Doctoral Thesis Committee, PhD in Arch., Georgia Tech (expected 2026)

Master of Science Thesis Committees:

2019 Denise Blankenberger, Master Thesis Committee, MSc, University of Oregon (2018-2019)
2022 Sohrab Ghasemi, Master Thesis Committee, MSc, University of Oregon (2021-2022)
2022 Selorm Fati, Master Thesis Committee, MSc, University of Oregon (2021-2022)
2022 Dan Qin, Master Thesis Committee, MSc, University of Oregon (2021-2022)
2022 Tanmay Naik, Master Thesis Committee, MS in Architecture, Georgia Tech (2022)
2026 Sophia Blatnik, Master Thesis Committee, MSc, University of Oregon (2025-2026)

Service

Leadership Positions (UO):

2025- Co-Director of Graduate Studies, Dept. of Architecture, University of Oregon (2025-current)
2024- Co-Director of the Institute for Health in the Built Environment, University of Oregon (2024-current)
2023-24 Associate Director of the Institute for Health in the Built Environment, University of Oregon
2018- Chair of the Baker Lighting Lab, University of Oregon (2018-current)

Architecture Department Committees (UO):

2024- Administrative Academic Council AAC, Dept. of Architecture, University of Oregon (2024-current)
2022- Curriculum Committee (co-chair), Dept. of Architecture, University of Oregon (2022-current)
2022-23 Lectures Committee, Dept. of Architecture, University of Oregon (2022-current)
2021-24 Visioning Ad-hoc Committee, Dept. of Architecture, University of Oregon (2021-current)
2018- PhD Committee (Co-chair 2023-2024), Department of Architecture, University of Oregon (2018-current)
2022-23 Undergraduate Studies Committee, Dept. of Architecture, University of Oregon (2022-current)
2020-22 Graduate Studies Committee, Dept. of Architecture, University of Oregon (2020-2022)
2025 NTTF Search Committee, Director of Undergraduate Studies, University of Oregon (2025)
2020-21 TTF Search Committee, Mass Timber, Dept. of Architecture, University of Oregon (2020-2021)
2019-20 TTF Search Committee, Mass Timber, Dept. of Architecture, University of Oregon (2019-2020)
2018-19 John Reynolds Symposium: Education by Design, Organizing Comm., Eugene (2018-2019)
2018-19 Communications & Recruitment Committee, College of Design, Univ. of Oregon (2018-2019)

Other Service to the Department (UO):

2024-25 Design Awards Coordinator for Graduating Students, SAE, University of Oregon (2024-2025)

College Committees (UO):

2018-20 Equity & Inclusion Committee, College of Design, University of Oregon (2018-2020)
2019 Places Oregon Prize Selection Committee, College of Design, U of Oregon (2019)

University Committees (UO):

2023- Search Committee for Executive Director of the School for Computer and Data Sciences, University of Oregon

Leadership Positions (External):

2023- Associate Editor, LEUKOS – the journal of the Illuminating Engineering Society, (2023-current)
2019 General Chair of Organizing Committee, SimAUD 2019 Conference, Atlanta (2019)
2018 Scientific Chair of Organizing Committee, SimAUD 2018 Conference, Delft (2018)

Search and Scientific Committees and Juries (External):

2023 Invited Scientific Expert, Velux Daylight Academic Forum, Copenhagen (in-person) (upcoming: 2023)
2023 Annual Challenge Judge, Project Stasio (2023)
2020-21 TTF Search Committee, Sch. of Civil & Construction Eng., Oregon State Univ (2020-2021)
2018-21 Committee Member, SimAUD Steering Committee (2018-2021)
2021 Scientific Committee Member, CAAD Futures (2021)
2020-21 Scientific Committee Member, SimAUD (2015-2017, 2020-2021)
2018 Cavin Travelling Fellowship Selection Committee, Cal Poly, Pomona (2018)
2018 Scientific Committee Member, ACADIA annual conference (2018)
2018 Scholarship Committee, Society of Building Science Educators (2018)
2018 Faculty Representative, Cavin Travelling Fellowship, UO & Cal (2018)

Peer-Review Contributions:

2024 Architectural Science Review
2023 Perkins + Will Research Journal
2022-23 LEUKOS Journal (intermittent reviewer since 2022)
2018-20 Journal of Environmental Psychology (intermittent reviewer since 2018)
2017-22 Lighting Research & Technology Journal (intermittent reviewer since 2017)
2015-22 Building and Environment (intermittent reviewer since 2015)

Presentations to a Non-Scientific Audience:

2019 Simulating the Experience of Daylight in Buildings, invited presentation at OMSI Science Pub Eugene (2019)

Memberships in professional organizations

2019- Member, Society of Building Science Educators, 2019-current
2023- Associate Member, Illuminating Engineering Society, 2023-current