



AARON J. PUNG

Experience

Sandia National Laboratories 2015-Present

- Sub-pixel target detection and background estimation
- Geo-location and geo-spatial data interpolation
- Hyperspectral analysis, image registration, and pixel detection
- Source-to-sensor radiometric model development for probability detection analysis
- Electromagnetic coupling and shielding effectiveness analysis
- Micro-resonator characterization and sensor development.
- Verification, validation, and error analysis of next-generation electromagnetic modeling codes
- Transient thermo-optical detonation modeling

WEBSITE


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CONTACT

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PROGRAMMING

Python 

C++ 

MATLAB 

ABOUT ME

I am fascinated by hyperspectral imaging, remote sensing, and micro-photonics.

Currently, my work focuses on background estimation characterization and sub-pixel target detection. I hold a (DOE) Q and Sigma-15 clearance.

I am active in the antenna, optics, and remote sensing communities, along with being an active member of several volunteer organizations. Outside of work, my hobbies include flying, SCUBA diving, and hiking.

Education

Ph.D., Optical Engineering 2014
Clemson University

B.S., Physics 2008
Kansas State University

Publications

Pung, A.J.; Goldflam, M.D.; Burckel, D.B.; Brener, I.; Sinclair, M.B.; Campione, S. Enhancing Absorption Bandwidth through Vertically Oriented Metamaterials. Appl. Sci. 2019, 9, 2223.

Publications: 32 Citations: 148

[Full list available on website]