

Taylor Canady, PhD
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Taylor Canady is an Institute for Genomic Biology Fellow at UIUC working on liquid biopsy diagnostics, molecular imaging by interferometry, and plasmonic catalysis. As an IGB Fellow, Taylor recently demonstrated a new class of “digital” resolution genomic diagnostics which integrate DNA nanotechnology with photonic crystal biosensors. Inspired by his numerous undergraduate and internship research experiences at the University of New Mexico, Tsinghua University, and Sandia National Laboratories, he selected to enter a PhD program at Carnegie Mellon University, where he studied peptide nucleic acid hybridization and gene control optimization through kinetic and thermodynamic strategic design. In recognition of CMU and outreach, Dr. Canady was awarded the McWilliams Fellowship and the Carnegie Science Award, respectively. Looking ahead, Taylor aspires to become an academic whose research program integrates photonic and molecular materials to enable high resolution genomic diagnostics, mass photometry, plasmonic catalysis, and nucleic acid programmable materials.