

Ted Sanders

tedsanders@stanford.edu • 971 227 8356 • 212 Pine Hill Court #301 • Stanford, CA 94305

OBJECTIVE

To work with smart people on challenging problems

EDUCATION

PhD Applied Physics; Stanford University (3.6/4.0) *est. 2016*
MS Applied Science & Technology; UC Berkeley (3.7/4.0) *2012*
BA,BS Economics-Mathematics, Engineering Physics; UC San Diego (3.8/4.0) *2010*

WORK

Stanford University/UC Berkeley, Graduate Student Researcher *2010 - Present*
• Synthesized complex-oxide crystals used to build a SketchFET, the world's very first nanoscale, GHz-speed writeable transistor (for applications in high-speed molecular sensing)
• Helped lead rebuild of cutting-edge physics laboratory worth several million dollars

San Diego Gas & Electric (#1 UtiliQ Ranking), Smart Grid Researcher *Summer 2009*
• Led team that authored a 136-page research report on the financial and technical challenges of integrating large amounts of distributed solar power into the grid

Nanoscale Characterization and Devices Lab, Calit2 Summer Scholar *Summer 2008*
• Modeled nanowire/quantum-well solar cells that beat Shockley-Queisser 34% efficiency limit

General Atomics – Electronic Systems Inc., Engineering Intern *Summer 2007*
• Single-handedly designed an automated capacitor test station that saved labor costs, sped up production, and provided data to process engineers

LEADERSHIP

Co-host of science/comedy podcast Goggles Optional (30,000+ downloads, iTunes-featured)
Co-founder of Materials Research Seminar Series at UC Berkeley
Columnist for MRS Bulletin, the world's number one magazine for materials science
Blogger on behalf of Materials Research Society
Author and editor on Wikipedia as part of WikiProject Physics and WikiProject Economics
Teacher for educational pilot of Foldscope (<\$1, 140x mag. microscope demoed at TED in 2012)
Volunteer for Maker Faire, Science Bowl, Science Bus, SF Science Fair, Synopsis Sci. & Tech. Championship, Bay Area Science Festival, Dinner with a Scientist (feat. by White House), Techbridge Girls, Boys & Girls Club of America, Bay Area Science In Schools (lead lecturer), Engineers Week, Stanford SPLASH (course co-designed with bridge Women's World Champion)

AWARDS

NSF Graduate Fellow (\$100k+ award)	1 st Place SciCast Technology Forecasting Comp.
Jacobs Scholar (\$100k+ full ride to college)	1 st Place Hypermind NGDP Futures Trader
Gordon Scholar (for engineering leadership)	1 st Place ECE Senior Design Project Presentation
Regents Scholar (for academic excellence)	1 st Place IEEE SW Student Ethics Competition
Calit2 Scholar (for 2008 summer research)	1 st Place Cal IEEE Computer Security Challenge
ACBL Scholar	1 st Place Oregon High School Chess Team (Capt.)
Award for Excellence in Joint Mathematics-Economics (awarded to one outstanding graduate)	