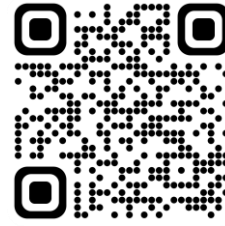


# Curriculum Vitae

**Name:** [Prashant Anand](#)

**Current position:** Assistant Professor  
Department of Architecture & Regional Planning,  
IIT Kharagpur, India

**Contact:** [ar.prashantanand@gmail.com](mailto:ar.prashantanand@gmail.com),  
[prashantanand@arp.iitkgp.ac.in](mailto:prashantanand@arp.iitkgp.ac.in)



## Research areas:

- Energy and Buildings
- Indoor Air Quality & Thermal Comfort
- Building to Urban Data Science
- Building Tech. & Construction Management
- BIM to BEM - Digital Twin

## Academic Qualifications:

- Ph.D. in Built Environment from the **National University of Singapore (NUS), Singapore**
- M.Tech. (Civil Engineering) in Building Technology and Construction management from the **Indian Institute of Technology (IIT) Madras, Chennai, India**
- Bachelor of Architecture from the **National Institute of Technology (NIT) Patna, India**

## Editorial Experience:

- March 2023 to Present - Early Career Board Member of **Energy and Buildings (ENB)**, a journal published by **Elsevier**.
- March 2023 to Present - Series Associate Editor for World Scientific Series on the Built Environment, **World Scientific Publishing Co Pte Ltd.**

## Research Group at ARP Department:

AI & Human-Building Interaction Lab

## Academic and Industry Experience:

**7 years** of experience worked in both national and international settings, both in industry and academia.

## Current Research Projects:

Sl. no	Funding Organisation	Title	Approved budget	Role
1	DST, Govt. of India and OeAD Austria	Configuration and testing of smart occupant-centric thermal and indoor air quality controls in buildings	Travel Grant	PI
2	SERB, Govt. of India	Centre of Excellence on Energy Aware Urban Infrastructure	17.8 Crore (INR)	Co-PI
3	ISIRD, IIT Kgp, India	A Novel, Smart, Eco-Friendly and Modular Window System	28 Lakhs (INR)	PI

## Selected Scientific Journal Publications (Published):

1. K. Panicker, **P. Anand**, A. George, (2023) Assessment of Building Energy Performance Integrated with Solar PV: Towards a Net Zero Energy Residential Campus in India, **Energy and Buildings**, 2023, 112736.

# Curriculum Vitae

2. B. Ning, C. Sekhar, S. Schiavon, KW. Tham, D. Cheong, H. Jia, **P. Anand**, (2023) Experimental and simulation assessment of an adaptable cooling coil in the tropics, *Journal of Building Engineering*, Volume 64, 2023, 105681
3. A. N. Nair, **P. Anand**, A. George, N. Mondal, (2022) A review of strategies and their effectiveness in reducing indoor airborne transmission and improving indoor air quality, *Environmental Research*, Volume 213, 2022, 113579.
4. **P. Anand**, Cheong D., Sekhar C. (2022). A review of occupancy-based building energy and IEQ controls and its future post-COVID, Volume 804, *Science of The Total Environment*, p. 150249
5. **P. Anand**, Deb C., Yan K., Yang J., Cheong D., Sekhar C. (2021). Occupancy-based energy consumption modelling using machine learning algorithms for institutional buildings, Volume 252, *Energy & Buildings*, p. 111478
6. **Tham KW**, Parshetti GK, Anand P, Cheong D, Sekhar C (2020) Performance and characterization of Fan Filter Unit (FFU) in mitigating Particulate Matter levels in naturally ventilated classrooms in haze conditions. *Indoor Air*, 2020
7. **P Anand**, D Cheong, C Sekhar, M Santamouris, S Kondepudi (2019) Energy saving estimation for plug and lighting load using occupancy analysis. *Renewable Energy* 143, 1143-1161.
8. **P Anand**, C Sekhar, D Cheong, M Santamouris, S Kondepudi (2019) Occupancy-based zone-level VAV system control implications on thermal comfort, ventilation, indoor air quality and building energy efficiency. *Energy and Building* 204, 109473.
9. **P Anand**, D Cheong, C Sekhar (2019) Computation of zone-level ventilation requirement based on actual occupancy, plug and lighting load information. Special Issue – New Building Ventilation Technologies, *Indoor and Built Environment* 1-17.
10. Sekhar C, **Anand P**, Schiavon S, Tham KW, Cheong D, Saber EM (2018). Adaptable cooling coil performance during part loads in the tropics – a computational evaluation. *Energy and Building* 159: 148–163.
11. **P Anand**, C Deb, R Alur (2017) A simplified tool for building layout design based on thermal comfort simulations. *Frontiers of Architectural Research* 6 (2), 218-230.

## Service rendered to other Institutions and Organizations:

- Guest editor for the special issue on “Strategies for improving urban livability”. This is a special issue of *Frontiers in Sustainable Cities*. This special issue belongs to the section “Sustainable Infrastructure”.
- ISIAQ Europe - Member (Oct 2019 - continued)
- ASHRAE India - Member (Dec 2020 - Continued)
- ASHRAE Singapore - Associate Member - (June 2019 - Dec 2020)
- IBPSA Singapore - Executive committee member - (June 2018 - Dec 2020)
- ASHRAE Singapore - Student President NUS Singapore Chapter (June 2015 – Jul 2019)
- BRSNet NUS Singapore - President (June 2016 - May 2017)
- Expert member at the International Conference ICONBEST 2021 organized by School of Architecture and Interior Design of SRM University from 20th to 21st February 2021.
- Guest editor for the special issue on “Building Energy Codes and Greenhouse Gas Mitigation” Details: This is a special issue of *Atmosphere* (ISSN 2073-4433).
- International scientific committee member of the 17th International Conference of the International Society of Indoor Air Quality & Climate, INDOOR AIR 2022 Conference, June 12th to 16th Kuopio, Finland.