CHRISTOPHER ROBERTSON

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EDUCATION

SEPT 2003 - JUNE 2007
B.S. PHYSICS, UNIVERSITY OF THE PACIFIC

SEPT 2009 - JUNE 2015
UNIVERSITY OF CALIFORNIA, DAVIS

Lee, C., Robertson, C., Nguyen, A. *et al.* Thickness of a metallic film, in addition to its roughness, plays a significant role in SERS activity. *Sci Rep* **5,** 11644 (2015).
https://doi.org/10.1038/srep1164

Lee C, Carney RP, Hazari S, Smith ZJ, Knudson A, Robertson CS, Lam KS, Wachsmann-Hogiu S. 3D plasmonic nanobowl platform for the study of exosomes in solution. Nanoscale. 2015;7(20):9290-7. doi: 10.1039/c5nr01333j. Epub 2015 May 5. PMID: 25939587.

TEACHING EXPERIENCE

UNIVERSITY OF THE PACIFIC – HEAD TA OF THE PHYSICS DEPARTMENT
Responsibilities included setting up, taking down, and preparing laboratories for lower level physics courses for the undergraduate students. Full-time instruction for evening laboratory courses without any faculty supervision. Courses included introductory physics and astronomy.

UNIVERSITY OF CALIFORNIA, DAVIS – TA APPLIED SCIENCE (DEPARTMENT CLOSED)

UNIVERSITY OF CALIFORNIA, DAVIS – TA MATHEMATICS DEPARTMENT

UNIVERSITY OF CALIFORNIA, DAVIS – TA MATERIALS SCIENCE DEPARTMENT

UNIVERSITY OF CALIFORNIA, DAVIS – TA BIOPHYSICS COURSES

RESEARCH EXPERIENCE

UNIVERSITY OF CALIFORNIA, DAVIS – APPLIED SCIENCE DEPARTMENT

Research group under Dr. Neville Luhmann studying THz waveguide fabrication and application. Experience with LIGA process for fabrication of the waveguides

UNIVERSITY OF CALIFORNIA, DAVIS – BIOPHYSICS GRADUATE GROUP

Research group under Dr. Sebastian Wachsmann Hogui studying the fabrication, characterization, and application of nano-bowl substrates using Surface Enhanced Raman Spectroscopy, UV-Vis spectroscopy, and Finite Element Method Simulations using COMSOL.

SKILLS

- Cleanroom Certified at Northern California Nanotechnology Center (NCNC)
- Technical expertise with various LIGA process machinery
- Very experienced with COMSOL and Finite Element Method (FEM) Simulations
- Knowledgeable in the fields of Plasmonics, Nanofabrication, Surface enhanced Raman Spectroscopy and Electromagnetic Simulations