National Science Foundation Alexander Schwarzkopf Prize "for exemplary research contribution to technology innovation and its positive impact on industry and the

society as a whole".





Center for Building Performance & Diagnostics (CBPD)

Research and graduate education focused on innovations in high performance buildings and infrastructures, building performance simulation, building data analytics, policy and economics, and indoor environmental quality for improving a shared quality of life and a sustainable future.

10 Faculty + Visiting Scholars

25 students 2021 Over 300 MS & PhD since 1980 + DDes

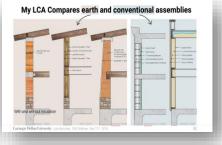
MS & PhD in Building Performance & Diagnostics

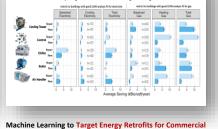
Oldest PhD in Building Science in the U.S.

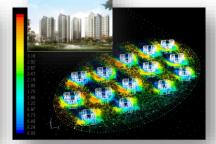
- 1. Guidelines and Design Innovations for High Performance Buildings & Communities
- 2. Indoor Environmental Quality for Human Health & Productivity (with POE+M)
- 3. Innovations in Building Controls (with Testbeds) - Humans and Nature in the Loop
- 4. Advances in **Simulation** for High Performance **Buildings and Sustainable Cities**
- 5. Building and Urban Data Analytics for Advancing a Sustainable Built Environment
- 6. Policies and Economics for Advancing High Performance Buildings & Communities













Earthen Building: Perception, Environmental LCA, and Policy Analysis Ben Alon 2020

Advanced Building Thermal Simulation Coupling of Finite Volume Method and Nodal System Zhang 2011

Buildings under Alternative Climate Change Scenarios Xu 2020