Jin PAN

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Education and Qualifications

July 2013-Present

4rd year undergraduate, Department of Building Science, School of Architecture, Tsinghua University, Beijing, China

- Scholarships: Academic excellence award at Tsinghua University (2016), Excellence in Science and Technology Innovation Award at Tsinghua University (2015), Academic Improvement Award (2015)
- Relevant courses: Heat and mass transfer, Engineering thermodynamics, Fluid Mechanics, Indoor air pollution control, HVAC &Cooling/Heating Control, and basic math knowledge.
- GPA: 88/100. Ranking 4th place out of 30 members in the junior year.

Academic Projects and Achievements

An electrostatic-enhanced filtration system integrated with residential building envelope

March 2015-Present

Supervisor: Dr. Jinhan Mo, Assoc. Professor, Dept. of Building Science, Tsinghua Univ.

- As student team leader, developed an integrated filtration system including an electrostatic enhanced filter to reduce indoor pollution, the consumption of energy and building materials. A prototype of the system has been manufactured and experimentally validated.
- As first author, finished one China invention patent (No. 201510827132.6).
- As first author, finished one international conference paper to IAQVEC2016, Korea (Paper ID: 1166) and did the oral presentation. Ranking 6th of all papers.
- Won the **Grand Prize in the China National University Student Science Contest on Energy Saving & Emission Reduction**, August 2015 (only 9 winners out of 2534 participant groups)
- Rated as Excellence in Training program of Innovation and Entrepreneurship for Undergraduate at Tsinghua University (Program number: 201510003002) (2015).

Biological particle adhesion to indoor surfaces: a literature review August 2016-Present

Supervisor: Dr. Brandon Boor, Assistant Professor, Dept. of Civil Engineering, Purdue Univ.

- Visited Dr. Boor's lab from Aug. to Sep. 2016, funded by Tsinghua Top Open Program.
- As first author, working on the comprehensive literature review on the adhesion of biological particles to indoor surfaces, an important, yet overlooked, topic in the field of indoor air quality, connecting fundamental information from different papers to draw new conclusions.
- Finished one poster to Herrick IAC conference at Purdue University.

Computers & Technical skills

- Languages: Mandarin (Native); English (Fluent, TOEFL 103/120)
- Software: C/C++, Microsoft office, MATLAB, Auto CAD, PHOENICS VR 2009
- Interests: Reading, Running, Drawing.