

# Dani Liu

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## Education

### Drexel University

2014 - (GPA: 3.9/4)

P.H.D Candidate in Mechanical Engineering and Mechanics

Research Topic: Direct numerical simulation and Multi-scale Analysis for Knitted Functional Fabrics.

### Beihang University

2008-2011(GPA: 3.5/4)

M.S in Engineering and Thermophysics.

Research Thesis: Topology Optimization and Structural Efficiency Evaluation of Plate and Shell Structures.

### Beihang University

2004-2008 (GPA: 3.4/4)

B.S in Thermal Energy and Power Engineering.

Research Thesis: Blade Optimization of Micro-axial Pump.

## Experience

### Drexel University

2014 - (Teaching & Research Assistant)

Statics, Thermodynamics, Experimental Mechanics

### Shanghai SAIFEI Aviation EWIS Manufacturing Co. Ltd.

2013-2014 (Team Leader of Stress Analysis)

In charge of static, dynamic, fatigue analysis for EWIS (Electrical Wiring Interconnection System).

### AVIC Commercial Aircraft Engine Co. Ltd.

2011-2013 (Structural Analysis Engineer)

Conducted static, dynamic, fatigue and damage tolerance analysis of engine mount and other external structures; Designed static experiment for engine mount.

## Patents and Publication (CHINA)

First Author: An attachment between turbo fan aero-engine with high-bypass ratio and aircraft. Patent No. 201210461601.3.

Fourth Author: Components used to lock and release the cabin door. Patent No. 201220285683.6.

First Author: "Preliminary research on structural dynamical design based on evolutionary structural optimization method", Journal of Aerospace power, 2011, 26 (8): 1860-1865.

## Skills

**FEA and Mesh software:** ABAQUS, NASTRAN, ANSYS, HYPERMESH, PATRAN;

**CAD software:** UG NX, Auto CAD;

**Other:** Matlab, Origin;

**Programming language:** C, VBA, Fortran, Python and APDL.