

CURRICULUM VITAE

Jae Yong Suk, Ph.D., IES, E.IALD, LEED-AP

A. EDUCATIONAL BACKGROUND

- **Ph.D. in Architecture** 2009-2014
University of Southern California, Los Angeles, CA
Dissertation Title: 'Absolute Glare and Relative Glare Factors: Predicting and Quantifying Levels of Interior Glare and Exterior Glare Caused by Sunlight and Daylight'
- **Master of Building Science in Architecture** 2005-2007
University of Southern California, Los Angeles, CA
- **Bachelor of Engineering in Architecture** 1996-2003
Ajou University, South Korea

B. PROFESSIONAL EMPLOYMENT HISTORY

- **Assistant Professor (Tenure-Track)** Aug. 2015-Present
Department of Architecture
The University of Texas at San Antonio
- **Daylighting Specialist / Senior Lighting Designer** 2007-2015
Horton Lees Brogden (HLB) Lighting Design, Culver City, CA
- **Researcher** 2011-2012
USC and Southern California Edison, Los Angeles, CA
- **Research Assistant** 2009-2010
University of Southern California and Buro Happold, Los Angeles, CA
- **Research Assistant / Teaching Assistant** 2005-2007
University of Southern California, Los Angeles, CA
- **Research Associate** 2003-2004
Korea Institute of Energy Research, Daejeon, South Korea

C. HONORS AND AWARDS

C.1. ACADEMIC HONORS AND AWARDS

- **College Nomination for Minnie Stevens Piper Award** Sep. 2019
The University of Texas at San Antonio, College of Architecture, Construction and Planning
- **Best Paper Award** Jun. 2019
Architectural Research Centers Consortium (ARCC) conference, Toronto, Canada
- **Best Research Development Hackathon Award** May. 2019
2019 National Workshop on Architectural Faculty in Environmental Sustainability Research (WAFES), Toronto, Canada
- **College Nomination for UTSA President's Distinguished Achievement Award (Research)** Nov. 2018
The University of Texas at San Antonio, College of Architecture, Construction and Planning
- **College Nomination for Regents' Outstanding Faculty Award** Oct. 2018
The University of Texas at San Antonio, College of Architecture, Construction and Planning
- **2018 Outstanding Contribution in Peer Review** May. 2018
Energy and Buildings Journal, Elsevier
- **The Outstanding Research/Scholarship Award** Sep. 2017
The University of Texas at San Antonio, College of Architecture, Construction and Planning
- **Best Paper Award** Jul. 2016
The 32nd Passive and Low Energy Architecture (PLEA) conference, Los Angeles, California
- **USC School of Architecture Scholarship** 2009-2014
The Robert Allen Rogaff Endowment in Honor of Frank O. Gehry, FAIA

- **King Student Medal for Excellence in Architectural & Environmental Design Research** Nov. 2013
Architectural Research Centers Consortium (ARCC)
- **Dissertation Research Scholarship** Apr. 2013
Thornton Tomasetti
- **Master of Building Science Outstanding Thesis Award** May. 2007
University of Southern California School of Architecture
- **International Graduation Award for Outstanding Academic Achievement** Apr. 2007
University of Southern California School of Architecture
- **Architectural Scholarship** 2006 -2007
JELD-WEN
- **Graduate Research Scholarship** 2005- 2007
University of Southern California School of Architecture
- **Commendation Award for Outstanding Academic Performance** 2005-2006
University of Southern California School of Architecture

C.2. PROFESSIONAL HONORS AND AWARDS

- **2018 Award of Excellence, International Association of Lighting Designers (IALD)** May. 2018
United States Courthouse – Los Angeles
- **2018 IES Illumination Award of Merit, Illuminating Engineering Society (IES)** May. 2018
United States Courthouse – Los Angeles
- **2017 Best Daylighting Project Award, Professional Lighting Design Convention (PLDC)** Nov. 2017
New Federal Courthouse – Los Angeles
- **37th Annual SOURCE Awards – Award of Recognition, Cooper Lighting** Aug. 2014
LAX Central Terminal Area Curbside Enhancement
- **2014 Architectural Lighting Design Awards, Architectural Lighting Magazine** Aug. 2014
LAX Central Terminal Area Curbside Enhancement
- **2014 IES Illumination Award of Excellence, Illuminating Engineering Society (IES)** May. 2014
LAX International Terminal Curbside Enhancement
- **AIA/LA Building Team of The Year, American Institute of Architects (AIA)** Oct. 2013
LAX: Tom Bradley International Terminal & CTA Renovation Phase 1
- **2013 IES Illumination Award of Merit, Illuminating Engineering Society (IES)** May. 2013
North Carolina AT&T State University Academic Classroom Building
- **2012 Architectural Lighting Design Awards, Architectural Lighting Magazine** Aug. 2012
Tenley Friendship Library
- **2012 IES Illumination Award of Merit, Illuminating Engineering Society (IES)** May. 2012
Tenley Friendship Library
- **2011 Architectural Lighting Design Awards, Architectural Lighting Magazine** Jul. 2011
DCPL Anacostia Neighborhood Library
- **2011 IES Illumination Award of Merit, Illuminating Engineering Society (IES)** May. 2011
1) Tom Bradley International Terminal Interior Renovation
2) Anacostia Neighborhood Public Library
3) Playa Vista Central Park
- **2009 IES Illumination Award of Merit, Illuminating Engineering Society (IES)** May. 2009
Museum of Tolerance Remodel

C.3. STUDENT HONORS AND AWARDS

- **The 43rd SOURCE Awards / Honorable Mention** Jul. 2020
Students: Melissa Santos

- Faculty Advisor: Jae Yong Suk
- **2019 IES Dallas Student Lighting Design Competition / 1st Award** Aug. 2019
Students: Melissa Santos Romo, Clarissa Perez, and Yanelly Mireles Garza
Faculty Advisor: Jae Yong Suk
 - **2019 IES Dallas Student Lighting Design Competition / 5th Award** Aug. 2019
Students: John R. Franklin, Esmirna Moya, and Danny J. Gonzalez
Faculty Advisor: Jae Yong Suk
 - **2019 IES Dallas Student Lighting Design Competition / Owner's Choice Award** Aug. 2019
Students: John R. Franklin, Esmirna Moya, and Danny J. Gonzalez
Faculty Advisor: Jae Yong Suk
 - **The 42nd SOURCE Awards / Honorable Mention** May. 2019
Students: Gabriel A. De Leon and Seyedehsaba Fatemi Abhari
Faculty Advisor: Jae Yong Suk
 - **2018 IES Dallas Student Lighting Design Competition / 5th Award** Aug. 2018
Students: Ana E. Gonzalez and Maricela L. Seye Casanova
Faculty Advisor: Jae Yong Suk
 - **The King Student Medal Award, Architectural Research Centers Consortium** May. 2018
Student: Anupam Satumane
Faculty Advisor: Jae Yong Suk

D. RESEARCH/SCHOLARLY/CREATIVE ACTIVITIES

D.1. REFEREED JOURNAL ARTICLES

- Nuez, M.A., Martinez-Monia, A., Casquero, N., and **Suk, J.Y.** 2020, 'Peer Learning in Teaching Sustainable Design', Journal of Cleaner Production, Elsevier Under Review
- **Suk, J.Y.** and Walter, R. 2019, 'New nighttime roadway lighting documentation applied to public safety at night: A case study in San Antonio, Texas', Sustainable Cities and Society, Vol.46, Elsevier. DOI: 10.1016/j.scs.2019.101459 Apr. 2019
- **Suk, J.Y.** 2019, 'Luminance and Vertical Eye Illuminance Thresholds for Occupants' Visual Comfort in Daylit Office Environments', Building and Environment, Vol. 148 p.107-115, Elsevier, SCIE. DOI: 10.1016/j.buildenv.2018.10.058 Jan. 2019
- **Suk, J.Y.**, Schiler, M. and Kensek, K. 2017, 'Reflectivity and specularly of building Envelopes: how materiality in architecture affects human visual comfort', Architectural Science Review, Vol. 60 p.256-265, Taylor and Francis, SCIE. DOI: 10.1080/00038628.2017.1336981 Jun. 2017
- **Suk, J.Y.**, Schiler, M. and Kensek, K. 2017, 'Investigation of Existing Discomfort Glare Indices using Human Subject Study Data', Building and Environment Vol. 113 p.121-130, Elsevier, SCIE. DOI: 10.1016/j.buildenv.2016.09.018 Feb. 2017
- **Suk, J.Y.**, Schiler, M. and Kensek, K. 2016, 'Absolute Glare Factor and Relative Glare Factor Based Metric: Predicting and Quantifying Levels of Daylight Glare in Office Space', Energy and Buildings Vol. 130 p.8-19, Elsevier, SCIE. DOI: 10.1016/j.enbuild.2016.08.021 Oct. 2016
- **Suk, J.Y.**, Schiler, M. and Kensek, K. 2013, 'Development of New Daylight Glare Analysis Methodology using Absolute Glare Factor and Relative Glare Factor', Energy and Buildings Vol. 64 p. 113-122, Elsevier, SCIE. DOI: 10.1016/j.enbuild.2013.04.020 Sep. 2013
- **Suk, J.Y.** and Schiler, M. 2013, 'Investigation of Evalglare software, daylight glare probability and high dynamic range imaging for daylight glare analysis', Lighting Research and Technology Vol. 45 no. 4 p. 450-463, SAGE, SCIE. DOI: 10.1177/1477153512458671 Aug. 2013

- Kensek, K. and **Suk, J.Y.** 2011, 'Difference between Daylight Factor (overcast sky) and Daylight Availability (clear sky) in Computer-based Daylighting Simulations', Journal of Creative Sustainable Architecture & Built Environment (CSABE), Volume1 Nov. 2011

D.2. REFEREED CONFERENCE PROCEEDINGS

- **Suk, J.Y.**, Rashed-Ali, H., and Martinez-Molina, A. 2020, 'Daylighting and Electric Lighting POE Study of a LEED Gold Certified Office Building', 2020 EAAE-ARCC International conference, Valencia, Spain Accepted
- Martinez-Molina A., **Suk, J.Y.**, and Rashed-Ali, H. 2020, 'Indoor environmental analysis of a LEED gold-certified office building in ASHRAE climate Zone 6', 2020 EAAE-ARCC International conference, Valencia, Spain Accepted
- **Suk, J.Y.** and Sung, D. 2020, 'INVERT AUTO-SHADING WINDOWS: Daylighting Performance And Visual Comfort Analysis of Dynamic Thermostatic Bimetal Shading', the 2020 Façade Tectonics World Congress, Los Angeles, CA Aug. 2020
- **Suk, J.Y.** 2019, 'Can Hourly-based Annual Daylighting Simulations Predict Daylight Availability in Dynamic Sky?', 2019 Architectural Research Centers Consortium (ARCC) International conference, Toronto, Canada May 2019
- **Suk, J.Y.** and Walter, R. 2018, 'Street Lighting and Public Safety: New Nighttime Lighting Documentation Methodology', 2018 ARCC-EAAE International conference, Philadelphia, PA May 2018
- Satumane, A. and **Suk, J.Y.** 2018, 'Impacts of Vertical Greening System (VGS) on Daylight Quantity and Quality in Buildings', 2018 ARCC-EAAE International conference, Philadelphia, PA May 2018
- Kamal, A. and **Suk, J.Y.** 2018, 'Can Environmental Design and Street Light's Retrofit Affect Crime Trends in San Antonio?', 2018 ARCC-EAAE International conference, Philadelphia, PA May 2018
- **Suk, J.Y.** and Zambrano, H. 2018, 'DAYLIGHTING POST-OCCUPANCY EVALUATION STUDY: Baylor University Paul L. Foster Campus for Business and Innovation', the 2018 Façade Tectonics World Congress, Los Angeles, CA Mar. 2018
- **Suk, J.Y.** 2017, 'Evaluating Daylight Glare and Identifying Its Dominant Cause in Computer-Based Office Task Environment', the Building Simulation 2017 conference held by International Building Performance Simulation Association (IBPSA), San Francisco, CA Aug. 2017
- **Suk, J.Y.**, Schiler, M. and Kensek, K. 2016, 'DISCOMFORT GLARE METRICS: Investigating their accuracy and consistency in daylight glare evaluation by using human subject study data', the Façade Tectonics World Congress, Los Angeles, CA Oct. 2016
- **Suk, J.Y.**, Schiler, M. and Kensek, K. 2016, 'Is Exterior Glare Problematic?: Investigation on Visual Discomfort Caused by Reflected Sunlight on Specular Building Facades', the 32nd Passive and Low Energy Architecture (PLEA), Los Angeles, CA Jul. 2016
- Lin E., **Suk, J.Y.** and Chiu, S. 2016, 'Tensile Membrane Facade: Definition of Optical Properties in Daylighting Simulation and its Performance Impact', the 32nd Passive and Low Energy Architecture (PLEA), Los Angeles, CA Jul. 2016
- **Suk, J.Y.**, Schiler, M. and Kensek, K. 2007, 'Post-Treatment Analysis of the Glare Remediation of the Walt Disney Concert Hall', the American Solar Energy Society conference, Cleveland, OH Jul. 2007
- **Suk, J.Y.** and Schiler, M. 2007, 'Interior Glare Problems of Watt Hall 3rd Floor in University of Southern California', the American Solar Energy Society conference, Cleveland, OH Jul. 2007
- **Suk, J.Y.** and Schiler, M. 2007, 'Thermal Comfort Performance Tests of USC' Three Libraries Using Dataloggers', the American Solar Energy Society conference, Cleveland, OH Jul. 2007

D.3. CREATIVE WORKS – BUILT ARCHITECTURE PROJECTS (SELECTED)

- **New United States Courthouse – Los Angeles** 2017
 - Role: Daylighting Specialist
 - Architect: Skidmore, Owing and Merrill
- **LAX – Tom Bradley International Terminal Curbside Enhancement** 2015
 - Role: Senior Lighting Designer
 - Architect: AECOM
- **Los Angeles International Airport** 2013
 - Role: Senior Lighting Designer
 - Architect: Fentress Architects
- **North Carolina AT&T State University Academic Classroom Building** 2011
 - Role: Senior Lighting Designer
 - Architect: The Freelon Group
- **Playa Vista Central Park, Los Angeles** 2010
 - Role: Senior Lighting Designer
 - Architect: Michael Maltzan Architecture
- **Anacostia Neighborhood Library, Washington DC.** 2010
 - Role: Daylighting Specialist / Senior Lighting Designer
 - Architect: The Freelon Group
- **Tenley-Friendship Neighborhood Library, Washington DC.** 2010
 - Role: Daylighting Specialist / Senior Lighting Designer
 - Architect: The Freelon Group
- **LAX – Tom Bradley International Terminal Interior Renovation** 2010
 - Role: Lighting Designer
 - Architect: Leo A. Daly
- **LAPD Headquarters, Los Angeles** 2009
 - Role: Lighting Designer
 - Architect: AECOM
- **Museum of Tolerance, Los Angeles** 2008
 - Role: Lighting Designer
 - Architect: Yazdani Studio of Cannon Design

E. SCHOLARLY PRESENTATIONS

E.1. REFEREED CONFERENCE PRESENTATIONS

- **Suk, J.Y.** and Sung, D. 2020, 'INVERT AUTO-SHADING WINDOWS: Daylighting Performance And Visual Comfort Analysis of Dynamic Thermostatic Bimetal Shading', the 2020 Façade Tectonics World Congress, Los Angeles, CA Aug. 2020
- **Suk, J.Y.** 2019, 'Can Hourly-based Annual Daylighting Simulations Predict Daylight Availability in Dynamic Sky?', 2019 Architectural Research Centers Consortium (ARCC) International conference, Toronto, Canada May 2019
- **Suk, J.Y.** and Walter, R. 'Street Lighting and Public Safety: New Nighttime Lighting Documentation Methodology', 2018 ARCC-EAAE International conference, Philadelphia, PA May 2018
- **Kamal, A.** and **Suk, J.Y.** 'CAN ENVIRONMENTAL DESIGN AND STREET LIGHTS' RETROFIT AFFECT CRIME TRENDS IN SAN ANTONIO?', 2018 ARCC-EAAE International conference, Philadelphia, PA May 2018

- Satumane, A. and **Suk, J.Y.** 'Impacts of Vertical Greening System (VGS) on daylight quantity and quality in buildings', 2018 ARCC-EAAE International conference, Philadelphia, PA May 2018
- **Suk, J.Y.**, and Zambrano, H. 'DAYLIGHTING POST-OCCUPANCY EVALUATION STUDY: Baylor School of Business Building in Waco, TX', for the 2018 Façade Tectonics World Congress, Los Angeles, CA Mar. 2018
- **Suk, J.Y.** 2017, 'Evaluating Daylight Glare and Identifying Its Dominant Cause in Computer-Based Office Task Environment', the Building Simulation 2017 conference held by International Building Performance Simulation Association (IBPSA), San Francisco, CA Aug. 2017
- **Suk, J.Y.**, Schiler, M. and Kensek, K. 2016, 'DISCOMFORT GLARE METRICS: Investigating their accuracy and consistency in daylight glare evaluation by using human subject study data', the Façade Tectonics World Congress, Los Angeles, CA Oct. 2016
- **Suk, J.Y.**, Schiler, M. and Kensek, K. 2016, 'Is Exterior Glare Problematic?: Investigation on Visual Discomfort Caused by Reflected Sunlight on Specular Building Facades', the 32nd Passive and Low Energy Architecture (PLEA), Los Angeles, CA Jul. 2016
- Lin E., **Suk, J.Y.** and Chiu, S. 2016, 'Tensile Membrane Facade: Definition of Optical Properties in Daylighting Simulation and its Performance Impact', the 32nd Passive and Low Energy Architecture (PLEA), Los Angeles, CA Jul. 2016
- **Suk, J.Y.** 2016, 'Interior and Exterior Glare: visual discomfort inside and outside building envelopes', the Façade Tectonics Forum in San Antonio, TX Apr. 2016
- **Suk, J.Y.** and Aghassian T. 2012, 'Illuminating Architectural Textile Membrane Structure: Playa Vista Central Park Bandshell Lighting Design Project', USC Façade Tectonics Textile Workshop, Los Angeles, CA Sep. 2012
- **Suk, J.Y.**, Schiler, M. and Kensek, K. 2007, 'Post-Treatment Analysis of the Glare Remediation of the Walt Disney Concert Hall', American Solar Energy Society conference, Cleveland, OH Jul. 2007
- **Suk, J.Y.** and Schiler, M. 2007, 'Interior Glare Problems of Watt Hall 3rd Floor in University of Southern California', American Solar Energy Society conference, Cleveland, OH Jul. 2007
- **Suk, J.Y.** and Schiler, M. 2007, 'Thermal Comfort Performance Tests of USC' Three Libraries Using Dataloggers', American Solar Energy Society conference, Cleveland, OH Jul. 2007

E.2. INVITED PRESENTATIONS

- **Suk, J.Y.** 2018, 'Nighttime Lighting in Built Environment: Energy, Comfort and Safety', Illuminating Engineering Society (IES) San Antonio Chapter Meeting, San Antonio, TX Feb. 2018
- **Suk, J.Y.** 2016, 'Daylighting and Discomfort Glare in Built Environments', Lake Flato Architects, San Antonio, TX May. 2016

E.3. NON-REFEREED PRESENTATIONS

- **Suk, J.Y.** 2018, 'Street Lighting and Public Safety: Investigation of Nighttime Lighting Conditions in Downtown San Antonio', UTSA Department of Architecture, San Antonio, TX Feb. 2018
- **Suk, J.Y.** 2017, 'Is Exterior Glare Problematic?: Investigation on Visual Discomfort Caused by Reflected Sunlight on Specular Building Facades', UTSA College of Architecture, Construction and Planning Faculty Research Symposium, San Antonio, TX Mar. 2017
- **Suk, J.Y.** 2016, 'Daylight Glare: Visual Discomfort inside and outside Building Envelopes', Façade Tectonics Forum in San Antonio, San Antonio, TX Apr. 2016
- **Suk, J.Y.** 2016, 'Investigation on Existing Discomfort Glare Indices based on Human Subject Study', UTSA College of Architecture, Construction and Planning Faculty Research Symposium, San Antonio, TX Feb. 2016

F. GRANTING ACTIVITIES

F.1. EXTERNAL GRANTS – FUNDED

- **Nuckolls Fund - The Year 2017 Lesley Wheel Introductory Lighting Program Grant** May 2017-Present
 - Title: *Development of New Lighting Design Course at UTSA Department of Architecture*
 - Role: Principal Investigator
 - Funding Amount: \$20,000
 - Funding Period: 5/4/2017 – 5/3/2021

F.2. INSTITUTIONAL GRANTS - FUNDED

- **UTSA Internal Research Awards (INTRA) Program** Jun. 2018
 - Title: *Investigation of Electric Lighting Energy Savings by Daylight Harvesting in Dynamic Sky Condition*
 - Role: Principal Investigator
 - Funding Amount: \$5,000
 - Funding Period: 9/1/2018 – 8/31/2019
- **UTSA Grants for Research Advancement and Transformation (GREAT) Program** Aug. 2017
 - Title: *Investigation of Street Lighting's Physical Characteristics and Their Impacts on Public Safety at Night*
 - Role: Principal Investigator
 - Funding Amount: \$20,000
 - Funding Period: 9/1/2017 – 8/31/2018
- **UTSA Internal Research Awards (INTRA) Program** Jul. 2016
 - Title: *Development of Shading Control Algorithm for Enhanced Occupant's Thermal and Visual Comfort in Buildings*
 - Role: Principal Investigator
 - Funding Amount: \$5,000
 - Funding Period: 9/1/2016 – 8/31/2017

F.3. CONTRACTS – FUNDED

- **Post Occupancy Evaluation of Overland Partners Projects** Feb. 2019
 - Role: Co-PI (PI: Hazem Rashed-Ali)
 - Funding Amount: \$23,000
 - Funding Period: 3/1/2019 – 11/31/2019
- **The City of San Antonio - Under 1 Roof Home Energy Assessment** Dec. 2017
 - Role: Co-PI (PI: Hazem Rashed-Ali)
 - Funding Amount: \$15,000
 - Funding Period: 1/1/2018 – 3/31/2019

F.4. TRAVEL GRANTS – FUNDED

- **2020-21 UTSA CACP Faculty Travel Grant** Nov. 2020
 - Conference: 2020 EAAE-ARCC International Conference in Valencia, Spain
 - Travel Date: 11/11/2020 – 11/14/2020 (will be virtually held due to the pandemic)
 - Amount: \$2,301
- **2019-20 UTSA CACP Faculty Travel Grant** Aug. 2020
 - Conference: 2020 Façade Tectonics World Congress in Los Angeles
 - Travel Date: 8/5/2020 – 8/26/2020 (virtually held due to the pandemic)
 - Amount: \$2,000

- **2020 International Association of Lighting Designers (IALD) Education Trust Travel Fellowship** May 2020
 - Travel Date: 5/4/2020 – 5/7/2020 (canceled due to the pandemic)
 - Amount: \$1,000
- **NSF-funded Architectural Faculty in Environmental Sustainability Research Travel Fellowship** May 2019
 - Workshop: National Science Foundation workshop In Toronto, Canada
 - Travel Date: 5/27/2019 – 5/29/2019
 - Amount: \$1,000
- **2018-19 UTSA CACP Faculty Travel Grant** Feb. 2019
 - Conference: 2019 Architectural Research Centers Consortium conference in Toronto
 - Travel Date: May. 17, 2019
 - Amount: \$2,000
- **2017-18 UTSA CACP Faculty Travel Grant** Dec. 2017
 - Conference: 2018 Façade Tectonics World Congress in Los Angeles
 - Travel Date: Mar. 11, 2018
 - Amount: \$1,150

F.5. EXTERNAL GRANTS – UNDER REVIEW

- **National Science Foundation (NSF) CAREER Program** Aug. 2020
 - Title: *Investigating the Influences of LED Street Lighting physical Characteristics on Nighttime Traffic Safety*
 - Role: Principal Investigator
 - Funding Amount Requested: \$493,295
- **CENTRO Shade Project** (the project is on hold due to the pandemic.) Jan. 2020
 - Title: *Shade Study for San Antonio's Public Improvement District*
 - Role: Principal Investigator
 - Funding Amount Requested: \$49,713

F.6. EXTERNAL GRANTS – NOT FUNDED

- **UTSA Grants for Research Advancement and Transformation (GREAT) Program** Apr. 2020
 - Title: *Energy Efficiency and Occupant Health in Historic Residential Buildings in San Antonio: the PassivHaus Approach*
 - Role: Co-PI (PI: Antonio Martinez-Molina)
 - Funding Amount: \$20,000
- **The Year 2020 Jeffrey A. Milham Catalyst Grant** Nov. 2019
 - Title: *Lighting Design in Building Information Modeling and Virtual Reality*
 - Role: Principal Investigator
 - Funding Amount Requested: \$50,000
- **National Science Foundation (NSF) CAREER Program** Jul. 2019
 - Title: *Investigating the Influences of LED Street Lighting on Nighttime Traffic Safety*
 - Role: Principal Investigator
 - Funding Amount Requested: \$491,195
- **2019 American Institute of Architects (AIA) Upjohn Research Initiative** Aug. 2019
 - Title: *Indoor Environmental Quality (IEQ) Monitoring with 3D Indoor Localization and Mapping for Building Performance Evaluation and Optimization*
 - Role: Principal Investigator
 - Funding Amount Requested: \$20,000
- **2019 American Institute of Architects (AIA) Upjohn Research Initiative** Aug. 2019
 - Title: *Affordable Sustainable Positive Energy Smart Container House: Design and Construction*
 - Role: Co-PI (PI: Antonio Martinez-Molina)

- Funding Amount Requested: \$27,700
- **2019 San Antonio Area Foundation Community-at-Large Grant** Jul. 2019
 - Title: *Interactive Lighting Map of San Antonio for Safety and Well-being*
 - Role: Principal Investigator
 - Funding Amount Requested: \$60,000
- **2018 American Institute of Architects (AIA) Latrobe Prize** Oct. 2018
 - Title: *Indoor Positioned Environmental Quality Monitoring and Optimization with BIM Interoperability*
 - Role: Principal Investigator
 - Funding Amount Requested: \$100,000
- **2018 American Institute of Architects (AIA) Upjohn Research Initiative** Aug. 2018
 - Title: *Indoor Environmental Quality Monitoring with 3D Indoor Localization and Mapping*
 - Role: Principal Investigator
 - Funding Amount Requested: \$30,000
- **2018 San Antonio Area Foundation Community-at-Large Grant** Jul. 2018
 - Title: *Interactive Lighting Map of Downtown San Antonio*
 - Role: Principal Investigator
 - Funding Amount Requested: \$20,000
- **2017 San Antonio Area Foundation Community-at-Large Grant** Jul. 2017
 - Title: *Interactive Lighting Map of San Antonio*
 - Role: Principal Investigator
 - Funding Amount Requested: \$20,000
- **Korean-American Scientists and Engineers Association (KSEA) Young Investigator Grant** Dec. 2016
 - Title: *Human-Centered Lighting and Shading Control Algorithm for Enhanced Electrical Lighting Energy Saving and Occupant Visual Comfort in Buildings*
 - Role: Principal Investigator
 - Funding Amount Requested: \$10,000
- **2016 San Antonio Area Foundation Community-at-Large Grant** Jul. 2016
 - Title: *The San Antonio River Walk Nighttime Lighting Environment Evaluation and Improvement Project*
 - Role: Principal Investigator
 - Funding Amount Requested: \$15,774
- **The Robert Wood Johnson Foundation - Policies for Action** Mar. 2016
 - Title: *Evaluating and Improving Nighttime Street Lighting Environment for Enhanced Public Safety and Well-being in Underserved Communities*
 - Role: Principal Investigator
 - Funding Amount Requested: \$250,000
- **The Robert Wood Johnson Foundation - Policies for Action** Mar. 2016
 - Title: *Health Risk-based Community Design Maturity Model for Children in Underserved Communities*
 - Role: Co-PI (PI: Rahman Azari)
 - Funding Amount Requested: \$250,000
- **2015 American Institute of Architects (AIA) Upjohn Research Initiative** Jan. 2016
 - Title: *School Design, Environmental Performance and Educational Quality*
 - Role: Co-PI (PI: Hazem Rashed-Ali)
 - Funding Amount Requested: \$30,000

- **Oak Ridge Associated Universities (ORAU) Ralph E. Powe Junior Faculty Award** Jan. 2016
 - Title: *Human-Centered Lighting and Shading Control System for Enhanced Daylighting and Visual Environment in Office Buildings*
 - Role: Principal Investigator
 - Funding Amount Requested: \$10,000

F.7. INSTITUTIONAL GRANTS – NOT FUNDED

- **UTSA Connecting Researchers through Partnerships (CONNECT) Program** Mar. 2016
 - Title: *Tangible and Intangible Heritage Values: Use of Materials and Natural Light in the Spanish Colonial Missions of San Antonio*
 - Role: Co-PI (PI: Angela Lombardi)
 - Funding Amount Requested: \$50,000

G. TEACHING ACTIVITIES

G.1. CORE AND ELECTIVE COURSES

SUMMER 2020

- ARC 4183 Environmental Systems (UG): 31 students
 - Asynchronous online
 - Faculty evaluation: N/A, Course evaluation: N/A

SPRING 2020

- ARC 4183/5953 Environmental Systems (UG/GR): 39 students
 - Hybrid Online (synchronous + asynchronous)
 - Faculty evaluation: N/A, Course evaluation: N/A (Due to the pandemic)
- ARC 4143/6973 Architectural Lighting Design (UG/GR): 19 students
 - Hybrid Online (synchronous + asynchronous)
 - Faculty evaluation: N/A, Course evaluation: N/A (Due to the pandemic)
- ARC 4913 Independent Study (UG): Norma Cardenas-Flores
 - Investigation of Sustainable Building Standards

FALL 2019

- ARC 4183 Environmental Systems (UG): 41 students
 - Faculty evaluation: 4.39/5.0, Course evaluation: 4.42/5.0
- ARC 3433/5753 Advanced Daylighting Design and Analysis (UG/GR): 18 students
 - Faculty evaluation: 4.31/5.0, Course evaluation: 4.31/5.0

SUMMER 2019

- ARC 4913 Independent Study (UG): Eric J. Merlo
 - Daylighting Design Analysis of Ruby City in San Antonio, TX

SPRING 2019

- ARC 4183/5953 Environmental Systems (UG/GR): 38 students
 - Faculty evaluation: 4.53/5.0, Course evaluation: 4.44/5.0
- ARC 4143/6973 Architectural Lighting Design (UG/GR): 11 students
 - Faculty evaluation: 4.71/5.0, Course evaluation: 4.57/5.0

FALL 2018

- ARC 4183 Environmental Systems (UG): 53 students
 - Faculty evaluation: 4.44/5.0, Course evaluation: 4.34/5.0
- ARC 3433/5753 Advanced Daylighting Design and Analysis (UG/GR): 18 students
 - Faculty evaluation: 4.79/5.0, Course evaluation: 4.57/5.0
- ARC 6983 Master's Thesis (GR): Anupam Satumane

SUMMER 2018

- ARC 4913 Independent Study (UG): Tiffany Vargas
 - Eco-Hotel in Galveston, TX

SPRING 2018

- ARC 2233/5943 Principles of Environmental Systems (UG): 33 students
 - Faculty evaluation: 4.45/5.0, Course evaluation: 4.38/5.0
- ARC 4143/6973 Architectural Lighting Design (UG/GR): 14 students
 - Faculty evaluation: 4.75/5.0, Course evaluation: 4.67/5.0
- ARC 6983 Master's Thesis (GR): Anupam Satumane

FALL 2017

- ARC 2233/5943 Principles of Environmental Systems (UG): 24 students
 - Faculty evaluation: 4.52/5.0, Course evaluation: 4.48/5.0
- ARC 3433/5163 Daylighting Simulations and Design (GR): 9 students
 - Faculty evaluation: 4.50/5.0, Course evaluation: 4.25/5.0
- ARC 6983 Master's Thesis Preparation (GR): Anupam Satumane
- ARC 6951 Independent Study (GR): Maitreyee Satia
 - Master's Project Proposal
- ARC 6953 Independent Study (GR): Anupam Satumane
 - Impacts of Vertical Greening System (VGS) on daylight quantity and quality in buildings

SPRING 2017

- ARC 2233/5943.901 Principles of Environmental Systems (UG): 35 students
 - Faculty evaluation: 4.50/5.0, Course evaluation: 4.53/5.0
- ARC 2233.902 Principles of Environmental Systems (UG): 35 students
 - Faculty evaluation: 4.16/5.0, Course evaluation: 4.03/5.0
- ARC 6323 Master's Thesis Preparation (GR): Anupam Satumane

FALL 2016

- ARC 3433/5163 Daylighting Simulations and Design (GR): 17 students
 - Faculty evaluation: 4.59/5.0, Course evaluation: 4.47/5.0
- ARC 2233/5943 Principles of Environmental Systems (UG): 39 students
 - Faculty evaluation: 4.43/5.0, Course evaluation: 4.43/5.0
- ARC 6953 Independent Study (GR): Anupam Satumane
 - An Examination of Theories and Methods in Architectural Research

SUMMER 2016

- ARC 6953 Independent Study (GR): Krishna Tamrakar
 - Daylight Analysis on Library Park in Kathmandu, Nepal
- ARC 6953 Independent Study (GR): Pejman Ebrahimi
 - Daylight Performance by using Diva for Rhino to simulate amount of natural sunlight based on the proposed design

SPRING 2016

- ARC 1223 Design II (UG): 13 students
 - Faculty evaluation: 3.63/5.0, Course evaluation: 3.50/5.0
- ARC 2233 Principles of Environmental Systems (UG): 36 students
 - Faculty evaluation: 3.26/5.0, Course evaluation: 3.35/5.0
- ARC 6953 Independent Study (GR): Angela Garcia
 - Evaluating potential benefits of glass replacements: The Mid Century Intercontinental Motor Building in San Antonio, Texas

FALL 2015

- ARC 2233/5943 Principles of Environmental Systems (UG): 26 students
 - Faculty evaluation: 3.79/5.0, Course evaluation: 3.71/5.0

G.2. THESIS COMMITTEE

- **M.S. in Architecture Thesis Committee chair**
 - Anupam Satumane (graduated in December 2018)
- **M.S. in Architecture Thesis Committee Member**
 - Saba Fatemi
 - Yogesh Kanjee
 - Muharrem Kaya
 - Mohamed Abo Issa (graduated in May 2018)
- **Mater of Architecture Thesis Advisor**
 - Clinton Thorp (expected to graduate in 2020)
 - Nathan B. Flores (graduated in May 2019)
 - Maitreyee Satia (graduated in May 2018)
 - Sarah Lutze (graduated in May 2018)

G.3. POSTDOCTORAL SCHOLAR MENTORSHIP

- **Postdoctoral Scholar**
 - Alireza Janahara (from August 2019 to present)

H. SERVICE ACTIVITIES

H.1. DEPARTMENT LEVEL SERVICE

- Graduate Advisor of Records (M.Arch and M.S.Arch) Jul. 2020-Present
- Coordinator, Ph.D. in Civil Engineering Building Performance Track Nov. 2019-Present
- Graduate Application Review Committee Member (M.S. in Architecture) Aug. 2019-Present
- Curriculum Committee Member Aug. 2017-Present
- Graduate Program Committee Member Aug. 2015-Present
- 2019 Annual Review Committee Member Dec. 2019- Present
- Technology Committee Chair Aug. 2017-May 2020
- 2018 Annual Review Committee Member Nov. 2018- Feb.2019
- 2017 Annual Review Committee Member Dec. 2017-Feb.2018
- Annual Review Evaluation Task Force Dec. 2017- Feb.2018
- Graduate Application Review Committee Member Aug. 2015-May 2018
- Faculty Search Committee Member Aug. 2017-Feb. 2018
- Technology Committee Member Aug. 2015-May 2017

H.2. COLLEGE LEVEL SERVICE

- CACP Ph.D. Committee Member Dec. 2017-Present
- Distinguished Alumni Awards Committee Member Jan. 2017-Present

H.3. UNIVERSITY LEVEL SERVICE

- University Scholarship Committee Aug. 2019-Present
- 2020 Grants for Research Advancement and Transformation (GREAT) SEED Grant Program Review Committee Member Apr. 2019-Jun. 2019
- Sustainable Initiatives Review Committee Member Jan. 2019-Mar. 2019

- 2019 Grants for Research Advancement and Transformation (GREAT) SEED Grant Program Review Committee Member Apr. 2018-June.2018

H.4. OUTREACH AND COMMUNITY SERVICE

- Dark Sky Policy Evaluation Working Group Member Jan. 2017-May 2018
 - Office of Sustainability, City of San Antonio
- Chairperson Apr. 2016
 - Façade Tectonics Forum in San Antonio

H.5. ACADEMIC/PROFESSIONAL SERVICE

- Invited Grant Program Reviewer March -April 2020
 - University of Southern California
- Daylighting Committee Member Aug. 2015-Present
 - Illuminating Engineering Society (IES)
- IES San Antonio Chapter Board of Manager Aug. 2018-Present
 - Illuminating Engineering Society (IES)
- BTES Faculty Liaison for UTSA Nov. 2018-Present
 - Building Technology Educators' Society (BTES)
- Daylight Metrics Committee Member Aug. 2015-Jan. 2019
 - Illuminating Engineering Society (IES)
- 2020 National Illumination Award Judge Feb. 2020-Present
 - Illuminating Engineering Society (IES)
- 2019 National Illumination Award Judge Mar. 2019-May 2019
 - Illuminating Engineering Society (IES)
- 2018 National Illumination Award Judge Mar. 2018-May 2018
 - Illuminating Engineering Society (IES)
- 2017 National Illumination Award Judge Apr. 2017-May 2017
 - Illuminating Engineering Society (IES)
- Scientific Committee Member Aug. 2015-Present
 - 2020 Façade Tectonics World Congress in Los Angeles
 - 2019 IIT-ARCC Ph.D. Symposium in Chicago
 - 2018 Passive and Low Energy Architecture (PLEA) conference in Hong Kong
 - 2018 Façade Tectonics World Congress in Los Angeles
 - 2016 Passive and Low Energy Architecture (PLEA) conference in Los Angeles
 - 2016 Façade Tectonics World Congress in Los Angeles
- Journal Reviewer Aug. 2015-Present
 - Applied Energy journal, Elsevier
 - Energy and Buildings journal, Elsevier
 - Building and Environment journal, Elsevier
 - Sustainable Cities and Society journal, Elsevier
 - Journal of Technology | Architecture + Design, Taylor and Francis
 - Leukos journal, Taylor and Francis
 - Indoor and Built Environment, SAGE
- Conference Proceeding Reviewer Aug. 2015-Present
 - Architectural Research Center Consortium (ARCC) 2019 conference in Toronto
 - Façade Tectonics World Congress 2018 conference in Los Angeles
 - Architectural Research Center Consortium (ARCC) 2018 conference in Philadelphia
 - Passive and Low Energy Architecture (PLEA) 2017 conference in Edinburgh
 - IBPSA Building Simulations 2017 conference

- Architectural Research Center Consortium (ARCC) 2017 conference in Utah
- Passive and Low Energy Architecture (PLEA) 2016 conference in Los Angeles
- Façade Tectonics World Congress 2016 conference in Los Angeles

H.6. PROFESSIONAL AFFILIATIONS

- LEED Accredited Professional, U.S. Green Building Council
- Educator Member of International Association of Lighting Designers (IALD)
- Member of Illuminating Engineering Society (IES)
- Member of Society of Building Science Educators (SBSE)
- Member of Building Technology Educators Society (BTES)
- Member of Korean-American Scientists and Engineers Association (KSEA)
- National Qualified Architectural Engineer, Human Resources Development Service of Korea
- Member of Phi Kappa Phi