

Ethan R. Peng

1587 Rancho Hills Drive
Chino Hills, CA 91709

909-680-0407
erpeng@uci.edu

Education

University of California, Irvine

B.S. in Chemistry

September 2017 – June 2021

Environmental chemistry specialization

M.S. in Materials Science and Engineering

September 2021 – Present

Research Experience

Undergraduate Research Assistant

October 2018 – June 2021

Department of Chemical Biomolecular Engineering

Research Advisor: Dr. Alon Gorodetsky

Responsibilities: express and purify cephalopod proteins using High Performance Liquid Chromatography, processing data for biochemical manuscripts using Matlab, synthesizing compounds using extraction, recrystallization, and thin layer chromatography techniques, purifying compounds with liquid and solid chromatography, processing and analyzing Carbon-13 and Hydrogen-1 nuclear magnetic resonance data using MestreNova, and writing synthetic protocols for synthesized chemicals with ChemDraw, creating supporting information for synthetic compounds, and writing the main text for manuscripts

Graduate Research Assistant

June 2021 - Present

Department of Materials Science and Engineering

Research Advisor: Dr. Alon. Gorodetsky

Responsibilities: synthesize and scale up tetrabenzoheptacenes

Skills

High Performance Liquid Chromatography, Carbon-13 and Hydrogen-1 nuclear magnetic resonance, solid chromatography, extraction, mass spectrometer, recrystallization, thin layer chromatography, titration, Fourier-transform infrared spectroscopy, LoggerPro, MestReNova, ChemDraw

Publications

Y. Lu, P. Pratakshya, A. Chatterjee, X. Jia, D. D. Ordinario, L. Phan, J. A. C. Sanchez, R. Kautz, V. Tyagi, P. Patel, Y. V. Dyke, M. K. Dao, J. Couvrette, J. P. Kerr, J. Long, A. Allevato, J. Leal-Cruz, E. Tseng, **E. R. Peng**, A. Reuter, S. Drake, F. Omenetto, A. A. Gorodetsky, “Aqueous Processing of the Conductive Cephalopod Protein Reflectin via Inkjet Printing.” *APL Mater.* **2020**, *8*, 101113.