

## 联系方式

[www.linkedin.com/in/xu-guo-480018117](http://www.linkedin.com/in/xu-guo-480018117) (LinkedIn)

## 热门技能

Computer Vision  
Fiber Optics  
Sensors

## Languages

Chinese (Mandarin) (Native or Bilingual)  
English (Full Professional)

## Certifications

Machine Learning  
Doctor of Philosophy in Electrical Engineering

## Publications

Highly Sensitive Miniature All-Silica Fiber Tip Fabry-Perot Pressure Sensor

Benchtop experiments of an ultrasound fiber optic temperature measurement system for atrial fibrillation ablation procedures

Validation of an ultrasound transducer's generation and receiving function on one single-mode fiber

Ultrasound generation from a side-polished optical fiber

Ultrasound generation from side wall of optical fibers

# Xu Guo

Optical Sensing/Machine Vision  
美国 北卡罗来纳州 希科里

## 个人简介

Electrical Engineering Ph.D. with research experiences on fiber optical sensors design and fabrication, and industrial experiences on optical sensing, data analysis and imaging processing.

## 工作经历

Corning Incorporated  
Optical Measurements Engineer  
2021 年 8 月 - Present (1 年 9 个月)  
Corning, New York, United States

- Work with a variety of cross functional groups (Development, Quality, IT, Purchasing, Operations) to define, develop and implement optics-based measurement and instrumentation systems.
- Transfer technology from early-stage development to a product suitable for robust use in manufacturing.
- Leverage external suppliers for key technologies or core competencies such as system integration.
- Define Scopes of Work, competitively quote when appropriate, issue Purchase Orders, track supplier work and approve invoices.
- Design experiments and analyze data to identify and implement improvements to measurement systems or production processes.
- Create/update documentation for release to production including Machine Specifications; operating procedures and drawing packages.
- Train engineering, maintenance and operations people how to use and maintain measurement systems.
- Provide remote and onsite troubleshooting using data and performance analysis of the installed systems.

## CGG

Seismic Imaging Analyst  
2020 年 7 月 - 2021 年 6 月 (1 年)  
Houston, Texas, United States

- Conducted input SEG-Y data quality control before imaging, unifying data sampling rate, formatting from different surveys, investigating and disposing problematic data.
- Studied and applied specific denoise methods for noise from different sources and explored proper processing parameters to eliminate noise, without causing hurts to primary geological data.
- Cooperated with team members to provide analysis and recommendations for supervisors to make judgment calls on the data processing procedures.
- Presented in weekly meetings to keep clients updated and made prompt replies to their concerns.

## University of Massachusetts Lowell

### Research & Teaching Assistant

2015 年 9 月 - 2020 年 5 月 (4 年 9 个月)

Lowell MA

#### Research Assistant

- Worked on design, fabrication and testing of novel optic sensors using multiple machining methods to meet the requirements of sponsors for industrial and biomedical applications.
- Pioneered numerous projects sponsored by the National Science Foundation (NSF), U.S. Army, the Department of Energy, the Department of Transportation and Advanced Functional Fabrics of America.
- Calibrated strain/pressure/temperature sensing systems in lab environments and industrial/clinical field tests to validate their high sensitivity, strong survivability and fast response.

#### Teaching Assistant

- Assessed student assignments and monitored student recommendations to aid professors in enhancing teaching methods.
- Instructed students on the correct use of equipment in Radiofrequency Design and Antenna Theory labs and tutored them in writing lab reports.

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## 教育经历

### University of Massachusetts Lowell

PhD, Electrical Engineering · (2015 - 2020)

### Georgia Institute of Technology

Master of Science - MS, Computer Science · (2021 年 1 月 - 2023 年 12 月)

