# Xiaoji Yang

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## *Education*

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|---|---|---|---|
| Exp. 09/2002 | **Ph.D** | **Northeastern University, Boston, MA**<br>Major: Electrical and Computer Engineering<br>Area: Electronic Circuits, Solid State Devices and Microfabrication | **(GPA 3.7/4.0)** |
| 01/1996 | **M.S** | **Tsinghua University, Beijing, China**<br>Major: Electronic Engineering<br>Area: Physical Electronics and Optoelectronics | **(GPA 3.8/4.0)** |
| 07/1993 | **B.S** | **Tsinghua University, Beijing, China**<br>Major: Electronic Engineering<br>Area: Physical Electronics and Optoelectronics | **(GPA 3.8/4.0)** |

## *Experiences*

1999 to Present **Northeastern University, Boston, MA**
**Research Assistant**

- Research on **plasma etching** of Cesium iodide (CsI) for X-ray imaging sensors
- Research on **plasma diagnostics**, such as optical emission spectroscopy and mass spectroscopy
- Measuring wafer temperature in plasma with interferometroy method
- Construct a model to explain the mechanism of plasma etching of CsI
  (The project is sponsored by NIH and RMD inc.)

1993 to 1999 **Tsinghua University, Beijing, China**

**Lecturer** (1996 to 1999) **Research Assistant** (1993 to 1996)

- Conducted research on composite **thin film** of **Low-e coatings** (Energy saving coatings)
  (The program is sponsored by the National "9·5" Plan)
- Conducted research on the **spectral selective films** for solar energy conversion
  (The program is sponsored by the National "8·5" Plan)
- Designed a circuit for capacitance manometer for measuring vacuum
- Taught undergraduate student course "Thin Film Physics and Technology".

## *Technical Skills*

- Strong background in **plasma etching, deposition, diagnostics and vacuum technologies**
- In-depth knowledge on solid state device physics
- Familiar with integrated circuit (IC) fabrication procedures

## *Computer Skill & CAD Tools*

- Proficient with **UNIX, Windows/Windows NT, DOS** platforms
- **Computer languages**: C/C++, FORTRAN, VB
- **CAD Tools**: MATLAB, VHDL, Hspice, Synopsys, TSUPREM

## *Major Courses*

Solid State Devices (I, II)
High Speed/High Frequency Solid State Devices (III-V Semiconductors)
**Integrated Circuits** Fabrication (I, II), **Plasma Processing**
Microelectromechanical Systems (**MEMS**)
**VLSI Design**
Digital System Design with Hardware Description Language (**VHDL**)
**Digital Hardware Synthesis**
**Electronic Circuit** for Analog Signal Processing
Electromagnetic Theory (I,II)