

## Curriculum Vitae



**Dr Michael Kent**

Research Fellow

School of Business

Tel : +65 6240 8961

### Education Qualifications

- |             |   |
|-------------|---|
| 2013 - 2016 | Doctorate of Philosophy (PhD), Sustainable Energy Technologies.                                     |
| 2011 - 2012 | Master degree in science, Renewable Energy and Architecture, The University of Nottingham           |
| 2008 - 2011 | Bachelor's degree in arts with honours, Sustainable Built Environment, The University of Nottingham |

### Academic and Professional Experience

- |             |   |
|-------------|---|
| 2024 - now  | André Hoffmann Fellow and Lecturer for FMT 409 Renewable Energy Systems, Singapore University of Social Sciences                                |
| 2018 - 2023 | Postdoctoral Research Fellow, SinBerBEST, Berkeley Education Alliance for Research in Singapore (Singapore), University of California, Berkeley |
| 2016 - 2018 | EPSRC Research Fellow, the University of Nottingham   |
| 2013 - 2017 | Teaching and Design Studio Assistant, the University of Nottingham  |

### Memberships and Professional Activities

- |      |  |
|------|--|
| 2022 | Member of the Society of Light and Lighting (MSLL), Charter Institute of Building Services Engineers, United Kingdom |
| 2021 | WELL AP, International WELL Building Institute, United States  |
| 2021 | BREEAM Associate, Building Research Establishment, United Kingdom  |

## Research Interests

I have a wide range of research interests that revolve around building sustainability and human-centred design. This also includes utilising unique research methods (e.g., virtual reality) and combining them with advanced analytical techniques (e.g., machine-learning). The areas of research that I am most active in can be categorised as follows:

- Indoor Environmental Quality
- Daylighting and Lighting
- Thermal and Visual Comfort
- Health, Comfort and Wellbeing
- Sustainable Architecture
- Energy-Efficient Buildings
- Architectural Engineering
- Green Buildings

## Selected Publications

- **Kent MG**, Khoa Huynh N, Kumar Mishra A, Tartarini F, Lipczynska A, Li J, Sultan Z, Goh E, Karunagaran G, Natarajan A, Indrajith A, Narendra KI, Wu V, Chin N, Gao CP, Sapar M, Seoh A, Shuhadah N, Valliappan S, Jukes T, Spanos C and Schiavon S, 2023. Energy Savings and Thermal Comfort in a Zero Energy Office Building with Fans in Singapore, 2023. *Building and Environment*, 243: 110674 (IF 2023: N/A) <http://dx.doi.org/10.2139/ssrn.4480684>
- Abd-Alhamid F, **Kent MG** and Wu Y, 2023. The Assessment of Window Size and Layout Impact on a View Quality Perception in a Virtual Reality Environment. *LEUKOS: The Journal of the Illuminating Engineering Society*. <https://doi.org/10.1080/15502724.2023.2262148>
- Abdelwahab S, **Kent MG** and Mayhoub M, 2023. Users' Window Preferences and Motivations of Shading Control: Influence of Cultural Characteristics. *Building and Environment*. 240: 110455 (IF 2023: N/A) <https://doi.org/10.1016/j.buildenv.2023.110455>
- Ko W, Schiavon S, Santo S, **Kent MG**, Kim H and Keshavarzi M, 2023. View Access Index: The effects of geometric variables on window views on occupants' satisfaction. *Building and Environment*. 234: 110132 (IF 2023: N/A) <https://doi.org/10.1016/j.buildenv.2023.110132>
- Abd-Alhamid F, **Kent MG** and Wu Y, 2022. Quantifying window view quality: A review on view perception assessment and representation methods. *Building and Environment*, 227 (Part 2): 109742 (IF 2022: 7.093) <https://doi.org/10.1016/j.buildenv.2022.109742>
- **Kent MG**, Khoa Huynh N, Schaivon S and Selkowitz S, 2022. Using support vector machine to detect desk illuminance sensor blockage for closed-loop daylight harvesting. *Energy and Buildings*, 27: 112443 (IF 2022: 7.021) <https://doi.org/10.1016/j.enbuild.2022.112443>
- **Kent MG** and Schiavon S, 2022. Predicting window view preferences using the environmental information criteria. *LEUKOS: The Journal of the Illuminating Engineering Society* (IF 2022: 4.235) <https://doi.org/10.1080/15502724.2022.2077753>

- Kim J, **Kent MG**, Kral K and Dogan T, 2022. Seemo: A new tool for early design window view satisfaction evaluation in residential buildings. *Building and Environment*, 214: 108909 (IF 2022: 7.093) <https://doi.org/10.1016/j.buildenv.2022.108909>
- **Kent MG** and Jakubiec JA, 2021. An examination of range effects when evaluating discomfort due to glare in Singaporean buildings. *Lighting Research and Technology*, 54(6): 514-528 (IF 2021: 2.767) <https://doi.org/10.1177/14771535211047220>
- Ko W, Schiavon S, Altomonte S, Andersen M, Batool A, Browning W, Burrell G, Chamilothoni K, Chan YC, Chinazzo G, Christoffersen J, Clanton N, Connock C, Dogan T, Faircloth B, Fernandes L, Heschong L, Houser KW, Inanici M, Jakubiec JA, Joseph A, Karmann C, **Kent MG**, Konis K, Konstantzos I, Lagios K, Lam L, Lam F, Lee E, Levitt B, Li W, MacNaughton P, Ardakan AM, Mardaljevic J, Matusiak B, Osterhaus W, Petersen S, Piccone M, Pierson C, Protzman B, Rakha T, Reinhart C, Rockcastle S, Samuelson H, Santos L, Sawyer A, Selkowitz S, Sok E, Strømmandersen J, Sullivan WC, Turan I, Unnikrishnan G, Vicent W, Weissman D and Wienold J, Window view quality: Why it matters and what we should do. *LEUKOS: The Journal of the Illuminating Engineering Society*, 18(3): 259-267 (IF 2021: 3.441) <https://doi.org/10.1080/15502724.2022.2055428>
- Ko W, **Kent MG**, Schiavon S, Levitt B and Betti G, 2021. A window view quality assessment framework. *LEUKOS: The Journal of the Illuminating Engineering Society*, 18(3): 268-293 (IF 2021: 3.441) <https://doi.org/10.1080/15502724.2021.1965889>
- **Kent MG**, Parkinson T, Kim J and Schiavon S, 2021. A data-driven analysis of occupant workspace dissatisfaction. *Building and Environment*, 205: 108270 (IF 2021: 6.92) <https://doi.org/10.1016/j.buildenv.2021.108270>
- Liang R, **Kent MG**, Wilson R and Wu Y, 2021. The effect of thermochromic windows on visual performance and sustained attention. *Energy and Buildings*, 110778 (IF 2021: 7.13) <https://doi.org/10.1016/j.enbuild.2021.110778>
- **Kent MG** and Schiavon S, 2020. Evaluation of the effect of landscape distance seen in window views on visual satisfaction. *Building and Environment*, 183: 107160 (IF 2020: 6.456) <https://doi.org/10.1016/j.buildenv.2020.107160>
- Fotios S and **Kent MG**, 2020. Measuring discomfort from glare: Recommendations for good practice. *LEUKOS: The Journal of the Illuminating Engineering Society*, 17(4): 338-358 (IF 2020: 3.389) <https://doi.org/10.1080/15502724.2020.1803082>
- **Kent MG**, Cheung TC, Li J and Schiavon S, 2020. Experimental evaluation of visual flicker caused by ceiling fans. *Building and Environment*, 182: 107060 (IF 2020: 6.456) <https://doi.org/10.1016/j.buildenv.2020.107060>
- Abd-Alhamid F, **Kent MG**, Calautit J and Wu Y, 2020. Evaluating the impact of viewing location on view perception using a virtual environment. *Building and Environment*, 180: 106932 (IF 2020: 6.456) <https://doi.org/10.1016/j.buildenv.2020.106932>

- **Kent MG**, Schiavon S and Jakubiec JA, 2020. A dimensionality reduction method to select the most representative daylight illuminance distributions. *Journal of Building Performance Simulation*, 13(1), 122-135 (IF 2020: 2.957) <https://doi.org/10.1080/19401493.2019.1711456>
- Molina C, **Kent MG**, Hall I and Jones B, 2020. A data analysis of the Chilean housing stock and the development of modelling archetypes. *Energy and Buildings*, 206: 109568 (IF 2020: 5.879) <https://doi.org/10.1016/j.enbuild.2019.109568>
- Abd-Alhamid F, **Kent MG**, Bennett C, Calautit J and Wu Y, 2019. Developing an innovative method for visual perception evaluation in a physical-based virtual environment. *Building and Environment*, 162: 106278 (IF 2019: 4.971) <https://doi.org/10.1016/j.buildenv.2019.106278>
- **Kent MG** and Fotios S, 2019. The effect of a pre-trial range demonstration on subjective evaluations using category rating of discomfort due to glare. *LEUKOS: The Journal of the Illuminating Engineering Society*, 17(1): 43-58 (IF 2019: 2.667) <https://doi.org/10.1080/15502724.2019.1631177>
- **Kent MG**, Fotios S and Cheung T, 2019. Stimulus range bias leads to different settings when using luminance adjustment to evaluate discomfort due to glare. *Building and Environment*, 153: 281-287 (IF 2019: 4.971) <https://doi.org/10.1016/j.buildenv.2018.12.061>
- Altomonte S, Schiavon S, **Kent MG** and Brager G, 2019. Indoor environmental quality and occupant satisfaction in green-certified buildings. *Building Research and Information*, 47(3): 255-274 (IF 2019: 3.887) <https://doi.org/10.1080/09613218.2018.1383715>
- **Kent MG**, Fotios S and Altomonte S, 2019. An experimental study on the effect of visual tasks on discomfort due to peripheral glare. *LEUKOS: The Journal of the Illuminating Engineering Society*, 15(1), 17-28 (IF 2019: 2.667) <https://doi.org/10.1080/15502724.2018.1489282>
- Liang R, **Kent MG**, Wilson R and Wu Y, 2019. Development of experimental methods for quantifying the human response to chromatic glazing. *Building and Environment*, 147: 199-210 (IF 2019: 4.971) <https://doi.org/10.1016/j.buildenv.2018.09.044>
- **Kent MG**, Fotios S and Altomonte S, 2019. The influence of anchor bias in luminance adjustments. *Lighting Research and Technology*, 51(1): 131-146 (IF 2019: 2.226) <https://doi.org/10.1177/1477153517734280>
- **Kent MG**, Cheung TC, Altomonte S, Schiavon S and Lipczyńska A, 2018. A Bayesian method of evaluating discomfort due to glare: The effect of order bias from a large glare source. *Building and Environment*, 146: 258-267 (IF 2018: 4.82) <https://doi.org/10.1016/j.buildenv.2018.10.005>
- **Kent MG**, Fotios S and Altomonte S, 2018. Order effects when using Hopkinson's multiple criterion scale of discomfort due to glare. *Building and Environment*, 136: 54-61 (IF 2018: 4.82) <https://doi.org/10.1016/j.buildenv.2018.03.022>
- Altomonte S, Saadouni S, **Kent MG** and Schiavon S, 2017. Satisfaction with indoor environmental quality in BREEAM and non-BREEAM certified office buildings. *Architectural Science Review*, 60 (4), 343-355 (IF 2017: 1.77) <https://doi.org/10.1080/00038628.2017.1336983>
- **Kent MG**, Altomonte S, Wilson R and Tregenza PR, 2017. Temporal effects on glare response from daylight. *Building and Environment*, 113, 49-64 (IF 2017: 4.539) <https://doi.org/10.1016/j.buildenv.2016.09.002>

- **Kent MG**, Altomonte S, Tregenza PR and Wilson R, 2016. Temporal variables and personal factors in glare sensation. *Lighting Research and Technology*, 48(6): 689-710 (IF 2016: 1.784) <https://doi.org/10.1177/1477153515578310>
- Altomonte S, **Kent MG**, Tregenza PR and Wilson R, 2016. Visual task difficulty and temporal influences in glare response. *Building and Environment*, 95: 209-226 (IF 2016: 4.053) <https://doi.org/10.1016/j.buildenv.2015.09.021>
- **Kent MG**, Altomonte S, Wilson R and Tregenza PR, 2015. Discomfort glare and time of day. *Lighting Research and Technology*, 47(6): 641-657 (IF 2015: 1.667) <https://doi.org/10.1177/1477153514547291>

#### **Public Talks at International and/or Professional Events**

- **Kent MG** and Menchefski J, 2023. Better buildings for humans: Daylight, view, & building design for architecture & construction. Advanced Glazings Ltd. <https://www.youtube.com/watch?v=VR9CLT9VhdY>
- **Kent MG**, 2022. Implementing an approach to measure annual daylight illuminance distributions. Radiance Workshop. Toronto (Canada), 5 August, 2022. [https://www.radiance-online.org/community/workshops/2022-toronto-canada/slides/day3/07\\_Kent.pdf](https://www.radiance-online.org/community/workshops/2022-toronto-canada/slides/day3/07_Kent.pdf)
- **Kent MG** and Ko W, 2022. Window View Quality: design, research, and application. Brazilian Society of Light and Illumination (SBLuz). São Paulo (Brazil), 6 July, 2022. <https://www.youtube.com/watch?v=dP4xA1GM9OA>
- **Kent MG** and Ko W, 2022. Window view quality: Why it is important and what we should do. CIBSE Daylighting Group. London (United Kingdom), 2 March, 2022.
- **Kent MG**, 2021. Influence of window view landscape distance effects on visual satisfaction. Symposium on Research and Design Practice Related to Window Views. 13 Oct, 2021, University of California, Berkeley. <https://www.youtube.com/watch?v=ErBlwU3ca0>
- **Kent MG**. Methodological and analytical biases identified in studies of glare due to discomfort. CIE expert tutorial and workshop on research methods for human factors in lighting. Copenhagen (Denmark), 13-14, August, 2018.
- **Kent MG**. Uncertainties in discomfort glare evaluation. IEA SHC Task 61/ EBC Annex 77, Lund (Sweden), 28 February - 2, March, 2018.
- **Kent MG**, Altomonte S, Wilson R and Tregenza PR. Temporal variability on discomfort glare from daylight. Velux Daylight Symposium, Berlin (Germany), 3-4, May, 2017: [https://www.youtube.com/watch?v=xCF5K\\_AC-4Y](https://www.youtube.com/watch?v=xCF5K_AC-4Y)
- **Kent MG**. Temporal influences on glare response. CIBSE Daylighting Group. London (United Kingdom), 19 October, 2016: <https://www.youtube.com/watch?v=kU2N3eyfJtA>
- **Kent MG**. Time of the day, temporal and personal variables and task difficulty in the subjective evaluation of glare sensation. Velux Daylight Academic Forum, London (United Kingdom), 4-5, September, 2015: <https://www.youtube.com/watch?v=kN-if-NHQhI>

#### **Accepted Conferences and Symposia Papers (not main presenter)**

- Jakubiec JA, **Kent MG**, Kong Z and Talami R, 2021. Can the results of laboratory studies of occupant lighting experience be applied in the field? A controlled case study comparison. Building Simulation 2021 Conference.
- **Kent MG**, Fotios S and Altomonte S, 2018. Experimental biases in discomfort glare evaluations. In: 34th International Conference on Passive and Low Energy Architecture (PLEA). PLEA 2018, 10-12 Dec 2018 Hong Kong (best paper award).
- Molina C, Jones B, **Kent MG** and Hall IP. A stochastic approach to estimate uncertainty in pollutant concentrations in an archetypal Chilean house. 39th AIVC - 7th TightVent & 5th Venticool Conference, Antibes Juan-Les-Pins (France), 18-19, September, 2018.
- Abdelwahab S, **Kent MG**, Rutherford P and Altomonte S. Sensitivity analysis for energy modelling based on daylight simulations. International Conference for Sustainable Design of the Built Environment, London (United Kingdom), 12-13, September, 2018.
- Abdelwahab S, **Kent MG** and Altomonte S. Sensitivity analysis for the daylight simulation of complex façades. Advanced Building Skins, Bern (Switzerland), 2-3, October, 2017.
- **Kent MG**, Altomonte S and Fotios S. Using adjustment to evaluate discomfort glare. Lux Europa, Ljubljana (Slovenia), 18-20, September, 2017.
- Molina C, Jones B, **Kent MG** and Hall IP. The development of archetypes to represent the Chilean Housing Stock. The 38th AIVC Conference: Ventilating healthy low-energy buildings, Nottingham (United Kingdom), 13-14, September, 2017.
- Altomonte S, Schiavon S, **Kent MG** and Brager G. Indoor environmental quality and occupant satisfaction in green-certified buildings. Passive Low Energy Architecture (PLEA) Conference, Edinburgh (United Kingdom), 2-5, July, 2017.
- Altomonte S, **Kent MG**, Tregenza PR and Wilson. Task difficulty, temporal variables and glare response. Passive Low Energy Architecture (PLEA) Conference, Los Angeles (United States), 11-13, July, 2016.
- **Kent MG**, Altomonte S, Tregenza PR and Wilson R. Time of day, temporal variables and personal factors in the subjective evaluation of glare sensation. Passive Low Energy and Architecture (PLEA) Conference, Bologna (Italy), 9-11, September, 2015.