



# AARON J. PUNG

## Experience

### Electromagnetic Analyst (2017 – Present)

- Proficient in electromagnetic (EM) coupling and shielding effectiveness analysis.
- EM lead for complex weapon architectures.
- Developing micro-photonic structures to assess and demonstrate the limitations of newly developed fabrication techniques.
- Providing verification, validation, and error analysis for a variety of internal radar cross-section (RCS) and EM simulation codes.

### Optical Engineer (2015 – 2017)

- Designed chemically sensitive resonators for remote sensing and detection applications.
- Developed source-to-sensor radiometry models for detection probability analysis.
- Hyperspectral transient scene reconstruction and estimation for ground-, water-, and space-based events.

## Education

Ph.D., Optical Engineering  
Clemson University

M.S., Optical Engineering  
University of North Carolina at Charlotte

B.S., Physics  
Kansas State University

## Publications

A. Pung et al., "Parametric Analysis of Vertically Oriented Metamaterials for Wideband Omnidirectional Perfect Absorption", 2018.

[Full list available upon request]

## ABOUT ME


Professionally, my interests lie in micro-photonics, hyperspectral analysis, and explosion diagnostics.


Currently, my work at Sandia National Laboratories is focused on Radar Cross Section verification, validation, and error analysis. I possess a DOE Q clearance.

In my free time, I enjoy flying, SCUBA diving, hiking, and volunteering.


## SKILLSET

Electromagnetic design 

Hyperspectral analysis 

Radiometry 

V&V, error analysis 

Programming 

## CONTACT

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