

Ted Sanders

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OBJECTIVE

To work with smart people on hard problems that matter

EDUCATION

PhD Applied Physics; Stanford University *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 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 136-page research report on financial and technical challenges of integrating large amounts of distributed solar power into the grid
• Presented summary of strategy recommendations to executive management

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*
• Built and programmed electronic test station that improved quality control, cut labor costs, sped up production, and provided data to process engineers

LEADERSHIP

Co-host of science/comedy podcast Goggles Optional (40,000+ downloads, nat'l award finalist)
Columnist for MRS Bulletin, the world's #1 magazine for materials science (16,000+ circulation)
Co-founder of Materials Research Seminar Series at UC Berkeley (recruited, marketed speakers)
Blogger on behalf of Materials Research Society (emailed out daily to 5,000+ attendees)
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 Science & Tech. Championship, Bay Area Science Festival, Dinner with a Scientist (featured by White House), Techbridge Girls, Boys & Girls Club of America, Bay Area Science In Schools (lead lecturer), Engineers Week, Stanford SPLASH (bridge course co-designed with 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 (for contract bridge)	1 st Place Oregon High School Chess Team (Capt.)
Award for Excellence in Joint Mathematics-Economics (awarded to single outstanding graduate)	